



Full wwPDB EM Validation Report ⓘ

Sep 10, 2025 – 08:31 PM JST

PDB ID : 8J07 / pdb_00008j07
EMDB ID : EMD-35888
Title : 96nm repeat of human respiratory doublet microtubule and associated axone-mal complexes
Authors : Gui, M.; Brown, A.
Deposited on : 2023-04-09
Resolution : 4.10 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev126
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : **FAILED**
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 Å.

There are no overall percentile quality scores available for this entry.

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition [i](#)

There are 109 unique types of molecules in this entry. The entry contains 3163608 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Dynein regulatory complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	478	Total	C	N	O	S	0	0
			3952	2457	723	755	17		
1	4	459	Total	C	N	O	S	0	0
			3831	2381	702	731	17		

- Molecule 2 is a protein called Dynein regulatory complex protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	540	Total	C	N	O	S	0	0
			4537	2883	782	856	16		

- Molecule 3 is a protein called Dynein regulatory complex protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	10	346	Total	C	N	O	S	0	0
			2851	1772	519	546	14		

- Molecule 4 is a protein called Dynein regulatory complex protein 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	11	616	Total	C	N	O	S	0	0
			4998	3226	858	890	24		

- Molecule 5 is a protein called Dynein regulatory complex protein 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	12	118	Total	C	N	O	S	0	0
			961	610	161	186	4		
5	13	138	Total	C	N	O	S	0	0
			1128	717	190	216	5		
5	14	140	Total	C	N	O	S	0	0
			1143	725	195	218	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	8	124	Total	C	N	O	S	0	0
			1009	644	167	194	4		

- Molecule 6 is a protein called EF-hand domain-containing family member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	1A	523	Total	C	N	O	S	0	0
			4234	2686	744	789	15		
6	1B	554	Total	C	N	O	S	0	0
			4483	2850	787	830	16		
6	1C	90	Total	C	N	O	S	0	0
			729	477	129	121	2		

- Molecule 7 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	1D	46	Total	C	N	O	S	0	0
			385	243	67	74	1		
7	1E	382	Total	C	N	O	S	0	0
			3250	1975	624	632	19		
7	1F	452	Total	C	N	O	S	0	0
			3849	2336	749	744	20		
7	1G	121	Total	C	N	O	S	0	0
			1034	626	212	195	1		
7	1H	176	Total	C	N	O	S	0	0
			1491	914	283	284	10		
7	1I	456	Total	C	N	O	S	0	0
			3890	2362	756	751	21		
7	1J	332	Total	C	N	O	S	0	0
			2861	1723	568	557	13		

- Molecule 8 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	1L	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		
8	1M	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		
8	1N	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		
8	1O	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	1P	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		
8	1Q	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		

- Molecule 9 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	1R	186	Total	C	N	O	S	0	0
			1587	979	297	304	7		
9	1S	463	Total	C	N	O	S	0	0
			3926	2403	744	761	18		
9	1T	330	Total	C	N	O	S	0	0
			2794	1703	531	546	14		

- Molecule 10 is a protein called Cilia- and flagella-associated protein 95.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	1V	146	Total	C	N	O	S	0	0
			1197	757	206	230	4		
10	1W	146	Total	C	N	O	S	0	0
			1197	757	206	230	4		

- Molecule 11 is a protein called Cilia- and flagella-associated protein 107.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	1Y	174	Total	C	N	O	S	0	0
			1470	945	263	259	3		
11	1Z	173	Total	C	N	O	S	0	0
			1463	940	262	258	3		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1Y	191	PHE	LEU	conflict	UNP Q8N1D5
1Z	191	PHE	LEU	conflict	UNP Q8N1D5

- Molecule 12 is a protein called Dynein regulatory complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	2	464	Total	C	N	O	S	0	0
			3869	2435	679	740	15		

- Molecule 13 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	2A	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2B	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2C	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2D	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2E	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2F	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2G	79	Total	C	N	O	S	0	0
			600	383	109	105	3		

- Molecule 14 is a protein called Cilia- and flagella-associated protein 141.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	2I	50	Total	C	N	O	S	0	0
			423	269	75	76	3		
14	2J	50	Total	C	N	O	S	0	0
			423	269	75	76	3		

- Molecule 15 is a protein called Cilia- and flagella-associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	2L	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2M	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2N	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2O	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		

- Molecule 16 is a protein called Cilia- and flagella- associated protein 210.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	2Q	289	Total	C	N	O	S	0	0
			2505	1552	480	463	10		
16	2R	506	Total	C	N	O	S	0	0
			4289	2667	796	810	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
16	2S	265	Total	C	N	O	S	0	0
			2205	1373	400	423	9		

- Molecule 17 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	2U	112	Total	C	N	O	S	0	0
			906	568	166	171	1		
17	2V	112	Total	C	N	O	S	0	0
			906	568	166	171	1		
17	2W	112	Total	C	N	O	S	0	0
			906	568	166	171	1		
17	2X	112	Total	C	N	O	S	0	0
			906	568	166	171	1		
17	2Y	112	Total	C	N	O	S	0	0
			906	568	166	171	1		
17	2Z	112	Total	C	N	O	S	0	0
			906	568	166	171	1		

- Molecule 18 is a protein called Dynein regulatory complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	3	516	Total	C	N	O	S	0	0
			4225	2648	719	833	25		

- Molecule 19 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	3A	485	Total	C	N	O	S	0	0
			3992	2576	667	735	14		
19	3B	485	Total	C	N	O	S	0	0
			3992	2576	667	735	14		
19	3C	484	Total	C	N	O	S	0	0
			3984	2570	666	734	14		
19	3D	485	Total	C	N	O	S	0	0
			3992	2576	667	735	14		
19	3E	485	Total	C	N	O	S	0	0
			3992	2576	667	735	14		
19	3F	484	Total	C	N	O	S	0	0
			3984	2570	666	734	14		

- Molecule 20 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	3G	613	Total	C	N	O	S	0	0
			5053	3263	841	925	24		
20	3H	701	Total	C	N	O	S	0	0
			5797	3742	964	1063	28		
20	3I	702	Total	C	N	O	S	0	0
			5808	3748	968	1064	28		
20	3J	701	Total	C	N	O	S	0	0
			5797	3742	964	1063	28		
20	3K	701	Total	C	N	O	S	0	0
			5797	3742	964	1063	28		
20	3L	702	Total	C	N	O	S	0	0
			5808	3748	968	1064	28		
20	3M	687	Total	C	N	O	S	0	0
			5692	3675	944	1045	28		

- Molecule 21 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	3O	159	Total	C	N	O	S	0	0
			1304	829	227	243	5		
21	3P	248	Total	C	N	O	S	0	0
			2010	1283	348	370	9		
21	3Q	250	Total	C	N	O	S	0	0
			2023	1290	350	373	10		
21	3R	250	Total	C	N	O	S	0	0
			2023	1290	350	373	10		
21	3S	248	Total	C	N	O	S	0	0
			2010	1283	348	370	9		
21	3T	250	Total	C	N	O	S	0	0
			2023	1290	350	373	10		
21	3U	250	Total	C	N	O	S	0	0
			2023	1290	350	373	10		

- Molecule 22 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	3W	392	Total	C	N	O	S	0	0
			3353	2065	611	656	21		
22	3X	480	Total	C	N	O	S	0	0
			4115	2547	753	793	22		
22	3Y	143	Total	C	N	O	S	0	0
			1225	770	223	227	5		

- Molecule 23 is a protein called Protein FAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	4A	80	Total	C	N	O	S	0	0
			619	405	108	103	3		
23	4B	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4C	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4D	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4E	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4F	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4G	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4H	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4I	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4J	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4K	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4L	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4M	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		

- Molecule 24 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	4O	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4P	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4Q	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4R	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		

- Molecule 25 is a protein called Piercer of microtubule wall 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	4S	113	Total	C	N	O	S	0	0
			905	566	165	169	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	4T	113	Total	C	N	O	S	0	0
			905	566	165	169	5		

- Molecule 26 is a protein called Piercer of microtubule wall 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	4U	94	Total	C	N	O	S	0	0
			750	478	127	139	6		
26	4V	94	Total	C	N	O	S	0	0
			750	478	127	139	6		
26	4W	53	Total	C	N	O	S	0	0
			411	267	64	74	6		

- Molecule 27 is a protein called Dynein regulatory complex subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	5	303	Total	C	N	O	S	0	0
			2377	1498	427	442	10		

- Molecule 28 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	5A	268	Total	C	N	O	S	0	0
			2218	1353	432	423	10		
28	5B	368	Total	C	N	O	S	0	0
			3089	1886	608	584	11		
28	5C	170	Total	C	N	O	S	0	0
			1423	871	278	271	3		

- Molecule 29 is a protein called RIB43A-like with coiled-coils protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	5D	89	Total	C	N	O	S	0	0
			744	447	154	141	2		
29	5E	335	Total	C	N	O	S	0	0
			2728	1650	530	533	15		
29	5F	266	Total	C	N	O	S	0	0
			2158	1308	413	424	13		

- Molecule 30 is a protein called Sperm-associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	5H	179	Total	C	N	O	S	0	0
			1459	919	260	271	9		
30	5I	179	Total	C	N	O	S	0	0
			1459	919	260	271	9		
30	5J	63	Total	C	N	O	S	0	0
			511	317	92	98	4		

- Molecule 31 is a protein called Uncharacterized protein CFAP68.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	5L	89	Total	C	N	O	S	0	0
			763	481	135	143	4		
31	5M	89	Total	C	N	O	S	0	0
			763	481	135	143	4		

- Molecule 32 is a protein called Cilia- and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	5O	80	Total	C	N	O	S	0	0
			693	442	131	118	2		
32	5P	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5Q	224	Total	C	N	O	S	0	0
			1831	1158	345	320	8		
32	5R	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5S	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5T	224	Total	C	N	O	S	0	0
			1831	1158	345	320	8		
32	5U	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5V	66	Total	C	N	O	S	0	0
			522	330	95	94	3		

- Molecule 33 is a protein called Uncharacterized protein CFAP90.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	5X	127	Total	C	N	O	S	0	0
			1045	659	195	190	1		
33	5Y	127	Total	C	N	O	S	0	0
			1045	659	195	190	1		

- Molecule 34 is a protein called Sperm acrosome-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	6A	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6C	159	Total	C	N	O	S	0	0
			1278	799	227	242	10		
34	6E	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6G	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6I	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6K	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6L	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6N	159	Total	C	N	O	S	0	0
			1278	799	227	242	10		
34	6O	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6Q	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6R	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6T	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6V	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		

- Molecule 35 is a protein called Dynein regulatory complex subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	7	601	Total	C	N	O	S	0	0
			4993	3174	854	931	34		

- Molecule 36 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	7A	60	Total	C	N	O	S	0	0
			462	295	81	84	2		
36	7B	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7C	102	Total	C	N	O	S	0	0
			825	526	147	148	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
36	7D	101	Total	C	N	O	S	0	0
			818	521	146	147	4		
36	7E	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7F	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7G	101	Total	C	N	O	S	0	0
			818	521	146	147	4		

- Molecule 37 is a protein called Cilia- and flagella-associated protein 144.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	7I	111	Total	C	N	O	S	0	0
			945	594	179	170	2		
37	7J	111	Total	C	N	O	S	0	0
			945	594	179	170	2		

- Molecule 38 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	8A	202	Total	C	N	O	S	0	0
			1615	1002	293	311	9		
38	8B	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8C	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8D	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8E	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8F	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8G	340	Total	C	N	O	S	0	0
			2770	1723	493	544	10		
38	8H	36	Total	C	N	O		0	0
			305	188	63	54			

- Molecule 39 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	8J	58	Total	C	N	O	S	0	0
			498	300	100	97	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
39	8K	381	Total	C	N	O	S	0	0
			3088	1891	567	615	15		
39	8L	378	Total	C	N	O	S	0	0
			3063	1877	561	610	15		
39	8M	383	Total	C	N	O	S	0	0
			3109	1907	570	617	15		
39	8N	384	Total	C	N	O	S	0	0
			3117	1911	571	620	15		
39	8O	384	Total	C	N	O	S	0	0
			3117	1911	571	620	15		
39	8P	360	Total	C	N	O	S	0	0
			2916	1789	531	581	15		
39	8Q	23	Total	C	N	O	S	0	0
			192	117	38	36	1		

- Molecule 40 is a protein called Dynein regulatory complex protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	9	278	Total	C	N	O	S	0	0
			2336	1466	407	451	12		

- Molecule 41 is a protein called Radial spoke head 1 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	A	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	B	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	C	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	D	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	a	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	b	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	c	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	d	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		

- Molecule 42 is a protein called Tubulin alpha-1A chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	AZ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AC	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AE	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AG	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AI	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AK	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AM	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AO	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AQ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AS	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AU	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AW	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	AY	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BA	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BC	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BE	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	BG	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BI	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	BK	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BM	433	Total	C	N	O	S	0	0
			3387	2145	576	644	22		
42	BO	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BQ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	BS	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BU	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BW	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	BY	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	CC	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CE	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	CG	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CI	431	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
42	CK	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CM	431	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
42	CO	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CQ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CS	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CU	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	CW	431	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
42	CY	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	DC	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	DE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	DG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	DI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	DK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	DM	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DO	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DQ	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	EC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EG	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EI	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EM	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EO	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	ES	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EU	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EY	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	FC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	FE	428	Total 3357	C 2130	N 571	O 634	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	FG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	FS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	FU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	FY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	GC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	GE	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	GG	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	GI	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	GK	433	Total 3396	C 2151	N 577	O 646	S 22	0	0
42	GM	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	GO	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	GQ	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	GS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	GU	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	GW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	GY	428	Total	C	N	O	S	0	0
			3357	2130	571	634	22		
42	HA	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	HE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	HG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HM	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HO	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	HS	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	HU	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HW	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	HY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	IA	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	IC	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	IE	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	IG	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	II	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	IK	430	Total	C	N	O	S	0	0
			3373	2138	573	640	22		
42	IM	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	IO	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	IQ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	IS	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	IU	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	IW	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	IY	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	JC	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	JE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	JG	433	Total	C	N	O	S	0	0
			3396	2151	577	646	22		
42	JI	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	JK	429	Total	C	N	O	S	0	0
			3365	2134	572	637	22		
42	JM	429	Total	C	N	O	S	0	0
			3365	2134	572	637	22		
42	JO	430	Total	C	N	O	S	0	0
			3373	2138	573	640	22		
42	JQ	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	JS	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	JU	429	Total	C	N	O	S	0	0
			3365	2134	572	637	22		
42	JW	431	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
42	JY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	KE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	KG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	KI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KM	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KO	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	KS	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KU	435	Total	C	N	O	S	0	0
			3409	2160	579	648	22		
42	KW	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	KY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	LC	433	Total	C	N	O	S	0	0
			3389	2146	576	645	22		
42	LE	433	Total	C	N	O	S	0	0
			3389	2146	576	645	22		
42	LG	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	LI	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	LK	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	LM	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	LO	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	LQ	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	LS	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	LU	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	LW	434	Total	C	N	O	S	0	0
			3397	2150	577	648	22		
42	LY	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	MA	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	ME	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	NA	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	NC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	NE	434	Total 3397	C 2150	N 577	O 648	S 22	0	0
42	NG	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	NI	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	NK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	NM	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	NO	432	Total 3387	C 2145	N 575	O 645	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	NQ	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	NS	435	Total	C	N	O	S	0	0
			3406	2156	579	649	22		
42	NU	433	Total	C	N	O	S	0	0
			3396	2151	577	646	22		
42	NW	433	Total	C	N	O	S	0	0
			3393	2148	576	647	22		
42	OA	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	OC	434	Total	C	N	O	S	0	0
			3402	2154	578	648	22		
42	OE	433	Total	C	N	O	S	0	0
			3393	2148	576	647	22		
42	OG	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	OI	434	Total	C	N	O	S	0	0
			3402	2154	578	648	22		
42	OK	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	OM	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	OO	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	OQ	433	Total	C	N	O	S	0	0
			3393	2148	576	647	22		
42	OS	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	OU	433	Total	C	N	O	S	0	0
			3396	2151	577	646	22		
42	OW	435	Total	C	N	O	S	0	0
			3406	2156	579	649	22		
42	OY	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	PA	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	PC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	PE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	PG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	PI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	PS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	PU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	PY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	QA	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	QC	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	QE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	QG	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	QI	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	QK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	QM	435	Total 3407	C 2157	N 579	O 649	S 22	0	0
42	QO	434	Total 3400	C 2153	N 578	O 647	S 22	0	0
42	QQ	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	QS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	QU	429	Total 3365	C 2134	N 572	O 637	S 22	0	0
42	QW	431	Total 3379	C 2141	N 574	O 642	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	QY	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	RA	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	RC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	RE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	RG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RM	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RO	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	RS	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	RU	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RW	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	RY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	SC	434	Total	C	N	O	S	0	0
			3402	2154	578	648	22		
42	SE	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	SG	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	SI	434	Total	C	N	O	S	0	0
			3402	2154	578	648	22		
42	SK	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	SM	438	Total	C	N	O	S	0	0
			3423	2167	582	652	22		
42	SO	430	Total	C	N	O	S	0	0
			3373	2138	573	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	SQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	SS	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	SU	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	SW	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	SY	433	Total	C	N	O	S	0	0
			3391	2147	576	646	22		
42	TC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	TE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	TG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TM	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TO	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	TS	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	TU	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TW	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	TY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	UC	434	Total	C	N	O	S	0	0
			3397	2150	577	648	22		
42	UE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	UG	431	Total	C	N	O	S	0	0
			3377	2140	574	641	22		
42	UI	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	UK	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	UM	430	Total	C	N	O	S	0	0
			3373	2138	573	640	22		
42	UO	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	UQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	US	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	UU	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	UW	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	UY	432	Total	C	N	O	S	0	0
			3387	2145	575	645	22		
42	VC	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	VE	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	VG	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VI	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VK	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VM	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VO	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VQ	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	VS	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	VU	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VW	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	VY	430	Total	C	N	O	S	0	0
			3371	2137	573	639	22		
42	WA	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
42	WC	432	Total	C	N	O	S	0	0
			3385	2144	575	644	22		
42	WE	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WG	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	WI	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WK	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WM	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WO	431	Total	C	N	O	S	0	0
			3379	2141	574	642	22		
42	WQ	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WS	432	Total	C	N	O	S	0	0
			3383	2143	575	643	22		
42	WU	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		
42	WW	439	Total	C	N	O	S	0	0
			3429	2170	583	654	22		

- Molecule 43 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	AB	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AD	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AF	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AH	433	Total	C	N	O	S	0	0
			3400	2134	581	659	26		
43	AJ	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AL	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	AN	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	AP	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	AR	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AT	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AV	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	AX	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	BB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	BD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	BH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BJ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
43	BL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BP	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	BR	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BT	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	BV	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	BX	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
43	CB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	CD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	CF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	CH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	CJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	CL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	CR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CT	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	CV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CX	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	CZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	EB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ED	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	EP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ER	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ET	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	FP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	FR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	GP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HB	411	Total 3214	C 2016	N 549	O 624	S 25	0	0
43	HD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	HH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	HP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ID	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	IP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	IX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	JP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KD	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KL	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	KN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	KP	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	KR	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	KT	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	KV	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	KX	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	KZ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LB	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LF	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LJ	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LN	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LP	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	LR	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LT	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LV	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	LX	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	LZ	436	Total	C	N	O	S	0	0
			3424	2150	584	664	26		
43	MD	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	MF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	MH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ML	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	MP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	NB	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	ND	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NL	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NR	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	NV	428	Total 3361	C 2112	N 576	O 647	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	NX	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	NZ	430	Total	C	N	O	S	0	0
			3373	2119	578	650	26		
43	OB	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	OD	429	Total	C	N	O	S	0	0
			3368	2116	577	649	26		
43	OF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	OH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	OJ	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	OL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	ON	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	OP	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	OR	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
43	OT	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	OV	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	OX	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	PB	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	PD	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	PF	428	Total	C	N	O	S	0	0
			3361	2112	576	647	26		
43	PH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	PJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	PL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
43	PN	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	PP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PX	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	QB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	QP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	RJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	RP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	SP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ST	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	TD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	TP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	UP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	UT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	VP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	WB	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WD	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WF	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WH	437	Total 3433	C 2155	N 585	O 667	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	WJ	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	WL	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	WN	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WP	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WR	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WT	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WV	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WX	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		

- Molecule 44 is a protein called Radial spoke head protein 3 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	E	169	Total	C	N	O	S	0	0
			1405	876	250	272	7		
44	F	217	Total	C	N	O	S	0	0
			1795	1125	311	350	9		
44	e	216	Total	C	N	O	S	0	0
			1783	1116	310	348	9		
44	f	213	Total	C	N	O	S	0	0
			1761	1104	304	344	9		

- Molecule 45 is a protein called Radial spoke head protein 4 homolog A.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	G	460	Total	C	N	O	S	0	0
			3714	2353	600	753	8		
45	H	467	Total	C	N	O	S	0	0
			3767	2387	607	764	9		
45	I	464	Total	C	N	O	S	0	0
			3746	2374	604	760	8		
45	J	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		
45	g	466	Total	C	N	O	S	0	0
			3760	2382	606	763	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	h	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		
45	i	468	Total	C	N	O	S	0	0
			3772	2390	608	765	9		
45	j	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		

- Molecule 46 is a protein called Sperm surface protein Sp17.

Mol	Chain	Residues	Atoms				AltConf	Trace
46	K	32	Total	C	N	O	0	0
			255	166	41	48		
46	L	35	Total	C	N	O	0	0
			277	178	45	54		
46	k	32	Total	C	N	O	0	0
			255	166	41	48		
46	l	38	Total	C	N	O	0	0
			306	195	52	59		

- Molecule 47 is a protein called Radial spoke head protein 9 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	M	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	N	257	Total	C	N	O	S	0	0
			2050	1314	343	384	9		
47	O	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	P	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		
47	m	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	n	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		
47	o	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	p	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		

- Molecule 48 is a protein called Ropporin-1-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	Q	174	Total	C	N	O	S	0	0
			1392	896	240	246	10		
48	R	37	Total	C	N	O		0	0
			300	196	52	52			
48	q	206	Total	C	N	O	S	0	0
			1641	1053	279	298	11		
48	r	42	Total	C	N	O	S	0	0
			330	214	57	58	1		

- Molecule 49 is a protein called Probable inactive peptidyl-prolyl cis-trans isomerase-like 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	S	290	Total	C	N	O	S	0	0
			2336	1496	400	431	9		
49	s	290	Total	C	N	O	S	0	0
			2336	1496	400	431	9		

- Molecule 50 is a protein called Radial spoke head 14 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	T	336	Total	C	N	O	S	0	0
			2612	1660	451	485	16		
50	t	325	Total	C	N	O	S	0	0
			2528	1608	437	467	16		

- Molecule 51 is a protein called DnaJ homolog subfamily B member 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	U	296	Total	C	N	O	S	0	0
			2397	1540	415	435	7		
51	V	297	Total	C	N	O	S	0	0
			2406	1545	417	437	7		
51	u	296	Total	C	N	O	S	0	0
			2397	1540	415	435	7		
51	v	297	Total	C	N	O	S	0	0
			2406	1545	417	437	7		

- Molecule 52 is a protein called Calmodulin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	W	142	Total	C	N	O	S	0	0
			1121	687	180	245	9		

- Molecule 53 is a protein called Nucleoside diphosphate kinase homolog 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	X	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	Y	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	x	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	y	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		

- Molecule 54 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	XA	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XB	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XC	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XD	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XE	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XF	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XG	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XH	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XI	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XJ	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XK	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XL	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XM	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		

- Molecule 55 is a protein called Parkin coregulated gene protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	YB	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YC	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YD	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YF	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YG	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YH	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YI	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YJ	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YK	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YL	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YM	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		

- Molecule 56 is a protein called Cytochrome b5 domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	Z	214	Total	C	N	O	S	0	0
			1784	1145	303	331	5		
56	z	209	Total	C	N	O	S	0	0
			1735	1111	297	322	5		

- Molecule 57 is a protein called Unknown.

Mol	Chain	Residues	Atoms				AltConf	Trace
57	a0	72	Total	C	N	O	0	0
			360	216	72	72		

- Molecule 58 is a protein called DYNLL1.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	a1	83	Total	C	N	O	S	0	0
			680	438	112	126	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
58	a2	84	Total	C	N	O	S	0	0
			685	441	113	127	4		
58	a3	83	Total	C	N	O	S	0	0
			684	442	113	125	4		
58	a4	88	Total	C	N	O	S	0	0
			719	460	121	133	5		
58	a5	84	Total	C	N	O	S	0	0
			690	445	114	127	4		
58	a6	83	Total	C	N	O	S	0	0
			681	439	112	126	4		
58	a7	85	Total	C	N	O	S	0	0
			694	447	115	128	4		
58	a8	86	Total	C	N	O	S	0	0
			705	453	119	129	4		
58	a9	85	Total	C	N	O	S	0	0
			694	447	115	128	4		
58	b0	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	b1	85	Total	C	N	O	S	0	0
			694	447	115	128	4		
58	b2	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	b3	87	Total	C	N	O	S	0	0
			717	460	120	131	6		
58	b4	84	Total	C	N	O	S	0	0
			695	448	117	126	4		
58	b5	84	Total	C	N	O	S	0	0
			695	448	117	126	4		
58	b6	83	Total	C	N	O	S	0	0
			684	442	113	125	4		
58	b7	86	Total	C	N	O	S	0	0
			705	453	119	129	4		
58	b8	87	Total	C	N	O	S	0	0
			713	457	120	132	4		
58	b9	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	c0	85	Total	C	N	O	S	0	0
			694	447	115	128	4		
58	l1	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	l2	89	Total	C	N	O	S	0	0
			727	465	122	134	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
58	l3	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	l4	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	l5	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	l6	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n1	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n2	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n3	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n4	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n5	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	n6	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p1	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p2	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p3	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p4	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p5	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	p6	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	r1	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	r2	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	r3	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	r4	89	Total 727	C 465	N 122	O 134	S 6	0	0
58	r5	89	Total 727	C 465	N 122	O 134	S 6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
58	r6	89	Total	C	N	O	S	0	0
			727	465	122	134	6		

- Molecule 59 is a protein called MORN repeat-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	c1	228	Total	C	N	O	S	0	0
			1858	1178	329	341	10		

- Molecule 60 is a protein called IQ and ubiquitin-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	c2	631	Total	C	N	O	S	0	0
			5234	3355	910	948	21		

- Molecule 61 is a protein called DPY30 domain-containing protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	c3	44	Total	C	N	O	S	0	0
			363	234	64	62	3		
61	c4	55	Total	C	N	O	S	0	0
			458	292	83	80	3		
61	c5	61	Total	C	N	O	S	0	0
			515	328	92	92	3		
61	c6	61	Total	C	N	O	S	0	0
			515	328	92	92	3		

- Molecule 62 is a protein called Cilia- and flagella-associated protein 61.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	d0	1092	Total	C	N	O	S	0	0
			8819	5669	1488	1608	54		

- Molecule 63 is a protein called Cilia- and flagella-associated protein 91.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	d1	523	Total	C	N	O	S	0	0
			4340	2753	774	794	19		

- Molecule 64 is a protein called Cilia- and flagella-associated protein 251.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	d2	907	Total	C	N	O	S	0	0
			7227	4652	1193	1342	40		

- Molecule 65 is a protein called Tetratricopeptide repeat protein 29.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	d3	419	Total	C	N	O	S	0	0
			3431	2178	578	654	21		

- Molecule 66 is a protein called Zinc finger MYND domain-containing protein 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	d4	358	Total	C	N	O	S	0	0
			2885	1846	485	537	17		

- Molecule 67 is a protein called ACTA2.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	d5	377	Total	C	N	O	S	0	0
			2944	1859	495	567	23		
67	d6	377	Total	C	N	O	S	0	0
			2944	1859	495	567	23		
67	d7	370	Total	C	N	O	S	0	0
			2889	1829	488	551	21		
67	d8	377	Total	C	N	O	S	0	0
			2944	1859	495	567	23		
67	d9	367	Total	C	N	O	S	0	0
			2864	1813	485	546	20		
67	f1	371	Total	C	N	O	S	0	0
			2895	1832	489	553	21		

- Molecule 68 is a protein called Axonemal dynein light intermediate polypeptide 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	e0	209	Total	C	N	O	S	0	0
			1713	1060	312	333	8		
68	e1	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		
68	e2	209	Total	C	N	O	S	0	0
			1713	1060	312	333	8		
68	e3	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
68	e4	200	Total	C	N	O	S	0	0
			1645	1017	302	318	8		
68	e5	199	Total	C	N	O	S	0	0
			1639	1012	299	319	9		
68	e6	199	Total	C	N	O	S	0	0
			1639	1013	299	319	8		
68	e7	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		
68	e8	209	Total	C	N	O	S	0	0
			1713	1060	312	333	8		
68	e9	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		

- Molecule 69 is a protein called Centrin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	f2	147	Total	C	N	O	S	0	0
			1183	739	191	246	7		

- Molecule 70 is a protein called Dynein axonemal heavy chain 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	g1	3939	Total	C	N	O	S	0	0
			31794	20376	5309	5921	188		

- Molecule 71 is a protein called Dynein axonemal heavy chain 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	g2	507	Total	C	N	O	S	0	0
			4176	2676	697	775	28		
71	g4	437	Total	C	N	O	S	0	0
			3610	2320	604	664	22		

- Molecule 72 is a protein called Dynein axonemal heavy chain 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	g3	571	Total	C	N	O	S	0	0
			4660	2997	783	849	31		

- Molecule 73 is a protein called Dynein axonemal heavy chain 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	g5	3978	Total	C	N	O	S	0	0
			32054	20492	5401	5990	171		

- Molecule 74 is a protein called Dynein axonemal heavy chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	g6	4174	Total	C	N	O	S	0	0
			33600	21465	5650	6286	199		

- Molecule 75 is a protein called Coiled-coil domain-containing protein 39.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	h1	388	Total	C	N	O	S	0	0
			3183	1954	570	648	11		
75	h2	475	Total	C	N	O	S	0	0
			3959	2468	689	784	18		

- Molecule 76 is a protein called Coiled-coil domain-containing protein 40.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	h3	387	Total	C	N	O	S	0	0
			3152	1944	578	613	17		
76	h4	480	Total	C	N	O	S	0	0
			3932	2425	732	757	18		

- Molecule 77 is a protein called Coiled-coil domain-containing protein 96.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	i1	305	Total	C	N	O	S	0	0
			2509	1552	477	467	13		

- Molecule 78 is a protein called Coiled-coil domain-containing protein 113.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	i2	364	Total	C	N	O	S	0	0
			2998	1866	548	570	14		

- Molecule 79 is a protein called Cilia- and flagella-associated protein 299.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	i3	194	Total	C	N	O	S	0	0
			1592	1006	274	311	1		

- Molecule 80 is a protein called Cilia- and flagella-associated protein 57.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	i4	1021	Total	C	N	O	S	0	0
			8344	5265	1440	1599	40		
80	i5	1049	Total	C	N	O	S	0	0
			8561	5402	1477	1641	41		

- Molecule 81 is a protein called Cilia- and flagella-associated protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	i6	165	Total	C	N	O	S	0	0
			1363	854	240	255	14		
81	i8	1379	Total	C	N	O	S	0	0
			11188	7146	1869	2111	62		

- Molecule 82 is a protein called Cilia- and flagella-associated protein 44.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	i7	160	Total	C	N	O	S	0	0
			1326	826	248	242	10		
82	i9	1338	Total	C	N	O	S	0	0
			10895	6968	1841	2028	58		

- Molecule 83 is a protein called Cilia- and flagella-associated protein 58.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	j1	458	Total	C	N	O	S	0	0
			3859	2403	710	734	12		
83	j2	471	Total	C	N	O	S	0	0
			3973	2477	732	752	12		

- Molecule 84 is a protein called Cilia- and flagella-associated protein 73.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	j3	254	Total	C	N	O	S	0	0
			2104	1304	412	383	5		

- Molecule 85 is a protein called Cilia- and flagella-associated protein 100.

Mol	Chain	Residues	Atoms					AltConf	Trace
85	j4	244	Total	C	N	O	S	0	0
			2021	1266	342	404	9		

- Molecule 86 is a protein called Dynein axonemal intermediate chain 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	k1	590	Total	C	N	O	S	0	0
			4743	3035	781	897	30		

- Molecule 87 is a protein called Dynein axonemal intermediate chain 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
87	k2	500	Total	C	N	O	S	0	0
			3991	2544	673	749	25		

- Molecule 88 is a protein called Dynein axonemal intermediate chain 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
88	k3	497	Total	C	N	O	S	0	0
			4044	2608	666	751	19		

- Molecule 89 is a protein called Dynein light chain roadblock-type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	k4	96	Total	C	N	O	S	0	0
			764	481	131	148	4		
89	m4	96	Total	C	N	O	S	0	0
			764	481	131	148	4		
89	o4	96	Total	C	N	O	S	0	0
			764	481	131	148	4		
89	q4	96	Total	C	N	O	S	0	0
			764	481	131	148	4		

- Molecule 90 is a protein called Dynein light chain roadblock-type 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
90	k5	96	Total	C	N	O	S	0	0
			758	476	134	143	5		
90	m5	96	Total	C	N	O	S	0	0
			758	476	134	143	5		
90	o5	96	Total	C	N	O	S	0	0
			758	476	134	143	5		
90	q5	96	Total	C	N	O	S	0	0
			758	476	134	143	5		

- Molecule 91 is a protein called Dynein axonemal heavy chain 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
91	k8	4443	Total	C	N	O	S	0	0
			36045	23070	6109	6666	200		

- Molecule 92 is a protein called Dynein axonemal heavy chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
92	k9	4349	Total	C	N	O	S	0	0
			35139	22447	6004	6497	191		

- Molecule 93 is a protein called Dynein light chain Tctex-type protein 2B.

Mol	Chain	Residues	Atoms					AltConf	Trace
93	l7	105	Total	C	N	O	S	0	0
			854	545	141	159	9		
93	n7	113	Total	C	N	O	S	0	0
			924	592	154	169	9		
93	p7	113	Total	C	N	O	S	0	0
			924	592	154	169	9		
93	r7	113	Total	C	N	O	S	0	0
			924	592	154	169	9		

- Molecule 94 is a protein called Dynein light chain Tctex-type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
94	l8	102	Total	C	N	O	S	0	0
			785	497	130	152	6		
94	n8	103	Total	C	N	O	S	0	0
			790	500	131	153	6		
94	p8	103	Total	C	N	O	S	0	0
			790	500	131	153	6		
94	r8	90	Total	C	N	O	S	0	0
			687	435	117	129	6		

- Molecule 95 is a protein called Calaxin.

Mol	Chain	Residues	Atoms					AltConf	Trace
95	m0	211	Total	C	N	O	S	0	0
			1716	1091	284	326	15		
95	q0	211	Total	C	N	O	S	0	0
			1716	1091	284	326	15		
95	s0	211	Total	C	N	O	S	0	0
			1716	1091	284	326	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
95	u0	211	Total	C	N	O	S	0	0
			1716	1091	284	326	15		

- Molecule 96 is a protein called Dynein axonemal intermediate chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
96	m1	527	Total	C	N	O	S	0	0
			4241	2704	729	788	20		
96	o1	527	Total	C	N	O	S	0	0
			4241	2704	729	788	20		
96	q1	527	Total	C	N	O	S	0	0
			4241	2704	729	788	20		
96	s1	414	Total	C	N	O	S	0	0
			3320	2132	557	612	19		

- Molecule 97 is a protein called Dynein axonemal intermediate chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
97	m2	529	Total	C	N	O	S	0	0
			4233	2669	723	812	29		
97	o2	529	Total	C	N	O	S	0	0
			4233	2669	723	812	29		
97	q2	529	Total	C	N	O	S	0	0
			4233	2669	723	812	29		
97	s2	398	Total	C	N	O	S	0	0
			3161	2002	538	600	21		

- Molecule 98 is a protein called Dynein axonemal light chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
98	m3	190	Total	C	N	O	S	0	0
			1509	960	254	287	8		
98	o3	190	Total	C	N	O	S	0	0
			1509	960	254	287	8		
98	q3	190	Total	C	N	O	S	0	0
			1509	960	254	287	8		

- Molecule 99 is a protein called Outer dynein arm-docking complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
99	m6	349	Total	C	N	O	S	0	0
			2926	1816	554	547	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
99	o6	189	Total	C	N	O	S	0	0
			1567	986	278	297	6		
99	q6	349	Total	C	N	O	S	0	0
			2926	1816	554	547	9		
99	s6	349	Total	C	N	O	S	0	0
			2926	1816	554	547	9		
99	u6	212	Total	C	N	O	S	0	0
			1772	1085	352	330	5		

- Molecule 100 is a protein called Outer dynein arm-docking complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
100	m7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	q7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	s7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	u7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		

- Molecule 101 is a protein called Outer dynein arm-docking complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
101	m8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	o8	239	Total	C	N	O	S	0	0
			1970	1214	370	378	8		
101	q8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	s8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	u8	231	Total	C	N	O	S	0	0
			1944	1210	370	359	5		

- Molecule 102 is a protein called Outer dynein arm-docking complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
102	m9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		
102	q9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
102	s9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		
102	u9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		

- Molecule 103 is a protein called Dynein axonemal heavy chain 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
103	n0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	p0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	r0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	t0	836	Total	C	N	O	S	0	0
			6751	4318	1150	1251	32		

- Molecule 104 is a protein called Dynein axonemal heavy chain 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
104	n9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	p9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	r9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	t9	718	Total	C	N	O	S	0	0
			5742	3642	1001	1072	27		

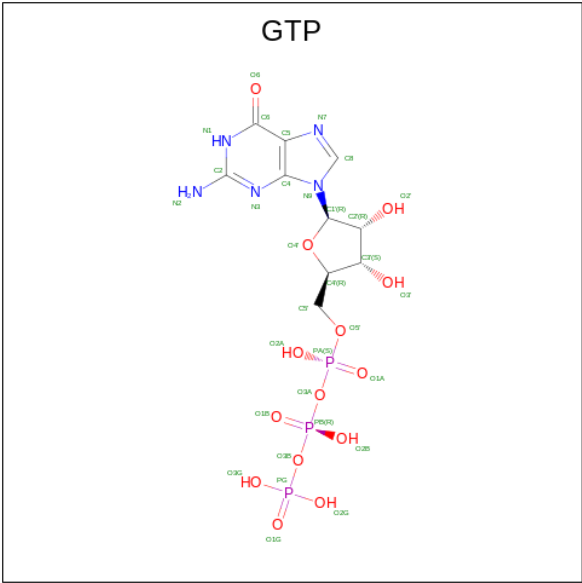
- Molecule 105 is a protein called Thioredoxin domain-containing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
105	v1	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		
105	v2	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		
105	v3	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		

- Molecule 106 is a protein called Leucine-rich repeat-containing protein 34.

Mol	Chain	Residues	Atoms					AltConf	Trace
106	w	412	Total	C	N	O	S	0	0
			3229	2048	546	614	21		

- Molecule 107 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃).



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Mol	Chain	Residues	Atoms					AltConf
107	AW	1	Total 32	C 10	N 5	O 14	P 3	0
107	AY	1	Total 32	C 10	N 5	O 14	P 3	0
107	BA	1	Total 32	C 10	N 5	O 14	P 3	0
107	BC	1	Total 32	C 10	N 5	O 14	P 3	0
107	BE	1	Total 32	C 10	N 5	O 14	P 3	0
107	BG	1	Total 32	C 10	N 5	O 14	P 3	0
107	BI	1	Total 32	C 10	N 5	O 14	P 3	0
107	BK	1	Total 32	C 10	N 5	O 14	P 3	0
107	BM	1	Total 32	C 10	N 5	O 14	P 3	0
107	BO	1	Total 32	C 10	N 5	O 14	P 3	0
107	BQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	BS	1	Total 32	C 10	N 5	O 14	P 3	0
107	BU	1	Total 32	C 10	N 5	O 14	P 3	0
107	BW	1	Total 32	C 10	N 5	O 14	P 3	0
107	BY	1	Total 32	C 10	N 5	O 14	P 3	0
107	CC	1	Total 32	C 10	N 5	O 14	P 3	0
107	CE	1	Total 32	C 10	N 5	O 14	P 3	0
107	CG	1	Total 32	C 10	N 5	O 14	P 3	0
107	CI	1	Total 32	C 10	N 5	O 14	P 3	0
107	CK	1	Total 32	C 10	N 5	O 14	P 3	0
107	CM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	CO	1	Total 32	C 10	N 5	O 14	P 3	0
107	CQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	CS	1	Total 32	C 10	N 5	O 14	P 3	0
107	CU	1	Total 32	C 10	N 5	O 14	P 3	0
107	CW	1	Total 32	C 10	N 5	O 14	P 3	0
107	CY	1	Total 32	C 10	N 5	O 14	P 3	0
107	DC	1	Total 32	C 10	N 5	O 14	P 3	0
107	DE	1	Total 32	C 10	N 5	O 14	P 3	0
107	DG	1	Total 32	C 10	N 5	O 14	P 3	0
107	DI	1	Total 32	C 10	N 5	O 14	P 3	0
107	DK	1	Total 32	C 10	N 5	O 14	P 3	0
107	DM	1	Total 32	C 10	N 5	O 14	P 3	0
107	DO	1	Total 32	C 10	N 5	O 14	P 3	0
107	DQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	DS	1	Total 32	C 10	N 5	O 14	P 3	0
107	DU	1	Total 32	C 10	N 5	O 14	P 3	0
107	DW	1	Total 32	C 10	N 5	O 14	P 3	0
107	DY	1	Total 32	C 10	N 5	O 14	P 3	0
107	EC	1	Total 32	C 10	N 5	O 14	P 3	0
107	EE	1	Total 32	C 10	N 5	O 14	P 3	0
107	EG	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	EI	1	Total 32	C 10	N 5	O 14	P 3	0
107	EK	1	Total 32	C 10	N 5	O 14	P 3	0
107	EM	1	Total 32	C 10	N 5	O 14	P 3	0
107	EO	1	Total 32	C 10	N 5	O 14	P 3	0
107	EQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	ES	1	Total 32	C 10	N 5	O 14	P 3	0
107	EU	1	Total 32	C 10	N 5	O 14	P 3	0
107	EW	1	Total 32	C 10	N 5	O 14	P 3	0
107	EY	1	Total 32	C 10	N 5	O 14	P 3	0
107	FC	1	Total 32	C 10	N 5	O 14	P 3	0
107	FE	1	Total 32	C 10	N 5	O 14	P 3	0
107	FG	1	Total 32	C 10	N 5	O 14	P 3	0
107	FI	1	Total 32	C 10	N 5	O 14	P 3	0
107	FK	1	Total 32	C 10	N 5	O 14	P 3	0
107	FM	1	Total 32	C 10	N 5	O 14	P 3	0
107	FN	1	Total 32	C 10	N 5	O 14	P 3	0
107	FQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	FS	1	Total 32	C 10	N 5	O 14	P 3	0
107	FU	1	Total 32	C 10	N 5	O 14	P 3	0
107	FW	1	Total 32	C 10	N 5	O 14	P 3	0
107	FY	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	GC	1	32	10	5	14	3	0
107	GE	1	32	10	5	14	3	0
107	GG	1	32	10	5	14	3	0
107	GI	1	32	10	5	14	3	0
107	GK	1	32	10	5	14	3	0
107	GM	1	32	10	5	14	3	0
107	GO	1	32	10	5	14	3	0
107	GQ	1	32	10	5	14	3	0
107	GR	1	32	10	5	14	3	0
107	GU	1	32	10	5	14	3	0
107	GW	1	32	10	5	14	3	0
107	GX	1	32	10	5	14	3	0
107	HA	1	32	10	5	14	3	0
107	HC	1	32	10	5	14	3	0
107	HE	1	32	10	5	14	3	0
107	HF	1	32	10	5	14	3	0
107	HI	1	32	10	5	14	3	0
107	HK	1	32	10	5	14	3	0
107	HM	1	32	10	5	14	3	0
107	HN	1	32	10	5	14	3	0
107	HQ	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
107	HS	1	Total 32	C 10	N 5	O 14	P 3	0
107	HU	1	Total 32	C 10	N 5	O 14	P 3	0
107	HW	1	Total 32	C 10	N 5	O 14	P 3	0
107	HY	1	Total 32	C 10	N 5	O 14	P 3	0
107	IA	1	Total 32	C 10	N 5	O 14	P 3	0
107	IC	1	Total 32	C 10	N 5	O 14	P 3	0
107	ID	1	Total 32	C 10	N 5	O 14	P 3	0
107	IG	1	Total 32	C 10	N 5	O 14	P 3	0
107	II	1	Total 32	C 10	N 5	O 14	P 3	0
107	IK	1	Total 32	C 10	N 5	O 14	P 3	0
107	IM	1	Total 32	C 10	N 5	O 14	P 3	0
107	IO	1	Total 32	C 10	N 5	O 14	P 3	0
107	IQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	IS	1	Total 32	C 10	N 5	O 14	P 3	0
107	IU	1	Total 32	C 10	N 5	O 14	P 3	0
107	IW	1	Total 32	C 10	N 5	O 14	P 3	0
107	IY	1	Total 32	C 10	N 5	O 14	P 3	0
107	JC	1	Total 32	C 10	N 5	O 14	P 3	0
107	JD	1	Total 32	C 10	N 5	O 14	P 3	0
107	JG	1	Total 32	C 10	N 5	O 14	P 3	0
107	JI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	JJ	1	Total 32	C 10	N 5	O 14	P 3	0
107	JM	1	Total 32	C 10	N 5	O 14	P 3	0
107	JO	1	Total 32	C 10	N 5	O 14	P 3	0
107	JQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	JR	1	Total 32	C 10	N 5	O 14	P 3	0
107	JU	1	Total 32	C 10	N 5	O 14	P 3	0
107	JW	1	Total 32	C 10	N 5	O 14	P 3	0
107	JY	1	Total 32	C 10	N 5	O 14	P 3	0
107	KC	1	Total 32	C 10	N 5	O 14	P 3	0
107	KE	1	Total 32	C 10	N 5	O 14	P 3	0
107	KF	1	Total 32	C 10	N 5	O 14	P 3	0
107	KI	1	Total 32	C 10	N 5	O 14	P 3	0
107	KK	1	Total 32	C 10	N 5	O 14	P 3	0
107	KM	1	Total 32	C 10	N 5	O 14	P 3	0
107	KN	1	Total 32	C 10	N 5	O 14	P 3	0
107	KQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	KS	1	Total 32	C 10	N 5	O 14	P 3	0
107	KU	1	Total 32	C 10	N 5	O 14	P 3	0
107	KW	1	Total 32	C 10	N 5	O 14	P 3	0
107	KY	1	Total 32	C 10	N 5	O 14	P 3	0
107	LC	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	LE	1	32	10	5	14	3	0
107	LG	1	32	10	5	14	3	0
107	LI	1	32	10	5	14	3	0
107	LK	1	32	10	5	14	3	0
107	LM	1	32	10	5	14	3	0
107	LO	1	32	10	5	14	3	0
107	LQ	1	32	10	5	14	3	0
107	LS	1	32	10	5	14	3	0
107	LU	1	32	10	5	14	3	0
107	LW	1	32	10	5	14	3	0
107	LY	1	32	10	5	14	3	0
107	MA	1	32	10	5	14	3	0
107	MC	1	32	10	5	14	3	0
107	ME	1	32	10	5	14	3	0
107	MG	1	32	10	5	14	3	0
107	MI	1	32	10	5	14	3	0
107	MK	1	32	10	5	14	3	0
107	MM	1	32	10	5	14	3	0
107	MN	1	32	10	5	14	3	0
107	MQ	1	32	10	5	14	3	0
107	MS	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	MT	1	32	10	5	14	3	0
107	MW	1	32	10	5	14	3	0
107	MY	1	32	10	5	14	3	0
107	NA	1	32	10	5	14	3	0
107	NC	1	32	10	5	14	3	0
107	ND	1	32	10	5	14	3	0
107	NG	1	32	10	5	14	3	0
107	NI	1	32	10	5	14	3	0
107	NK	1	32	10	5	14	3	0
107	NL	1	32	10	5	14	3	0
107	NO	1	32	10	5	14	3	0
107	NQ	1	32	10	5	14	3	0
107	NS	1	32	10	5	14	3	0
107	NU	1	32	10	5	14	3	0
107	NW	1	32	10	5	14	3	0
107	OA	1	32	10	5	14	3	0
107	OC	1	32	10	5	14	3	0
107	OE	1	32	10	5	14	3	0
107	OG	1	32	10	5	14	3	0
107	OI	1	32	10	5	14	3	0
107	OK	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
107	OM	1	Total 32	C 10	N 5	O 14	P 3	0
107	OO	1	Total 32	C 10	N 5	O 14	P 3	0
107	OQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	OS	1	Total 32	C 10	N 5	O 14	P 3	0
107	OU	1	Total 32	C 10	N 5	O 14	P 3	0
107	OW	1	Total 32	C 10	N 5	O 14	P 3	0
107	OY	1	Total 32	C 10	N 5	O 14	P 3	0
107	PA	1	Total 32	C 10	N 5	O 14	P 3	0
107	PC	1	Total 32	C 10	N 5	O 14	P 3	0
107	PE	1	Total 32	C 10	N 5	O 14	P 3	0
107	PG	1	Total 32	C 10	N 5	O 14	P 3	0
107	PI	1	Total 32	C 10	N 5	O 14	P 3	0
107	PK	1	Total 32	C 10	N 5	O 14	P 3	0
107	PM	1	Total 32	C 10	N 5	O 14	P 3	0
107	PN	1	Total 32	C 10	N 5	O 14	P 3	0
107	PQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	PS	1	Total 32	C 10	N 5	O 14	P 3	0
107	PT	1	Total 32	C 10	N 5	O 14	P 3	0
107	PW	1	Total 32	C 10	N 5	O 14	P 3	0
107	PY	1	Total 32	C 10	N 5	O 14	P 3	0
107	QA	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	QC	1	Total 32	C 10	N 5	O 14	P 3	0
107	QD	1	Total 32	C 10	N 5	O 14	P 3	0
107	QG	1	Total 32	C 10	N 5	O 14	P 3	0
107	QI	1	Total 32	C 10	N 5	O 14	P 3	0
107	QK	1	Total 32	C 10	N 5	O 14	P 3	0
107	QL	1	Total 32	C 10	N 5	O 14	P 3	0
107	QO	1	Total 32	C 10	N 5	O 14	P 3	0
107	QQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	QR	1	Total 32	C 10	N 5	O 14	P 3	0
107	QU	1	Total 32	C 10	N 5	O 14	P 3	0
107	QW	1	Total 32	C 10	N 5	O 14	P 3	0
107	QX	1	Total 32	C 10	N 5	O 14	P 3	0
107	RA	1	Total 32	C 10	N 5	O 14	P 3	0
107	RC	1	Total 32	C 10	N 5	O 14	P 3	0
107	RE	1	Total 32	C 10	N 5	O 14	P 3	0
107	RF	1	Total 32	C 10	N 5	O 14	P 3	0
107	RI	1	Total 32	C 10	N 5	O 14	P 3	0
107	RK	1	Total 32	C 10	N 5	O 14	P 3	0
107	RM	1	Total 32	C 10	N 5	O 14	P 3	0
107	RN	1	Total 32	C 10	N 5	O 14	P 3	0
107	RQ	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	RS	1	Total 32	C 10	N 5	O 14	P 3	0
107	RT	1	Total 32	C 10	N 5	O 14	P 3	0
107	RW	1	Total 32	C 10	N 5	O 14	P 3	0
107	RY	1	Total 32	C 10	N 5	O 14	P 3	0
107	SC	1	Total 32	C 10	N 5	O 14	P 3	0
107	SE	1	Total 32	C 10	N 5	O 14	P 3	0
107	SG	1	Total 32	C 10	N 5	O 14	P 3	0
107	SI	1	Total 32	C 10	N 5	O 14	P 3	0
107	SK	1	Total 32	C 10	N 5	O 14	P 3	0
107	SL	1	Total 32	C 10	N 5	O 14	P 3	0
107	SO	1	Total 32	C 10	N 5	O 14	P 3	0
107	SQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	SR	1	Total 32	C 10	N 5	O 14	P 3	0
107	SU	1	Total 32	C 10	N 5	O 14	P 3	0
107	SW	1	Total 32	C 10	N 5	O 14	P 3	0
107	SX	1	Total 32	C 10	N 5	O 14	P 3	0
107	TB	1	Total 32	C 10	N 5	O 14	P 3	0
107	TE	1	Total 32	C 10	N 5	O 14	P 3	0
107	TG	1	Total 32	C 10	N 5	O 14	P 3	0
107	TI	1	Total 32	C 10	N 5	O 14	P 3	0
107	TK	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
107	TM	1	Total 32	C 10	N 5	O 14	P 3	0
107	TN	1	Total 32	C 10	N 5	O 14	P 3	0
107	TQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	TS	1	Total 32	C 10	N 5	O 14	P 3	0
107	TU	1	Total 32	C 10	N 5	O 14	P 3	0
107	TW	1	Total 32	C 10	N 5	O 14	P 3	0
107	TY	1	Total 32	C 10	N 5	O 14	P 3	0
107	UC	1	Total 32	C 10	N 5	O 14	P 3	0
107	UE	1	Total 32	C 10	N 5	O 14	P 3	0
107	UG	1	Total 32	C 10	N 5	O 14	P 3	0
107	UI	1	Total 32	C 10	N 5	O 14	P 3	0
107	UK	1	Total 32	C 10	N 5	O 14	P 3	0
107	UM	1	Total 32	C 10	N 5	O 14	P 3	0
107	UO	1	Total 32	C 10	N 5	O 14	P 3	0
107	UQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	US	1	Total 32	C 10	N 5	O 14	P 3	0
107	UU	1	Total 32	C 10	N 5	O 14	P 3	0
107	UW	1	Total 32	C 10	N 5	O 14	P 3	0
107	UY	1	Total 32	C 10	N 5	O 14	P 3	0
107	VC	1	Total 32	C 10	N 5	O 14	P 3	0
107	VE	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	VG	1	32	10	5	14	3	0
107	VI	1	32	10	5	14	3	0
107	VK	1	32	10	5	14	3	0
107	VM	1	32	10	5	14	3	0
107	VN	1	32	10	5	14	3	0
107	VQ	1	32	10	5	14	3	0
107	VS	1	32	10	5	14	3	0
107	VU	1	32	10	5	14	3	0
107	VW	1	32	10	5	14	3	0
107	VY	1	32	10	5	14	3	0
107	WA	1	32	10	5	14	3	0
107	WC	1	32	10	5	14	3	0
107	WE	1	32	10	5	14	3	0
107	WG	1	32	10	5	14	3	0
107	WI	1	32	10	5	14	3	0
107	WK	1	32	10	5	14	3	0
107	WM	1	32	10	5	14	3	0
107	WO	1	32	10	5	14	3	0
107	WQ	1	32	10	5	14	3	0
107	WS	1	32	10	5	14	3	0
107	WU	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
107	WW	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 108 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
108	AZ	1	Total	Mg	0
			1	1	
108	AC	1	Total	Mg	0
			1	1	
108	AE	1	Total	Mg	0
			1	1	
108	AG	1	Total	Mg	0
			1	1	
108	AI	1	Total	Mg	0
			1	1	
108	AK	1	Total	Mg	0
			1	1	
108	AM	1	Total	Mg	0
			1	1	
108	AO	1	Total	Mg	0
			1	1	
108	AQ	1	Total	Mg	0
			1	1	
108	AS	1	Total	Mg	0
			1	1	
108	AU	1	Total	Mg	0
			1	1	
108	AW	1	Total	Mg	0
			1	1	
108	AY	1	Total	Mg	0
			1	1	
108	BA	1	Total	Mg	0
			1	1	
108	BC	1	Total	Mg	0
			1	1	
108	BE	1	Total	Mg	0
			1	1	
108	BG	1	Total	Mg	0
			1	1	
108	BI	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	BK	1	1	1	0
108	BM	1	1	1	0
108	BO	1	1	1	0
108	BP	1	1	1	0
108	BS	1	1	1	0
108	BU	1	1	1	0
108	BW	1	1	1	0
108	BY	1	1	1	0
108	CC	1	1	1	0
108	CE	1	1	1	0
108	CG	1	1	1	0
108	CI	1	1	1	0
108	CK	1	1	1	0
108	CM	1	1	1	0
108	CO	1	1	1	0
108	CQ	1	1	1	0
108	CS	1	1	1	0
108	CU	1	1	1	0
108	CW	1	1	1	0
108	CY	1	1	1	0
108	DC	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
108	DE	1	Total 1	Mg 1	0
108	DG	1	Total 1	Mg 1	0
108	DI	1	Total 1	Mg 1	0
108	DK	1	Total 1	Mg 1	0
108	DM	1	Total 1	Mg 1	0
108	DO	1	Total 1	Mg 1	0
108	DQ	1	Total 1	Mg 1	0
108	DS	1	Total 1	Mg 1	0
108	DU	1	Total 1	Mg 1	0
108	DW	1	Total 1	Mg 1	0
108	DY	1	Total 1	Mg 1	0
108	EC	1	Total 1	Mg 1	0
108	EE	1	Total 1	Mg 1	0
108	EG	1	Total 1	Mg 1	0
108	EI	1	Total 1	Mg 1	0
108	EK	1	Total 1	Mg 1	0
108	EM	1	Total 1	Mg 1	0
108	EO	1	Total 1	Mg 1	0
108	EQ	1	Total 1	Mg 1	0
108	ES	1	Total 1	Mg 1	0
108	EU	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
108	EW	1	Total 1	Mg 1	0
108	EY	1	Total 1	Mg 1	0
108	FB	1	Total 1	Mg 1	0
108	FE	1	Total 1	Mg 1	0
108	FG	1	Total 1	Mg 1	0
108	FH	1	Total 1	Mg 1	0
108	FK	1	Total 1	Mg 1	0
108	FM	1	Total 1	Mg 1	0
108	FO	1	Total 1	Mg 1	0
108	FQ	1	Total 1	Mg 1	0
108	FS	1	Total 1	Mg 1	0
108	FU	1	Total 1	Mg 1	0
108	FV	1	Total 1	Mg 1	0
108	FY	1	Total 1	Mg 1	0
108	GC	1	Total 1	Mg 1	0
108	GE	1	Total 1	Mg 1	0
108	GG	1	Total 1	Mg 1	0
108	GI	1	Total 1	Mg 1	0
108	GK	1	Total 1	Mg 1	0
108	GM	1	Total 1	Mg 1	0
108	GO	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	GQ	1	1	1	0
108	GS	1	1	1	0
108	GU	1	1	1	0
108	GW	1	1	1	0
108	GY	1	1	1	0
108	HA	1	1	1	0
108	HC	1	1	1	0
108	HE	1	1	1	0
108	HG	1	1	1	0
108	HH	1	1	1	0
108	HK	1	1	1	0
108	HM	1	1	1	0
108	HO	1	1	1	0
108	HQ	1	1	1	0
108	HS	1	1	1	0
108	HU	1	1	1	0
108	HV	1	1	1	0
108	HY	1	1	1	0
108	IA	1	1	1	0
108	IC	1	1	1	0
108	IE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
108	IG	1	Total 1	Mg 1	0
108	II	1	Total 1	Mg 1	0
108	IK	1	Total 1	Mg 1	0
108	IM	1	Total 1	Mg 1	0
108	IO	1	Total 1	Mg 1	0
108	IQ	1	Total 1	Mg 1	0
108	IS	1	Total 1	Mg 1	0
108	IU	1	Total 1	Mg 1	0
108	IW	1	Total 1	Mg 1	0
108	IY	1	Total 1	Mg 1	0
108	JC	1	Total 1	Mg 1	0
108	JE	1	Total 1	Mg 1	0
108	JG	1	Total 1	Mg 1	0
108	JI	1	Total 1	Mg 1	0
108	JK	1	Total 1	Mg 1	0
108	JM	1	Total 1	Mg 1	0
108	JO	1	Total 1	Mg 1	0
108	JQ	1	Total 1	Mg 1	0
108	JS	1	Total 1	Mg 1	0
108	JU	1	Total 1	Mg 1	0
108	JW	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
108	JY	1	Total 1	Mg 1	0
108	KC	1	Total 1	Mg 1	0
108	KE	1	Total 1	Mg 1	0
108	KG	1	Total 1	Mg 1	0
108	KH	1	Total 1	Mg 1	0
108	KK	1	Total 1	Mg 1	0
108	KM	1	Total 1	Mg 1	0
108	KO	1	Total 1	Mg 1	0
108	KQ	1	Total 1	Mg 1	0
108	KS	1	Total 1	Mg 1	0
108	KU	1	Total 1	Mg 1	0
108	KV	1	Total 1	Mg 1	0
108	KY	1	Total 1	Mg 1	0
108	LC	1	Total 1	Mg 1	0
108	LE	1	Total 1	Mg 1	0
108	LG	1	Total 1	Mg 1	0
108	LI	1	Total 1	Mg 1	0
108	LK	1	Total 1	Mg 1	0
108	LM	1	Total 1	Mg 1	0
108	LO	1	Total 1	Mg 1	0
108	LQ	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
108	LS	1	Total 1	Mg 1	0
108	LU	1	Total 1	Mg 1	0
108	LW	1	Total 1	Mg 1	0
108	LY	1	Total 1	Mg 1	0
108	MA	1	Total 1	Mg 1	0
108	MC	1	Total 1	Mg 1	0
108	ME	1	Total 1	Mg 1	0
108	MG	1	Total 1	Mg 1	0
108	MH	1	Total 1	Mg 1	0
108	MK	1	Total 1	Mg 1	0
108	MM	1	Total 1	Mg 1	0
108	MO	1	Total 1	Mg 1	0
108	MQ	1	Total 1	Mg 1	0
108	MS	1	Total 1	Mg 1	0
108	MU	1	Total 1	Mg 1	0
108	MV	1	Total 1	Mg 1	0
108	MY	1	Total 1	Mg 1	0
108	NA	1	Total 1	Mg 1	0
108	NC	1	Total 1	Mg 1	0
108	NE	1	Total 1	Mg 1	0
108	NG	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
108	NI	1	Total 1	Mg 1	0
108	NK	1	Total 1	Mg 1	0
108	NM	1	Total 1	Mg 1	0
108	NO	1	Total 1	Mg 1	0
108	NQ	1	Total 1	Mg 1	0
108	NS	1	Total 1	Mg 1	0
108	NU	1	Total 1	Mg 1	0
108	NW	1	Total 1	Mg 1	0
108	OA	1	Total 1	Mg 1	0
108	OC	1	Total 1	Mg 1	0
108	OE	1	Total 1	Mg 1	0
108	OG	1	Total 1	Mg 1	0
108	OI	1	Total 1	Mg 1	0
108	OK	1	Total 1	Mg 1	0
108	OM	1	Total 1	Mg 1	0
108	OO	1	Total 1	Mg 1	0
108	OQ	1	Total 1	Mg 1	0
108	OS	1	Total 1	Mg 1	0
108	OU	1	Total 1	Mg 1	0
108	OW	1	Total 1	Mg 1	0
108	OY	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	PA	1	1	1	0
108	PC	1	1	1	0
108	PE	1	1	1	0
108	PG	1	1	1	0
108	PI	1	1	1	0
108	PK	1	1	1	0
108	PM	1	1	1	0
108	PO	1	1	1	0
108	PQ	1	1	1	0
108	PS	1	1	1	0
108	PU	1	1	1	0
108	PV	1	1	1	0
108	PY	1	1	1	0
108	QA	1	1	1	0
108	QC	1	1	1	0
108	QE	1	1	1	0
108	QG	1	1	1	0
108	QI	1	1	1	0
108	QK	1	1	1	0
108	QM	1	1	1	0
108	QO	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
108	QQ	1	Total 1	Mg 1	0
108	QS	1	Total 1	Mg 1	0
108	QU	1	Total 1	Mg 1	0
108	QW	1	Total 1	Mg 1	0
108	QY	1	Total 1	Mg 1	0
108	RA	1	Total 1	Mg 1	0
108	RC	1	Total 1	Mg 1	0
108	RE	1	Total 1	Mg 1	0
108	RG	1	Total 1	Mg 1	0
108	RH	1	Total 1	Mg 1	0
108	RK	1	Total 1	Mg 1	0
108	RM	1	Total 1	Mg 1	0
108	RO	1	Total 1	Mg 1	0
108	RQ	1	Total 1	Mg 1	0
108	RS	1	Total 1	Mg 1	0
108	RT	1	Total 1	Mg 1	0
108	RV	1	Total 1	Mg 1	0
108	RY	1	Total 1	Mg 1	0
108	SC	1	Total 1	Mg 1	0
108	SE	1	Total 1	Mg 1	0
108	SG	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	SI	1	1	1	0
108	SK	1	1	1	0
108	SM	1	1	1	0
108	SO	1	1	1	0
108	SQ	1	1	1	0
108	SS	1	1	1	0
108	SU	1	1	1	0
108	SW	1	1	1	0
108	SY	1	1	1	0
108	TB	1	1	1	0
108	TE	1	1	1	0
108	TG	1	1	1	0
108	TI	1	1	1	0
108	TK	1	1	1	0
108	TM	1	1	1	0
108	TO	1	1	1	0
108	TQ	1	1	1	0
108	TS	1	1	1	0
108	TU	1	1	1	0
108	TW	1	1	1	0
108	TY	1	1	1	0

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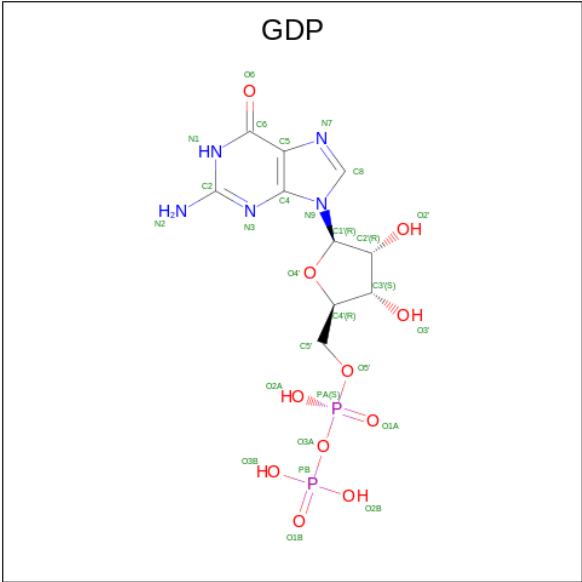
Mol	Chain	Residues	Atoms		AltConf
108	UC	1	Total 1	Mg 1	0
108	UE	1	Total 1	Mg 1	0
108	UG	1	Total 1	Mg 1	0
108	UI	1	Total 1	Mg 1	0
108	UK	1	Total 1	Mg 1	0
108	UM	1	Total 1	Mg 1	0
108	UO	1	Total 1	Mg 1	0
108	UQ	1	Total 1	Mg 1	0
108	US	1	Total 1	Mg 1	0
108	UU	1	Total 1	Mg 1	0
108	UW	1	Total 1	Mg 1	0
108	UY	1	Total 1	Mg 1	0
108	VC	1	Total 1	Mg 1	0
108	VE	1	Total 1	Mg 1	0
108	VG	1	Total 1	Mg 1	0
108	VH	1	Total 1	Mg 1	0
108	VK	1	Total 1	Mg 1	0
108	VM	1	Total 1	Mg 1	0
108	VO	1	Total 1	Mg 1	0
108	VQ	1	Total 1	Mg 1	0
108	VS	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
108	VU	1	Total 1	Mg 1	0
108	VV	1	Total 1	Mg 1	0
108	VY	1	Total 1	Mg 1	0
108	WA	1	Total 1	Mg 1	0
108	WC	1	Total 1	Mg 1	0
108	WE	1	Total 1	Mg 1	0
108	WG	1	Total 1	Mg 1	0
108	WI	1	Total 1	Mg 1	0
108	WK	1	Total 1	Mg 1	0
108	WM	1	Total 1	Mg 1	0
108	WO	1	Total 1	Mg 1	0
108	WQ	1	Total 1	Mg 1	0
108	WS	1	Total 1	Mg 1	0
108	WU	1	Total 1	Mg 1	0
108	WW	1	Total 1	Mg 1	0

- Molecule 109 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	BF	1	28	10	5	11	2	0
109	BH	1	28	10	5	11	2	0
109	BJ	1	28	10	5	11	2	0
109	BL	1	28	10	5	11	2	0
109	BN	1	28	10	5	11	2	0
109	BP	1	28	10	5	11	2	0
109	BR	1	28	10	5	11	2	0
109	BT	1	28	10	5	11	2	0
109	BV	1	28	10	5	11	2	0
109	BX	1	28	10	5	11	2	0
109	CB	1	28	10	5	11	2	0
109	CD	1	28	10	5	11	2	0
109	CF	1	28	10	5	11	2	0
109	CH	1	28	10	5	11	2	0
109	CJ	1	28	10	5	11	2	0
109	CL	1	28	10	5	11	2	0
109	CN	1	28	10	5	11	2	0
109	CP	1	28	10	5	11	2	0
109	CR	1	28	10	5	11	2	0
109	CT	1	28	10	5	11	2	0
109	CV	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
109	CX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	CZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	DZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	EN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	ER	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	ET	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	EZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	FZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GB	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	GD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	GZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	HR	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	HT	1	28	10	5	11	2	0
109	HV	1	28	10	5	11	2	0
109	HX	1	28	10	5	11	2	0
109	HZ	1	28	10	5	11	2	0
109	IB	1	28	10	5	11	2	0
109	ID	1	28	10	5	11	2	0
109	IF	1	28	10	5	11	2	0
109	IH	1	28	10	5	11	2	0
109	IJ	1	28	10	5	11	2	0
109	IL	1	28	10	5	11	2	0
109	IN	1	28	10	5	11	2	0
109	IP	1	28	10	5	11	2	0
109	IR	1	28	10	5	11	2	0
109	IT	1	28	10	5	11	2	0
109	IV	1	28	10	5	11	2	0
109	IX	1	28	10	5	11	2	0
109	JB	1	28	10	5	11	2	0
109	JD	1	28	10	5	11	2	0
109	JF	1	28	10	5	11	2	0
109	JH	1	28	10	5	11	2	0
109	JJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
109	JL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	JZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	KZ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	LB	1	28	10	5	11	2	0
109	LD	1	28	10	5	11	2	0
109	LF	1	28	10	5	11	2	0
109	LH	1	28	10	5	11	2	0
109	LJ	1	28	10	5	11	2	0
109	LL	1	28	10	5	11	2	0
109	LN	1	28	10	5	11	2	0
109	LP	1	28	10	5	11	2	0
109	LR	1	28	10	5	11	2	0
109	LT	1	28	10	5	11	2	0
109	LV	1	28	10	5	11	2	0
109	LX	1	28	10	5	11	2	0
109	LZ	1	28	10	5	11	2	0
109	MD	1	28	10	5	11	2	0
109	MF	1	28	10	5	11	2	0
109	MH	1	28	10	5	11	2	0
109	MJ	1	28	10	5	11	2	0
109	ML	1	28	10	5	11	2	0
109	MN	1	28	10	5	11	2	0
109	MP	1	28	10	5	11	2	0
109	MR	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	MT	1	28	10	5	11	2	0
109	MV	1	28	10	5	11	2	0
109	MX	1	28	10	5	11	2	0
109	MZ	1	28	10	5	11	2	0
109	NB	1	28	10	5	11	2	0
109	ND	1	28	10	5	11	2	0
109	NF	1	28	10	5	11	2	0
109	NH	1	28	10	5	11	2	0
109	NJ	1	28	10	5	11	2	0
109	NL	1	28	10	5	11	2	0
109	NN	1	28	10	5	11	2	0
109	NP	1	28	10	5	11	2	0
109	NR	1	28	10	5	11	2	0
109	NT	1	28	10	5	11	2	0
109	NV	1	28	10	5	11	2	0
109	NX	1	28	10	5	11	2	0
109	NZ	1	28	10	5	11	2	0
109	OB	1	28	10	5	11	2	0
109	OD	1	28	10	5	11	2	0
109	OF	1	28	10	5	11	2	0
109	OH	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
109	OJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	ON	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	OX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	PX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QB	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	QD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	QX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RT	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	RV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	RX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	ST	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	SX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	TN	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	TP	1	Total 28	C 10	N 5	O 11	P 2	0
109	TR	1	Total 28	C 10	N 5	O 11	P 2	0
109	TT	1	Total 28	C 10	N 5	O 11	P 2	0
109	TV	1	Total 28	C 10	N 5	O 11	P 2	0
109	TX	1	Total 28	C 10	N 5	O 11	P 2	0
109	TZ	1	Total 28	C 10	N 5	O 11	P 2	0
109	UB	1	Total 28	C 10	N 5	O 11	P 2	0
109	UD	1	Total 28	C 10	N 5	O 11	P 2	0
109	UF	1	Total 28	C 10	N 5	O 11	P 2	0
109	UH	1	Total 28	C 10	N 5	O 11	P 2	0
109	UJ	1	Total 28	C 10	N 5	O 11	P 2	0
109	UL	1	Total 28	C 10	N 5	O 11	P 2	0
109	UN	1	Total 28	C 10	N 5	O 11	P 2	0
109	UP	1	Total 28	C 10	N 5	O 11	P 2	0
109	UR	1	Total 28	C 10	N 5	O 11	P 2	0
109	UT	1	Total 28	C 10	N 5	O 11	P 2	0
109	UV	1	Total 28	C 10	N 5	O 11	P 2	0
109	UX	1	Total 28	C 10	N 5	O 11	P 2	0
109	UZ	1	Total 28	C 10	N 5	O 11	P 2	0
109	VB	1	Total 28	C 10	N 5	O 11	P 2	0
109	VD	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
109	VF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VT	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VX	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	VZ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WN	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WP	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WR	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WT	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
109	WV	1	Total	C	N	O	P	0
			28	10	5	11	2	
109	WX	1	Total	C	N	O	P	0
			28	10	5	11	2	

MolProbity failed to run properly - this section is therefore empty.

3 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	90482	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 859 ligands modelled in this entry, 285 are monoatomic - leaving 574 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond

length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
109	GDP	UL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	PY	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.51	7 (21%)
109	GDP	NJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	UK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	EJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	RA	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.51	7 (21%)
109	GDP	JP	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	GE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	QP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	CG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	IT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	OD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	PC	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	PB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	CH	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	OK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	HY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	GL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
109	GDP	QL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.25	4 (13%)
109	GDP	UF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	DS	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	AO	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	EI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	MN	502	108	26,34,34	1.15	2 (7%)	32,54,54	1.51	7 (21%)
107	GTP	BQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	WO	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	6 (18%)
109	GDP	BR	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
107	GTP	BK	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	CP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	QC	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.57	6 (18%)
109	GDP	ED	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	VY	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.57	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	EQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	ON	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.36	4 (13%)
107	GTP	CU	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.59	7 (21%)
107	GTP	DW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.67	7 (21%)
107	GTP	WU	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	FP	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	5 (16%)
109	GDP	SX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	LQ	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	ER	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.36	5 (16%)
107	GTP	VG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.52	7 (21%)
107	GTP	JC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
107	GTP	AI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	FG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	7 (21%)
107	GTP	PM	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	DO	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.65	6 (18%)
109	GDP	JJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	QB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	BF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	QH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	CM	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	UJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	IV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	JM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	KW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.51	6 (18%)
109	GDP	VP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	QJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	UV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	DC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	KJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	LP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
107	GTP	UQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	JY	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	JB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	CF	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	KN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	VZ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.25	4 (13%)
109	GDP	WR	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	OB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	RV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	OU	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.65	6 (18%)
107	GTP	BM	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.59	6 (18%)
109	GDP	GP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	BP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	TX	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.25	4 (13%)
107	GTP	ND	502	108	26,34,34	1.10	2 (7%)	32,54,54	1.49	7 (21%)
109	GDP	PL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	DU	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	6 (18%)
107	GTP	QQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	JW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	GZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
107	GTP	WA	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	WD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	HV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	JV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	SH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	JX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	LX	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	VW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.59	6 (18%)
109	GDP	HT	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	SO	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	BJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	SR	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
107	GTP	NQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	KD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	IN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	CL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	KS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	GG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	JD	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	7 (21%)
109	GDP	DN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	AB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	RL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	5 (16%)
109	GDP	MV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	WG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	HL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	FY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.49	7 (21%)
107	GTP	MT	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	UC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	NL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	MG	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	FS	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	WX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	AS	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	EP	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	UN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	LN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	JI	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	VK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.51	7 (21%)
109	GDP	WJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	AX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	TN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	OG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	EL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	4 (13%)
107	GTP	GI	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	MS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	WS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	DJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	EH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	PN	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.53	7 (21%)
107	GTP	VE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.47	6 (18%)
107	GTP	IU	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	KN	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	US	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
107	GTP	HW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	6 (18%)
107	GTP	RW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	SC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	TJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	4 (13%)
109	GDP	DD	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	QA	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	JH	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	JL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	UH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	LW	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	FQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.51	7 (21%)
109	GDP	PT	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	PA	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	TT	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	WL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	SJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	ID	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	RQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	SD	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.32	5 (16%)
107	GTP	MM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	JG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.64	7 (21%)
107	GTP	BE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	DV	501	-	24,30,30	0.89	1 (4%)	30,47,47	1.38	4 (13%)
109	GDP	QN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	RF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	VQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	JR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
107	GTP	WM	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	6 (18%)
109	GDP	NT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	TM	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	CR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	OC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	UU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	UI	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	FJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	TG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
107	GTP	TS	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.51	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	IM	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	FC	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.49	7 (21%)
109	GDP	RX	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	UZ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	GT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	CK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	HN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	QR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	VN	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	TR	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	KQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	WV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	NN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	RT	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.48	7 (21%)
107	GTP	WK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	OX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	PI	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	PN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	PF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	OI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	QG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	QL	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.59	7 (21%)
109	GDP	OT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	IA	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	6 (18%)
107	GTP	KK	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.49	7 (21%)
107	GTP	MC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
109	GDP	GV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	AR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
109	GDP	RH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	EZ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.24	4 (13%)
107	GTP	ME	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.47	7 (21%)
109	GDP	FB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	HS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.49	7 (21%)
109	GDP	SV	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	GW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	OQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.61	6 (18%)
109	GDP	TZ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	RS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	VS	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	NR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	SI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	HP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	UX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	OM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	FF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	DH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	LD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	DL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	EU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	AH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	DR	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	SK	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	BI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	IG	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.68	7 (21%)
107	GTP	IS	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.67	7 (21%)
109	GDP	HX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	WB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	AL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	FX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.22	4 (13%)
107	GTP	WC	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	6 (18%)
109	GDP	LB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	SG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	7 (21%)
107	GTP	GM	501	108	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	OJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
107	GTP	RC	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	PP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	4 (13%)
107	GTP	IK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	TL	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.29	5 (16%)
107	GTP	OW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	CZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	RN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	RJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	ES	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
107	GTP	WE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	VC	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	LM	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
107	GTP	AW	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	CW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	FE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	CC	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	FZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	5 (16%)
107	GTP	FU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	CX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	JJ	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	LZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	GQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	HH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	LH	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.26	4 (13%)
109	GDP	MP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	II	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	QK	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	HR	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	VT	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	QI	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.59	7 (21%)
107	GTP	NC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	VR	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	NI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	BX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	NB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	AF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	MZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	OS	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	TV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	CT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	GC	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.60	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	KZ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	JQ	501	-	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	LR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	IB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	ND	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	RR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
107	GTP	CS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	JD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	SX	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	7 (21%)
107	GTP	RY	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.51	7 (21%)
107	GTP	SE	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.65	7 (21%)
109	GDP	QV	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	SL	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	BV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	DY	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	GO	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.65	7 (21%)
107	GTP	LG	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	HF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	LT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	KP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	TY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	HM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	7 (21%)
107	GTP	UY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	NK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.59	6 (18%)
107	GTP	OA	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	TU	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	GU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	WW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	6 (18%)
107	GTP	OY	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	TI	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	KV	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	EY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	QW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	OP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	MT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	5 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	VD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	LS	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	TN	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	GH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	EO	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	RP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	BU	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	AC	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	BC	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	BY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	UE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	GX	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	SQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	SR	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	8 (25%)
107	GTP	VI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	6 (18%)
109	GDP	JZ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.24	4 (13%)
109	GDP	CJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	EE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	GK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	QF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	IO	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	DM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	FV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	5 (16%)
107	GTP	QU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.64	7 (21%)
109	GDP	FD	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	KI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.51	6 (18%)
107	GTP	NS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	FL	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.26	4 (13%)
109	GDP	DP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	HD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	JO	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	FW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	UP	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	LK	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	PR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	PJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	CN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	IJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	AZ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	HA	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	CB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	KF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	VN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	RI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.50	6 (18%)
107	GTP	HU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	EV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	HF	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.41	6 (18%)
109	GDP	CV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	GR	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	TF	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	WN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	MK	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	AP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	AN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	MY	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	QR	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.51	8 (25%)
107	GTP	ID	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	PD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.26	4 (13%)
109	GDP	MF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	OF	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	IC	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.66	7 (21%)
109	GDP	AJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	QX	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	KM	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	CQ	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	NO	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	HK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	SN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	5 (16%)
107	GTP	IW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	NH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	SB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.37	4 (13%)
109	GDP	MN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	EK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.64	7 (21%)
109	GDP	DX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	KH	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	NV	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	KC	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	UM	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	RB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	VU	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	ML	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	4 (13%)
107	GTP	TB	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	BT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	BN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	AU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	JT	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	JN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	UD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	AK	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	BW	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	HI	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	GD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	WP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	QO	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.61	6 (18%)
109	GDP	EF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	PV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	PS	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	DF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	BA	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
107	GTP	VM	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	HB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	DQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.59	7 (21%)
107	GTP	HN	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	GJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	BB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	VJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	DT	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.26	5 (16%)
107	GTP	UW	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
109	GDP	NX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	NG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	HC	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.52	7 (21%)
107	GTP	QD	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.52	7 (21%)
109	GDP	EX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	MD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	MW	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.58	7 (21%)
107	GTP	HE	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	RT	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
107	GTP	NA	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	AM	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	DI	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.66	7 (21%)
109	GDP	MX	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.31	5 (16%)
109	GDP	SL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
107	GTP	TK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	ET	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	RN	502	108	26,34,34	1.13	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	FR	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	MJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	PG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	KE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	KF	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.53	7 (21%)
107	GTP	PW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	FK	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.51	7 (21%)
107	GTP	IQ	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	TD	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	WH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	CE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
109	GDP	QD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	EG	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	EB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	LU	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	EC	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	LC	501	108	26,34,34	1.17	2 (7%)	32,54,54	1.66	7 (21%)
107	GTP	LI	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
107	GTP	PQ	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.56	6 (18%)
109	GDP	AT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
109	GDP	OH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	MA	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.51	7 (21%)
107	GTP	GR	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.48	7 (21%)
107	GTP	LO	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.63	7 (21%)
109	GDP	LJ	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	5 (16%)
109	GDP	MR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	HQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.51	6 (18%)
107	GTP	BG	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	IL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	UB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	TE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
107	GTP	JR	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	KU	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	VV	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	VF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	WI	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	PH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	UO	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.65	7 (21%)
109	GDP	WT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	WF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	RE	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	DZ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	SF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	5 (16%)
107	GTP	CI	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
107	GTP	AQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	DG	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	OR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	RD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
107	GTP	CY	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	FN	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.21	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	VL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	KY	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	UT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	NU	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	FN	502	-	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
107	GTP	WQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
109	GDP	IX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	NP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	BO	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.59	7 (21%)
107	GTP	FM	501	-	26,34,34	1.17	2 (7%)	32,54,54	1.52	7 (21%)
109	GDP	DB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	IR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	TQ	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	VH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
107	GTP	MQ	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	IF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	ST	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.40	5 (16%)
109	GDP	OL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
107	GTP	OO	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	FI	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.59	7 (21%)
109	GDP	NZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	VX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	JU	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.66	7 (21%)
109	GDP	GX	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	DE	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.54	7 (21%)
109	GDP	NF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	KX	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
107	GTP	TW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.52	7 (21%)
109	GDP	QT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
109	GDP	FT	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	EN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	RM	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	CO	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.56	7 (21%)
107	GTP	AY	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
107	GTP	NL	502	108	26,34,34	1.15	2 (7%)	32,54,54	1.48	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
107	GTP	OE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.63	7 (21%)
107	GTP	IY	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.66	7 (21%)
109	GDP	TP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	4 (13%)
109	GDP	GF	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.25	4 (13%)
107	GTP	LY	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
109	GDP	MH	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	LF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	SP	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	5 (16%)
109	GDP	VB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	IH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	GB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
109	GDP	AV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
107	GTP	EM	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.60	7 (21%)
107	GTP	LE	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.64	7 (21%)
107	GTP	NW	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
109	GDP	OV	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
109	GDP	LV	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.36	4 (13%)
109	GDP	GN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	BS	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	TB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
109	GDP	AD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	RK	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.46	7 (21%)
107	GTP	EW	501	-	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	BL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	UR	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	AG	501	108	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	CD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	BH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
107	GTP	SW	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.57	7 (21%)
109	GDP	HJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
109	GDP	IP	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
107	GTP	SU	501	108	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
109	GDP	KL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	5 (16%)
109	GDP	PX	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	FH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	5 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
109	GDP	TH	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
107	GTP	UG	501	108	26,34,34	1.17	2 (7%)	32,54,54	1.54	7 (21%)
107	GTP	PK	501	108	26,34,34	1.12	2 (7%)	32,54,54	1.51	6 (18%)
107	GTP	MI	501	108	26,34,34	1.17	2 (7%)	32,54,54	1.61	7 (21%)
109	GDP	KB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
109	GDP	BD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
107	GTP	DK	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.69	7 (21%)
107	GTP	PT	502	108	26,34,34	1.14	2 (7%)	32,54,54	1.50	7 (21%)
109	GDP	KT	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
109	GDP	JF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
107	GTP	RF	502	108	26,34,34	1.12	2 (7%)	32,54,54	1.56	8 (25%)
109	GDP	LL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.26	4 (13%)
107	GTP	AE	501	108	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
109	GDP	KR	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.36	5 (16%)
107	GTP	PE	501	108	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
109	GDP	QX	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
109	GDP	HZ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	UL	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PY	501	108	-	6/18/38/38	0/3/3/3
109	GDP	NJ	501	-	-	0/12/32/32	0/3/3/3
107	GTP	UK	501	108	-	3/18/38/38	0/3/3/3
109	GDP	EJ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RA	501	108	-	5/18/38/38	0/3/3/3
109	GDP	JP	501	-	-	0/12/32/32	0/3/3/3
107	GTP	GE	501	108	-	3/18/38/38	0/3/3/3
109	GDP	QP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	CG	501	108	-	6/18/38/38	0/3/3/3
109	GDP	IT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	OD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PC	501	108	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	PB	501	-	-	0/12/32/32	0/3/3/3
109	GDP	CH	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OK	501	108	-	4/18/38/38	0/3/3/3
107	GTP	HY	501	108	-	5/18/38/38	0/3/3/3
109	GDP	GL	501	-	-	0/12/32/32	0/3/3/3
109	GDP	QL	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UF	501	-	-	0/12/32/32	0/3/3/3
107	GTP	DS	501	108	-	4/18/38/38	0/3/3/3
107	GTP	AO	501	108	-	6/18/38/38	0/3/3/3
107	GTP	EI	501	108	-	2/18/38/38	0/3/3/3
107	GTP	MN	502	108	-	6/18/38/38	0/3/3/3
107	GTP	BQ	501	108	-	5/18/38/38	0/3/3/3
107	GTP	WO	501	108	-	5/18/38/38	0/3/3/3
109	GDP	BR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	BK	501	108	-	5/18/38/38	0/3/3/3
109	GDP	CP	501	-	-	2/12/32/32	0/3/3/3
107	GTP	QC	501	108	-	4/18/38/38	0/3/3/3
109	GDP	ED	501	-	-	3/12/32/32	0/3/3/3
107	GTP	VY	501	108	-	5/18/38/38	0/3/3/3
107	GTP	EQ	501	108	-	2/18/38/38	0/3/3/3
109	GDP	ON	501	-	-	1/12/32/32	0/3/3/3
107	GTP	CU	501	108	-	6/18/38/38	0/3/3/3
107	GTP	DW	501	108	-	4/18/38/38	0/3/3/3
107	GTP	WU	501	108	-	4/18/38/38	0/3/3/3
109	GDP	FP	501	-	-	2/12/32/32	0/3/3/3
109	GDP	SX	501	-	-	0/12/32/32	0/3/3/3
107	GTP	LQ	501	108	-	6/18/38/38	0/3/3/3
109	GDP	ER	501	-	-	2/12/32/32	0/3/3/3
107	GTP	VG	501	108	-	5/18/38/38	0/3/3/3
107	GTP	JC	501	108	-	3/18/38/38	0/3/3/3
107	GTP	AI	501	108	-	6/18/38/38	0/3/3/3
107	GTP	FG	501	108	-	4/18/38/38	0/3/3/3
107	GTP	PM	501	108	-	6/18/38/38	0/3/3/3
107	GTP	DO	501	108	-	2/18/38/38	0/3/3/3
109	GDP	JJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	QB	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	BF	501	-	-	2/12/32/32	0/3/3/3
109	GDP	QH	501	-	-	0/12/32/32	0/3/3/3
107	GTP	CM	501	108	-	4/18/38/38	0/3/3/3
109	GDP	UJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	IV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	JM	501	108	-	3/18/38/38	0/3/3/3
107	GTP	KW	501	108	-	5/18/38/38	0/3/3/3
109	GDP	VP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	QJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	DC	501	108	-	3/18/38/38	0/3/3/3
109	GDP	KJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	LP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	UQ	501	108	-	4/18/38/38	0/3/3/3
107	GTP	JY	501	108	-	3/18/38/38	0/3/3/3
109	GDP	JB	501	-	-	0/12/32/32	0/3/3/3
109	GDP	CF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	KN	501	-	-	0/12/32/32	0/3/3/3
109	GDP	VZ	501	-	-	0/12/32/32	0/3/3/3
109	GDP	WR	501	-	-	1/12/32/32	0/3/3/3
109	GDP	OB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OU	501	108	-	4/18/38/38	0/3/3/3
107	GTP	BM	501	108	-	4/18/38/38	0/3/3/3
109	GDP	GP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	BP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	TX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	ND	502	108	-	9/18/38/38	0/3/3/3
109	GDP	PL	501	-	-	0/12/32/32	0/3/3/3
107	GTP	DU	501	108	-	5/18/38/38	0/3/3/3
107	GTP	QQ	501	108	-	3/18/38/38	0/3/3/3
107	GTP	JW	501	108	-	3/18/38/38	0/3/3/3
109	GDP	GZ	501	-	-	0/12/32/32	0/3/3/3
107	GTP	WA	501	108	-	4/18/38/38	0/3/3/3
109	GDP	WD	501	-	-	1/12/32/32	0/3/3/3
109	GDP	HV	501	-	-	0/12/32/32	0/3/3/3
109	GDP	JV	501	-	-	0/12/32/32	0/3/3/3
109	GDP	SH	501	-	-	1/12/32/32	0/3/3/3
109	GDP	JX	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	LX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	VW	501	108	-	6/18/38/38	0/3/3/3
109	GDP	HT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SO	501	108	-	4/18/38/38	0/3/3/3
109	GDP	BJ	501	-	-	2/12/32/32	0/3/3/3
109	GDP	SR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	NQ	501	108	-	3/18/38/38	0/3/3/3
109	GDP	KD	501	-	-	2/12/32/32	0/3/3/3
109	GDP	IN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	CL	501	-	-	4/12/32/32	0/3/3/3
107	GTP	KS	501	108	-	6/18/38/38	0/3/3/3
107	GTP	GG	501	108	-	5/18/38/38	0/3/3/3
107	GTP	JD	502	108	-	6/18/38/38	0/3/3/3
109	GDP	DN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	AB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RL	501	-	-	3/12/32/32	0/3/3/3
109	GDP	MV	501	-	-	2/12/32/32	0/3/3/3
107	GTP	WG	501	108	-	5/18/38/38	0/3/3/3
109	GDP	HL	501	-	-	0/12/32/32	0/3/3/3
107	GTP	FY	501	108	-	4/18/38/38	0/3/3/3
107	GTP	MT	502	108	-	7/18/38/38	0/3/3/3
107	GTP	UC	501	108	-	4/18/38/38	0/3/3/3
109	GDP	NL	501	-	-	0/12/32/32	0/3/3/3
107	GTP	MG	501	108	-	7/18/38/38	0/3/3/3
107	GTP	FS	501	108	-	5/18/38/38	0/3/3/3
109	GDP	WX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	AS	501	108	-	4/18/38/38	0/3/3/3
109	GDP	EP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	LN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	JI	501	108	-	2/18/38/38	0/3/3/3
107	GTP	VK	501	108	-	2/18/38/38	0/3/3/3
109	GDP	WJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	AX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	TN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OG	501	108	-	3/18/38/38	0/3/3/3
109	GDP	EL	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	GI	501	108	-	5/18/38/38	0/3/3/3
107	GTP	MS	501	108	-	7/18/38/38	0/3/3/3
107	GTP	WS	501	108	-	4/18/38/38	0/3/3/3
109	GDP	DJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	EH	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PN	502	108	-	8/18/38/38	0/3/3/3
107	GTP	VE	501	108	-	7/18/38/38	0/3/3/3
107	GTP	IU	501	108	-	3/18/38/38	0/3/3/3
107	GTP	KN	502	108	-	6/18/38/38	0/3/3/3
107	GTP	US	501	108	-	3/18/38/38	0/3/3/3
107	GTP	HW	501	108	-	7/18/38/38	0/3/3/3
107	GTP	RW	501	108	-	6/18/38/38	0/3/3/3
107	GTP	SC	501	108	-	4/18/38/38	0/3/3/3
109	GDP	TJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	DD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	QA	501	108	-	5/18/38/38	0/3/3/3
109	GDP	JH	501	-	-	0/12/32/32	0/3/3/3
109	GDP	JL	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UH	501	-	-	0/12/32/32	0/3/3/3
107	GTP	LW	501	108	-	3/18/38/38	0/3/3/3
107	GTP	FQ	501	108	-	5/18/38/38	0/3/3/3
109	GDP	PT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PA	501	108	-	7/18/38/38	0/3/3/3
109	GDP	TT	501	-	-	4/12/32/32	0/3/3/3
109	GDP	WL	501	-	-	2/12/32/32	0/3/3/3
109	GDP	SJ	501	-	-	0/12/32/32	0/3/3/3
109	GDP	ID	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RQ	501	108	-	5/18/38/38	0/3/3/3
109	GDP	SD	501	-	-	3/12/32/32	0/3/3/3
107	GTP	MM	501	108	-	4/18/38/38	0/3/3/3
107	GTP	JG	501	108	-	3/18/38/38	0/3/3/3
107	GTP	BE	501	108	-	5/18/38/38	0/3/3/3
109	GDP	DV	501	-	-	2/12/32/32	0/3/3/3
109	GDP	QN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RF	501	-	-	0/12/32/32	0/3/3/3
107	GTP	VQ	501	108	-	8/18/38/38	0/3/3/3
109	GDP	JR	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	WM	501	108	-	5/18/38/38	0/3/3/3
109	GDP	NT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	TM	501	108	-	5/18/38/38	0/3/3/3
109	GDP	CR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OC	501	108	-	6/18/38/38	0/3/3/3
107	GTP	UU	501	108	-	5/18/38/38	0/3/3/3
107	GTP	UI	501	108	-	3/18/38/38	0/3/3/3
109	GDP	FJ	501	-	-	2/12/32/32	0/3/3/3
107	GTP	TG	501	108	-	7/18/38/38	0/3/3/3
107	GTP	TS	501	108	-	6/18/38/38	0/3/3/3
107	GTP	IM	501	108	-	5/18/38/38	0/3/3/3
107	GTP	FC	501	108	-	5/18/38/38	0/3/3/3
109	GDP	RX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UZ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	GT	501	-	-	0/12/32/32	0/3/3/3
107	GTP	CK	501	108	-	9/18/38/38	0/3/3/3
109	GDP	HN	501	-	-	0/12/32/32	0/3/3/3
109	GDP	QR	501	-	-	2/12/32/32	0/3/3/3
107	GTP	VN	502	108	-	9/18/38/38	0/3/3/3
109	GDP	TR	501	-	-	3/12/32/32	0/3/3/3
107	GTP	KQ	501	108	-	5/18/38/38	0/3/3/3
109	GDP	WV	501	-	-	1/12/32/32	0/3/3/3
109	GDP	NN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RT	502	108	-	5/18/38/38	0/3/3/3
107	GTP	WK	501	108	-	5/18/38/38	0/3/3/3
109	GDP	OX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PI	501	108	-	5/18/38/38	0/3/3/3
109	GDP	PN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	PF	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OI	501	108	-	6/18/38/38	0/3/3/3
107	GTP	QG	501	108	-	2/18/38/38	0/3/3/3
107	GTP	QL	502	108	-	3/18/38/38	0/3/3/3
109	GDP	OT	501	-	-	0/12/32/32	0/3/3/3
107	GTP	IA	501	108	-	6/18/38/38	0/3/3/3
107	GTP	KK	501	108	-	5/18/38/38	0/3/3/3
107	GTP	MC	501	108	-	6/18/38/38	0/3/3/3
109	GDP	GV	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	AR	501	-	-	3/12/32/32	0/3/3/3
109	GDP	RH	501	-	-	3/12/32/32	0/3/3/3
109	GDP	EZ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	ME	501	108	-	8/18/38/38	0/3/3/3
109	GDP	FB	501	-	-	4/12/32/32	0/3/3/3
107	GTP	HS	501	108	-	6/18/38/38	0/3/3/3
109	GDP	SV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	GW	501	108	-	6/18/38/38	0/3/3/3
107	GTP	OQ	501	108	-	4/18/38/38	0/3/3/3
109	GDP	TZ	501	-	-	4/12/32/32	0/3/3/3
107	GTP	RS	501	108	-	5/18/38/38	0/3/3/3
107	GTP	VS	501	108	-	8/18/38/38	0/3/3/3
109	GDP	NR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SI	501	108	-	3/18/38/38	0/3/3/3
109	GDP	HP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	OM	501	108	-	5/18/38/38	0/3/3/3
109	GDP	FF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	DH	501	-	-	2/12/32/32	0/3/3/3
109	GDP	LD	501	-	-	2/12/32/32	0/3/3/3
109	GDP	DL	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EU	501	108	-	1/18/38/38	0/3/3/3
109	GDP	AH	501	-	-	0/12/32/32	0/3/3/3
109	GDP	DR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SK	501	108	-	3/18/38/38	0/3/3/3
107	GTP	BI	501	108	-	5/18/38/38	0/3/3/3
107	GTP	IG	501	108	-	7/18/38/38	0/3/3/3
107	GTP	IS	501	108	-	3/18/38/38	0/3/3/3
109	GDP	HX	501	-	-	0/12/32/32	0/3/3/3
109	GDP	WB	501	-	-	2/12/32/32	0/3/3/3
109	GDP	AL	501	-	-	1/12/32/32	0/3/3/3
109	GDP	FX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	WC	501	108	-	6/18/38/38	0/3/3/3
109	GDP	LB	501	-	-	2/12/32/32	0/3/3/3
107	GTP	SG	501	108	-	5/18/38/38	0/3/3/3
107	GTP	GM	501	108	-	4/18/38/38	0/3/3/3
109	GDP	OJ	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	RC	501	108	-	5/18/38/38	0/3/3/3
109	GDP	PP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	IK	501	108	-	4/18/38/38	0/3/3/3
109	GDP	TL	501	-	-	2/12/32/32	0/3/3/3
107	GTP	OW	501	108	-	4/18/38/38	0/3/3/3
109	GDP	CZ	501	-	-	3/12/32/32	0/3/3/3
109	GDP	RN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RJ	501	-	-	0/12/32/32	0/3/3/3
107	GTP	ES	501	108	-	3/18/38/38	0/3/3/3
107	GTP	WE	501	108	-	4/18/38/38	0/3/3/3
107	GTP	VC	501	108	-	9/18/38/38	0/3/3/3
107	GTP	LM	501	108	-	4/18/38/38	0/3/3/3
107	GTP	AW	501	108	-	5/18/38/38	0/3/3/3
107	GTP	CW	501	108	-	7/18/38/38	0/3/3/3
107	GTP	FE	501	108	-	6/18/38/38	0/3/3/3
107	GTP	CC	501	108	-	8/18/38/38	0/3/3/3
109	GDP	FZ	501	-	-	2/12/32/32	0/3/3/3
107	GTP	FU	501	108	-	5/18/38/38	0/3/3/3
109	GDP	CX	501	-	-	3/12/32/32	0/3/3/3
107	GTP	JJ	502	108	-	3/18/38/38	0/3/3/3
109	GDP	LZ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	GQ	501	108	-	4/18/38/38	0/3/3/3
109	GDP	HH	501	-	-	0/12/32/32	0/3/3/3
109	GDP	LH	501	-	-	0/12/32/32	0/3/3/3
109	GDP	MP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	II	501	108	-	4/18/38/38	0/3/3/3
107	GTP	QK	501	108	-	2/18/38/38	0/3/3/3
109	GDP	HR	501	-	-	1/12/32/32	0/3/3/3
109	GDP	VT	501	-	-	0/12/32/32	0/3/3/3
107	GTP	QI	501	108	-	3/18/38/38	0/3/3/3
107	GTP	NC	501	108	-	5/18/38/38	0/3/3/3
109	GDP	VR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	NI	501	108	-	3/18/38/38	0/3/3/3
109	GDP	BX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	NB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	AF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	MZ	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	OS	501	108	-	5/18/38/38	0/3/3/3
109	GDP	TV	501	-	-	3/12/32/32	0/3/3/3
109	GDP	CT	501	-	-	3/12/32/32	0/3/3/3
107	GTP	GC	501	108	-	4/18/38/38	0/3/3/3
109	GDP	KZ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	JQ	501	-	-	4/18/38/38	0/3/3/3
109	GDP	LR	501	-	-	3/12/32/32	0/3/3/3
109	GDP	IB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	ND	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RR	501	-	-	3/12/32/32	0/3/3/3
107	GTP	CS	501	108	-	4/18/38/38	0/3/3/3
109	GDP	JD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SX	502	108	-	4/18/38/38	0/3/3/3
107	GTP	RY	501	108	-	5/18/38/38	0/3/3/3
107	GTP	SE	501	108	-	2/18/38/38	0/3/3/3
109	GDP	QV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SL	502	108	-	3/18/38/38	0/3/3/3
109	GDP	BV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	DY	501	108	-	4/18/38/38	0/3/3/3
107	GTP	GO	501	108	-	4/18/38/38	0/3/3/3
107	GTP	LG	501	108	-	6/18/38/38	0/3/3/3
109	GDP	HF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	LT	501	-	-	4/12/32/32	0/3/3/3
109	GDP	KP	501	-	-	2/12/32/32	0/3/3/3
107	GTP	TY	501	108	-	5/18/38/38	0/3/3/3
107	GTP	HM	501	108	-	7/18/38/38	0/3/3/3
107	GTP	UY	501	108	-	3/18/38/38	0/3/3/3
107	GTP	NK	501	108	-	4/18/38/38	0/3/3/3
107	GTP	OA	501	108	-	8/18/38/38	0/3/3/3
107	GTP	TU	501	108	-	8/18/38/38	0/3/3/3
107	GTP	GU	501	108	-	5/18/38/38	0/3/3/3
107	GTP	WW	501	108	-	6/18/38/38	0/3/3/3
107	GTP	OY	501	108	-	4/18/38/38	0/3/3/3
107	GTP	TI	501	108	-	5/18/38/38	0/3/3/3
109	GDP	KV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EY	501	108	-	3/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	QW	501	108	-	3/18/38/38	0/3/3/3
109	GDP	OP	501	-	-	0/12/32/32	0/3/3/3
109	GDP	MT	501	-	-	2/12/32/32	0/3/3/3
109	GDP	VD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	LS	501	108	-	6/18/38/38	0/3/3/3
107	GTP	TN	502	108	-	6/18/38/38	0/3/3/3
109	GDP	GH	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EO	501	108	-	2/18/38/38	0/3/3/3
109	GDP	RP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	BU	501	108	-	5/18/38/38	0/3/3/3
107	GTP	AC	501	108	-	4/18/38/38	0/3/3/3
107	GTP	BC	501	108	-	6/18/38/38	0/3/3/3
107	GTP	BY	501	108	-	6/18/38/38	0/3/3/3
107	GTP	UE	501	108	-	4/18/38/38	0/3/3/3
107	GTP	GX	502	108	-	6/18/38/38	0/3/3/3
107	GTP	SQ	501	108	-	3/18/38/38	0/3/3/3
107	GTP	SR	502	108	-	5/18/38/38	0/3/3/3
107	GTP	VI	501	108	-	8/18/38/38	0/3/3/3
109	GDP	JZ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	CJ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EE	501	108	-	3/18/38/38	0/3/3/3
107	GTP	GK	501	108	-	4/18/38/38	0/3/3/3
109	GDP	QF	501	-	-	1/12/32/32	0/3/3/3
107	GTP	IO	501	108	-	6/18/38/38	0/3/3/3
107	GTP	DM	501	108	-	1/18/38/38	0/3/3/3
109	GDP	FV	501	-	-	4/12/32/32	0/3/3/3
107	GTP	QU	501	108	-	2/18/38/38	0/3/3/3
109	GDP	FD	501	-	-	4/12/32/32	0/3/3/3
107	GTP	KI	501	108	-	7/18/38/38	0/3/3/3
107	GTP	NS	501	108	-	3/18/38/38	0/3/3/3
109	GDP	FL	501	-	-	4/12/32/32	0/3/3/3
109	GDP	DP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	HD	501	-	-	0/12/32/32	0/3/3/3
107	GTP	JO	501	108	-	2/18/38/38	0/3/3/3
107	GTP	FW	501	108	-	10/18/38/38	0/3/3/3
109	GDP	UP	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	LK	501	108	-	5/18/38/38	0/3/3/3
109	GDP	PR	501	-	-	0/12/32/32	0/3/3/3
109	GDP	PJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	CN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	IJ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	AZ	501	108	-	5/18/38/38	0/3/3/3
107	GTP	HA	501	108	-	5/18/38/38	0/3/3/3
109	GDP	CB	501	-	-	3/12/32/32	0/3/3/3
109	GDP	KF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	VN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RI	501	108	-	6/18/38/38	0/3/3/3
107	GTP	HU	501	108	-	8/18/38/38	0/3/3/3
109	GDP	EV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	HF	502	108	-	8/18/38/38	0/3/3/3
109	GDP	CV	501	-	-	0/12/32/32	0/3/3/3
109	GDP	GR	501	-	-	2/12/32/32	0/3/3/3
109	GDP	TF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	WN	501	-	-	2/12/32/32	0/3/3/3
107	GTP	MK	501	108	-	4/18/38/38	0/3/3/3
109	GDP	AP	501	-	-	1/12/32/32	0/3/3/3
109	GDP	AN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	MY	501	108	-	3/18/38/38	0/3/3/3
107	GTP	QR	502	108	-	3/18/38/38	0/3/3/3
107	GTP	ID	502	108	-	4/18/38/38	0/3/3/3
109	GDP	PD	501	-	-	0/12/32/32	0/3/3/3
109	GDP	MF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	OF	501	-	-	1/12/32/32	0/3/3/3
107	GTP	IC	501	108	-	7/18/38/38	0/3/3/3
109	GDP	AJ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	QX	502	108	-	3/18/38/38	0/3/3/3
107	GTP	KM	501	108	-	5/18/38/38	0/3/3/3
107	GTP	CQ	501	108	-	9/18/38/38	0/3/3/3
107	GTP	NO	501	108	-	5/18/38/38	0/3/3/3
107	GTP	HK	501	108	-	4/18/38/38	0/3/3/3
109	GDP	SN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	IW	501	108	-	3/18/38/38	0/3/3/3
109	GDP	NH	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	SB	501	-	-	3/12/32/32	0/3/3/3
109	GDP	MN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EK	501	108	-	3/18/38/38	0/3/3/3
109	GDP	DX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	KH	501	-	-	1/12/32/32	0/3/3/3
109	GDP	NV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	KC	501	108	-	6/18/38/38	0/3/3/3
107	GTP	UM	501	108	-	4/18/38/38	0/3/3/3
109	GDP	RB	501	-	-	0/12/32/32	0/3/3/3
107	GTP	VU	501	108	-	7/18/38/38	0/3/3/3
109	GDP	ML	501	-	-	1/12/32/32	0/3/3/3
107	GTP	TB	502	108	-	8/18/38/38	0/3/3/3
109	GDP	BT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	BN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	AU	501	108	-	4/18/38/38	0/3/3/3
109	GDP	JT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	JN	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	AK	501	108	-	4/18/38/38	0/3/3/3
107	GTP	BW	501	108	-	5/18/38/38	0/3/3/3
107	GTP	HI	501	108	-	7/18/38/38	0/3/3/3
109	GDP	GD	501	-	-	2/12/32/32	0/3/3/3
109	GDP	WP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	QO	501	108	-	2/18/38/38	0/3/3/3
109	GDP	EF	501	-	-	0/12/32/32	0/3/3/3
109	GDP	PV	501	-	-	0/12/32/32	0/3/3/3
107	GTP	PS	501	108	-	8/18/38/38	0/3/3/3
109	GDP	DF	501	-	-	1/12/32/32	0/3/3/3
107	GTP	BA	501	108	-	4/18/38/38	0/3/3/3
107	GTP	VM	501	108	-	9/18/38/38	0/3/3/3
109	GDP	HB	501	-	-	1/12/32/32	0/3/3/3
107	GTP	DQ	501	108	-	3/18/38/38	0/3/3/3
107	GTP	HN	502	108	-	7/18/38/38	0/3/3/3
109	GDP	GJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	BB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	VJ	501	-	-	0/12/32/32	0/3/3/3
109	GDP	DT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	UW	501	108	-	3/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	NX	501	-	-	0/12/32/32	0/3/3/3
107	GTP	NG	501	108	-	6/18/38/38	0/3/3/3
107	GTP	HC	501	108	-	9/18/38/38	0/3/3/3
107	GTP	QD	502	108	-	4/18/38/38	0/3/3/3
109	GDP	EX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	MD	501	-	-	4/12/32/32	0/3/3/3
107	GTP	MW	501	108	-	6/18/38/38	0/3/3/3
107	GTP	HE	501	108	-	7/18/38/38	0/3/3/3
109	GDP	RT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	NA	501	108	-	9/18/38/38	0/3/3/3
107	GTP	AM	501	108	-	3/18/38/38	0/3/3/3
107	GTP	DI	501	108	-	4/18/38/38	0/3/3/3
109	GDP	MX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	SL	501	-	-	1/12/32/32	0/3/3/3
107	GTP	TK	501	108	-	5/18/38/38	0/3/3/3
109	GDP	ET	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RN	502	108	-	6/18/38/38	0/3/3/3
109	GDP	FR	501	-	-	4/12/32/32	0/3/3/3
109	GDP	MJ	501	-	-	1/12/32/32	0/3/3/3
107	GTP	PG	501	108	-	5/18/38/38	0/3/3/3
107	GTP	KE	501	108	-	6/18/38/38	0/3/3/3
107	GTP	KF	502	108	-	7/18/38/38	0/3/3/3
107	GTP	PW	501	108	-	5/18/38/38	0/3/3/3
107	GTP	FK	501	108	-	6/18/38/38	0/3/3/3
107	GTP	IQ	501	108	-	5/18/38/38	0/3/3/3
109	GDP	TD	501	-	-	3/12/32/32	0/3/3/3
109	GDP	WH	501	-	-	1/12/32/32	0/3/3/3
107	GTP	CE	501	108	-	5/18/38/38	0/3/3/3
109	GDP	QD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EG	501	108	-	3/18/38/38	0/3/3/3
109	GDP	EB	501	-	-	3/12/32/32	0/3/3/3
107	GTP	LU	501	108	-	6/18/38/38	0/3/3/3
107	GTP	EC	501	108	-	6/18/38/38	0/3/3/3
107	GTP	LC	501	108	-	4/18/38/38	0/3/3/3
107	GTP	LI	501	108	-	3/18/38/38	0/3/3/3
107	GTP	PQ	501	108	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	AT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	OH	501	-	-	1/12/32/32	0/3/3/3
107	GTP	MA	501	108	-	4/18/38/38	0/3/3/3
107	GTP	GR	502	108	-	6/18/38/38	0/3/3/3
107	GTP	LO	501	108	-	4/18/38/38	0/3/3/3
109	GDP	LJ	501	-	-	0/12/32/32	0/3/3/3
109	GDP	MR	501	-	-	2/12/32/32	0/3/3/3
107	GTP	HQ	501	108	-	9/18/38/38	0/3/3/3
107	GTP	BG	501	108	-	6/18/38/38	0/3/3/3
109	GDP	IL	501	-	-	0/12/32/32	0/3/3/3
109	GDP	UB	501	-	-	1/12/32/32	0/3/3/3
107	GTP	TE	501	108	-	7/18/38/38	0/3/3/3
107	GTP	JR	502	108	-	4/18/38/38	0/3/3/3
107	GTP	KU	501	108	-	6/18/38/38	0/3/3/3
109	GDP	VV	501	-	-	0/12/32/32	0/3/3/3
109	GDP	VF	501	-	-	0/12/32/32	0/3/3/3
107	GTP	WI	501	108	-	3/18/38/38	0/3/3/3
109	GDP	PH	501	-	-	0/12/32/32	0/3/3/3
107	GTP	UO	501	108	-	5/18/38/38	0/3/3/3
109	GDP	WT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	WF	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RE	501	108	-	5/18/38/38	0/3/3/3
109	GDP	DZ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	SF	501	-	-	0/12/32/32	0/3/3/3
107	GTP	CI	501	108	-	4/18/38/38	0/3/3/3
107	GTP	AQ	501	108	-	5/18/38/38	0/3/3/3
107	GTP	DG	501	108	-	5/18/38/38	0/3/3/3
109	GDP	OR	501	-	-	1/12/32/32	0/3/3/3
109	GDP	RD	501	-	-	3/12/32/32	0/3/3/3
107	GTP	CY	501	108	-	8/18/38/38	0/3/3/3
109	GDP	FN	501	-	-	2/12/32/32	0/3/3/3
109	GDP	VL	501	-	-	0/12/32/32	0/3/3/3
107	GTP	KY	501	108	-	4/18/38/38	0/3/3/3
109	GDP	UT	501	-	-	1/12/32/32	0/3/3/3
107	GTP	NU	501	108	-	4/18/38/38	0/3/3/3
107	GTP	FN	502	-	-	4/18/38/38	0/3/3/3
107	GTP	WQ	501	108	-	4/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	IX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	NP	501	-	-	0/12/32/32	0/3/3/3
107	GTP	BO	501	108	-	6/18/38/38	0/3/3/3
107	GTP	FM	501	-	-	5/18/38/38	0/3/3/3
109	GDP	DB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	IR	501	-	-	0/12/32/32	0/3/3/3
107	GTP	TQ	501	108	-	6/18/38/38	0/3/3/3
109	GDP	VH	501	-	-	0/12/32/32	0/3/3/3
107	GTP	MQ	501	108	-	7/18/38/38	0/3/3/3
109	GDP	IF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	ST	501	-	-	1/12/32/32	0/3/3/3
109	GDP	OL	501	-	-	0/12/32/32	0/3/3/3
107	GTP	OO	501	108	-	6/18/38/38	0/3/3/3
107	GTP	FI	501	108	-	9/18/38/38	0/3/3/3
109	GDP	NZ	501	-	-	0/12/32/32	0/3/3/3
109	GDP	VX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	JU	501	108	-	2/18/38/38	0/3/3/3
109	GDP	GX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	DE	501	108	-	3/18/38/38	0/3/3/3
109	GDP	NF	501	-	-	1/12/32/32	0/3/3/3
109	GDP	KX	501	-	-	1/12/32/32	0/3/3/3
107	GTP	TW	501	108	-	4/18/38/38	0/3/3/3
109	GDP	QT	501	-	-	0/12/32/32	0/3/3/3
109	GDP	FT	501	-	-	0/12/32/32	0/3/3/3
109	GDP	EN	501	-	-	2/12/32/32	0/3/3/3
107	GTP	RM	501	108	-	4/18/38/38	0/3/3/3
107	GTP	CO	501	108	-	5/18/38/38	0/3/3/3
107	GTP	AY	501	108	-	4/18/38/38	0/3/3/3
107	GTP	NL	502	108	-	6/18/38/38	0/3/3/3
107	GTP	OE	501	108	-	3/18/38/38	0/3/3/3
107	GTP	IY	501	108	-	5/18/38/38	0/3/3/3
109	GDP	TP	501	-	-	0/12/32/32	0/3/3/3
109	GDP	GF	501	-	-	2/12/32/32	0/3/3/3
107	GTP	LY	501	108	-	3/18/38/38	0/3/3/3
109	GDP	MH	501	-	-	0/12/32/32	0/3/3/3
109	GDP	LF	501	-	-	3/12/32/32	0/3/3/3
109	GDP	SP	501	-	-	0/12/32/32	0/3/3/3
109	GDP	VB	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
109	GDP	IH	501	-	-	1/12/32/32	0/3/3/3
109	GDP	GB	501	-	-	3/12/32/32	0/3/3/3
109	GDP	AV	501	-	-	1/12/32/32	0/3/3/3
107	GTP	EM	501	108	-	2/18/38/38	0/3/3/3
107	GTP	LE	501	108	-	5/18/38/38	0/3/3/3
107	GTP	NW	501	108	-	4/18/38/38	0/3/3/3
109	GDP	OV	501	-	-	1/12/32/32	0/3/3/3
109	GDP	LV	501	-	-	1/12/32/32	0/3/3/3
109	GDP	GN	501	-	-	1/12/32/32	0/3/3/3
107	GTP	BS	501	108	-	6/18/38/38	0/3/3/3
109	GDP	TB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	AD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	RK	501	108	-	5/18/38/38	0/3/3/3
107	GTP	EW	501	-	-	3/18/38/38	0/3/3/3
109	GDP	BL	501	-	-	1/12/32/32	0/3/3/3
109	GDP	UR	501	-	-	1/12/32/32	0/3/3/3
107	GTP	AG	501	108	-	4/18/38/38	0/3/3/3
109	GDP	CD	501	-	-	2/12/32/32	0/3/3/3
109	GDP	BH	501	-	-	0/12/32/32	0/3/3/3
107	GTP	SW	501	108	-	3/18/38/38	0/3/3/3
109	GDP	HJ	501	-	-	1/12/32/32	0/3/3/3
109	GDP	IP	501	-	-	1/12/32/32	0/3/3/3
107	GTP	SU	501	108	-	3/18/38/38	0/3/3/3
109	GDP	KL	501	-	-	0/12/32/32	0/3/3/3
109	GDP	PX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	FH	501	-	-	3/12/32/32	0/3/3/3
109	GDP	TH	501	-	-	3/12/32/32	0/3/3/3
107	GTP	UG	501	108	-	7/18/38/38	0/3/3/3
107	GTP	PK	501	108	-	6/18/38/38	0/3/3/3
107	GTP	MI	501	108	-	6/18/38/38	0/3/3/3
109	GDP	KB	501	-	-	1/12/32/32	0/3/3/3
109	GDP	BD	501	-	-	1/12/32/32	0/3/3/3
107	GTP	DK	501	108	-	4/18/38/38	0/3/3/3
107	GTP	PT	502	108	-	9/18/38/38	0/3/3/3
109	GDP	KT	501	-	-	1/12/32/32	0/3/3/3
109	GDP	JF	501	-	-	0/12/32/32	0/3/3/3
107	GTP	RF	502	108	-	7/18/38/38	0/3/3/3
109	GDP	LL	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
107	GTP	AE	501	108	-	4/18/38/38	0/3/3/3
109	GDP	KR	501	-	-	4/12/32/32	0/3/3/3
107	GTP	PE	501	108	-	8/18/38/38	0/3/3/3
109	GDP	QX	501	-	-	1/12/32/32	0/3/3/3
109	GDP	HZ	501	-	-	0/12/32/32	0/3/3/3

All (859) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	FM	501	GTP	C5-C6	-4.22	1.38	1.47
107	UG	501	GTP	C5-C6	-4.20	1.38	1.47
107	MI	501	GTP	C5-C6	-4.18	1.38	1.47
107	GM	501	GTP	C5-C6	-4.18	1.38	1.47
107	TI	501	GTP	C5-C6	-4.17	1.38	1.47
107	TM	501	GTP	C5-C6	-4.17	1.38	1.47
107	SO	501	GTP	C5-C6	-4.16	1.39	1.47
107	KM	501	GTP	C5-C6	-4.15	1.39	1.47
107	RM	501	GTP	C5-C6	-4.14	1.39	1.47
107	HE	501	GTP	C5-C6	-4.14	1.39	1.47
107	LC	501	GTP	C5-C6	-4.13	1.39	1.47
107	LW	501	GTP	C5-C6	-4.13	1.39	1.47
107	LE	501	GTP	C5-C6	-4.13	1.39	1.47
107	BO	501	GTP	C5-C6	-4.13	1.39	1.47
107	BW	501	GTP	C5-C6	-4.12	1.39	1.47
107	JU	501	GTP	C5-C6	-4.12	1.39	1.47
107	TU	501	GTP	C5-C6	-4.12	1.39	1.47
107	SU	501	GTP	C5-C6	-4.12	1.39	1.47
107	SK	501	GTP	C5-C6	-4.12	1.39	1.47
107	KU	501	GTP	C5-C6	-4.12	1.39	1.47
107	DC	501	GTP	C5-C6	-4.11	1.39	1.47
107	MW	501	GTP	C5-C6	-4.11	1.39	1.47
107	BU	501	GTP	C5-C6	-4.11	1.39	1.47
107	SC	501	GTP	C5-C6	-4.11	1.39	1.47
107	SE	501	GTP	C5-C6	-4.11	1.39	1.47
107	UW	501	GTP	C5-C6	-4.11	1.39	1.47
107	VU	501	GTP	C5-C6	-4.10	1.39	1.47
107	BG	501	GTP	C5-C6	-4.10	1.39	1.47
107	AS	501	GTP	C5-C6	-4.10	1.39	1.47
107	MG	501	GTP	C5-C6	-4.10	1.39	1.47
107	JQ	501	GTP	C5-C6	-4.10	1.39	1.47
107	RK	501	GTP	C5-C6	-4.10	1.39	1.47
107	NL	502	GTP	C5-C6	-4.09	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	SR	502	GTP	C5-C6	-4.09	1.39	1.47
107	UO	501	GTP	C5-C6	-4.09	1.39	1.47
107	ES	501	GTP	C5-C6	-4.09	1.39	1.47
107	MK	501	GTP	C5-C6	-4.09	1.39	1.47
107	BA	501	GTP	C5-C6	-4.09	1.39	1.47
107	BC	501	GTP	C5-C6	-4.09	1.39	1.47
107	OC	501	GTP	C5-C6	-4.09	1.39	1.47
107	JD	502	GTP	C5-C6	-4.09	1.39	1.47
107	TY	501	GTP	C5-C6	-4.09	1.39	1.47
107	LU	501	GTP	C5-C6	-4.09	1.39	1.47
107	TW	501	GTP	C5-C6	-4.09	1.39	1.47
107	OO	501	GTP	C5-C6	-4.09	1.39	1.47
107	ME	501	GTP	C5-C6	-4.08	1.39	1.47
107	LI	501	GTP	C5-C6	-4.08	1.39	1.47
107	AO	501	GTP	C5-C6	-4.08	1.39	1.47
107	LQ	501	GTP	C5-C6	-4.08	1.39	1.47
107	KI	501	GTP	C5-C6	-4.08	1.39	1.47
107	GG	501	GTP	C5-C6	-4.08	1.39	1.47
107	SQ	501	GTP	C5-C6	-4.08	1.39	1.47
107	MN	502	GTP	C5-C6	-4.08	1.39	1.47
107	UC	501	GTP	C5-C6	-4.08	1.39	1.47
107	SI	501	GTP	C5-C6	-4.08	1.39	1.47
107	LO	501	GTP	C5-C6	-4.08	1.39	1.47
107	GW	501	GTP	C5-C6	-4.08	1.39	1.47
107	BS	501	GTP	C5-C6	-4.07	1.39	1.47
107	SG	501	GTP	C5-C6	-4.07	1.39	1.47
107	SX	502	GTP	C5-C6	-4.07	1.39	1.47
107	KW	501	GTP	C5-C6	-4.07	1.39	1.47
107	MQ	501	GTP	C5-C6	-4.07	1.39	1.47
107	MT	502	GTP	C5-C6	-4.07	1.39	1.47
107	AK	501	GTP	C5-C6	-4.07	1.39	1.47
107	BY	501	GTP	C5-C6	-4.07	1.39	1.47
107	EY	501	GTP	C5-C6	-4.07	1.39	1.47
107	OG	501	GTP	C5-C6	-4.07	1.39	1.47
107	SL	502	GTP	C5-C6	-4.07	1.39	1.47
107	CC	501	GTP	C5-C6	-4.07	1.39	1.47
107	OY	501	GTP	C5-C6	-4.07	1.39	1.47
107	CQ	501	GTP	C5-C6	-4.07	1.39	1.47
107	MC	501	GTP	C5-C6	-4.07	1.39	1.47
107	LS	501	GTP	C5-C6	-4.07	1.39	1.47
107	VI	501	GTP	C5-C6	-4.06	1.39	1.47
107	GO	501	GTP	C5-C6	-4.06	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	HU	501	GTP	C5-C6	-4.06	1.39	1.47
107	LM	501	GTP	C5-C6	-4.06	1.39	1.47
107	OM	501	GTP	C5-C6	-4.06	1.39	1.47
107	QK	501	GTP	C5-C6	-4.06	1.39	1.47
107	JY	501	GTP	C5-C6	-4.06	1.39	1.47
107	MA	501	GTP	C5-C6	-4.06	1.39	1.47
107	MS	501	GTP	C5-C6	-4.06	1.39	1.47
107	NC	501	GTP	C5-C6	-4.06	1.39	1.47
107	NO	501	GTP	C5-C6	-4.06	1.39	1.47
107	UU	501	GTP	C5-C6	-4.06	1.39	1.47
107	JM	501	GTP	C5-C6	-4.06	1.39	1.47
107	LG	501	GTP	C5-C6	-4.06	1.39	1.47
107	AZ	501	GTP	C5-C6	-4.06	1.39	1.47
107	RC	501	GTP	C5-C6	-4.06	1.39	1.47
107	FK	501	GTP	C5-C6	-4.06	1.39	1.47
107	UM	501	GTP	C5-C6	-4.06	1.39	1.47
107	KE	501	GTP	C5-C6	-4.06	1.39	1.47
107	MY	501	GTP	C5-C6	-4.06	1.39	1.47
107	QA	501	GTP	C5-C6	-4.06	1.39	1.47
107	EI	501	GTP	C5-C6	-4.06	1.39	1.47
107	OI	501	GTP	C5-C6	-4.06	1.39	1.47
107	KQ	501	GTP	C5-C6	-4.06	1.39	1.47
107	PT	502	GTP	C5-C6	-4.06	1.39	1.47
107	RA	501	GTP	C5-C6	-4.06	1.39	1.47
107	AQ	501	GTP	C5-C6	-4.05	1.39	1.47
107	NG	501	GTP	C5-C6	-4.05	1.39	1.47
107	NU	501	GTP	C5-C6	-4.05	1.39	1.47
107	PW	501	GTP	C5-C6	-4.05	1.39	1.47
107	RI	501	GTP	C5-C6	-4.05	1.39	1.47
107	EW	501	GTP	C5-C6	-4.05	1.39	1.47
107	NS	501	GTP	C5-C6	-4.05	1.39	1.47
107	RQ	501	GTP	C5-C6	-4.05	1.39	1.47
107	AW	501	GTP	C5-C6	-4.05	1.39	1.47
107	FG	501	GTP	C5-C6	-4.05	1.39	1.47
107	JC	501	GTP	C5-C6	-4.05	1.39	1.47
107	RT	502	GTP	C5-C6	-4.05	1.39	1.47
107	LY	501	GTP	C5-C6	-4.05	1.39	1.47
107	GU	501	GTP	C5-C6	-4.05	1.39	1.47
107	EQ	501	GTP	C5-C6	-4.05	1.39	1.47
107	KK	501	GTP	C5-C6	-4.05	1.39	1.47
107	KS	501	GTP	C5-C6	-4.05	1.39	1.47
107	EK	501	GTP	C5-C6	-4.05	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	LK	501	GTP	C5-C6	-4.05	1.39	1.47
107	HY	501	GTP	C5-C6	-4.05	1.39	1.47
107	JR	502	GTP	C5-C6	-4.05	1.39	1.47
107	KN	502	GTP	C5-C6	-4.05	1.39	1.47
107	JJ	502	GTP	C5-C6	-4.04	1.39	1.47
107	JI	501	GTP	C5-C6	-4.04	1.39	1.47
107	GK	501	GTP	C5-C6	-4.04	1.39	1.47
107	EC	501	GTP	C5-C6	-4.04	1.39	1.47
107	FU	501	GTP	C5-C6	-4.04	1.39	1.47
107	OW	501	GTP	C5-C6	-4.04	1.39	1.47
107	RW	501	GTP	C5-C6	-4.04	1.39	1.47
107	MM	501	GTP	C5-C6	-4.04	1.39	1.47
107	AC	501	GTP	C5-C6	-4.04	1.39	1.47
107	NQ	501	GTP	C5-C6	-4.04	1.39	1.47
107	FC	501	GTP	C5-C6	-4.04	1.39	1.47
107	BE	501	GTP	C5-C6	-4.04	1.39	1.47
107	GE	501	GTP	C5-C6	-4.04	1.39	1.47
107	US	501	GTP	C5-C6	-4.04	1.39	1.47
107	RS	501	GTP	C5-C6	-4.04	1.39	1.47
107	PS	501	GTP	C5-C6	-4.03	1.39	1.47
107	BI	501	GTP	C5-C6	-4.03	1.39	1.47
107	KY	501	GTP	C5-C6	-4.03	1.39	1.47
107	NI	501	GTP	C5-C6	-4.03	1.39	1.47
107	GI	501	GTP	C5-C6	-4.03	1.39	1.47
107	KF	502	GTP	C5-C6	-4.03	1.39	1.47
107	VQ	501	GTP	C5-C6	-4.03	1.39	1.47
107	AM	501	GTP	C5-C6	-4.03	1.39	1.47
107	AY	501	GTP	C5-C6	-4.03	1.39	1.47
107	DI	501	GTP	C5-C6	-4.03	1.39	1.47
107	HK	501	GTP	C5-C6	-4.03	1.39	1.47
107	QU	501	GTP	C5-C6	-4.03	1.39	1.47
107	AE	501	GTP	C5-C6	-4.03	1.39	1.47
107	SW	501	GTP	C5-C6	-4.03	1.39	1.47
107	VW	501	GTP	C5-C6	-4.03	1.39	1.47
107	GQ	501	GTP	C5-C6	-4.03	1.39	1.47
107	HM	501	GTP	C5-C6	-4.03	1.39	1.47
107	HS	501	GTP	C5-C6	-4.03	1.39	1.47
107	PM	501	GTP	C5-C6	-4.03	1.39	1.47
107	DK	501	GTP	C5-C6	-4.03	1.39	1.47
107	CE	501	GTP	C5-C6	-4.03	1.39	1.47
107	EG	501	GTP	C5-C6	-4.03	1.39	1.47
107	JW	501	GTP	C5-C6	-4.03	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	UI	501	GTP	C5-C6	-4.03	1.39	1.47
107	DM	501	GTP	C5-C6	-4.03	1.39	1.47
107	OE	501	GTP	C5-C6	-4.03	1.39	1.47
107	UE	501	GTP	C5-C6	-4.03	1.39	1.47
107	NA	501	GTP	C5-C6	-4.02	1.39	1.47
107	QG	501	GTP	C5-C6	-4.02	1.39	1.47
107	WE	501	GTP	C5-C6	-4.02	1.39	1.47
107	NW	501	GTP	C5-C6	-4.02	1.39	1.47
107	FW	501	GTP	C5-C6	-4.02	1.39	1.47
107	OK	501	GTP	C5-C6	-4.02	1.39	1.47
107	TG	501	GTP	C5-C6	-4.02	1.39	1.47
107	IK	501	GTP	C5-C6	-4.02	1.39	1.47
107	IO	501	GTP	C5-C6	-4.02	1.39	1.47
107	TK	501	GTP	C5-C6	-4.02	1.39	1.47
107	EE	501	GTP	C5-C6	-4.02	1.39	1.47
107	EU	501	GTP	C5-C6	-4.02	1.39	1.47
107	QD	502	GTP	C5-C6	-4.02	1.39	1.47
107	TQ	501	GTP	C5-C6	-4.02	1.39	1.47
107	UY	501	GTP	C5-C6	-4.02	1.39	1.47
107	CS	501	GTP	C5-C6	-4.02	1.39	1.47
107	AG	501	GTP	C5-C6	-4.02	1.39	1.47
107	HA	501	GTP	C5-C6	-4.02	1.39	1.47
107	OS	501	GTP	C5-C6	-4.02	1.39	1.47
107	DW	501	GTP	C5-C6	-4.02	1.39	1.47
107	FQ	501	GTP	C5-C6	-4.02	1.39	1.47
107	CK	501	GTP	C5-C6	-4.02	1.39	1.47
107	FS	501	GTP	C5-C6	-4.02	1.39	1.47
107	QQ	501	GTP	C5-C6	-4.02	1.39	1.47
107	IW	501	GTP	C5-C6	-4.01	1.39	1.47
107	GC	501	GTP	C5-C6	-4.01	1.39	1.47
107	GX	502	GTP	C5-C6	-4.01	1.39	1.47
107	RN	502	GTP	C5-C6	-4.01	1.39	1.47
107	UK	501	GTP	C5-C6	-4.01	1.39	1.47
107	BQ	501	GTP	C5-C6	-4.01	1.39	1.47
107	AU	501	GTP	C5-C6	-4.01	1.39	1.47
107	EO	501	GTP	C5-C6	-4.01	1.39	1.47
107	II	501	GTP	C5-C6	-4.01	1.39	1.47
107	BM	501	GTP	C5-C6	-4.01	1.39	1.47
107	CG	501	GTP	C5-C6	-4.01	1.39	1.47
107	CI	501	GTP	C5-C6	-4.01	1.39	1.47
107	AI	501	GTP	C5-C6	-4.01	1.39	1.47
107	HF	502	GTP	C5-C6	-4.01	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	JG	501	GTP	C5-C6	-4.01	1.39	1.47
107	FI	501	GTP	C5-C6	-4.00	1.39	1.47
107	RF	502	GTP	C5-C6	-4.00	1.39	1.47
107	OQ	501	GTP	C5-C6	-4.00	1.39	1.47
107	HI	501	GTP	C5-C6	-4.00	1.39	1.47
107	TE	501	GTP	C5-C6	-4.00	1.39	1.47
107	BK	501	GTP	C5-C6	-4.00	1.39	1.47
107	QR	502	GTP	C5-C6	-4.00	1.39	1.47
107	DG	501	GTP	C5-C6	-4.00	1.39	1.47
107	RY	501	GTP	C5-C6	-4.00	1.39	1.47
107	PY	501	GTP	C5-C6	-4.00	1.39	1.47
107	OA	501	GTP	C5-C6	-4.00	1.39	1.47
107	PA	501	GTP	C5-C6	-4.00	1.39	1.47
107	WS	501	GTP	C5-C6	-4.00	1.39	1.47
107	FE	501	GTP	C5-C6	-4.00	1.39	1.47
107	IA	501	GTP	C5-C6	-4.00	1.39	1.47
107	PG	501	GTP	C5-C6	-4.00	1.39	1.47
107	DY	501	GTP	C5-C6	-4.00	1.39	1.47
107	QC	501	GTP	C5-C6	-4.00	1.39	1.47
107	QL	502	GTP	C5-C6	-3.99	1.39	1.47
107	RE	501	GTP	C5-C6	-3.99	1.39	1.47
107	ID	502	GTP	C5-C6	-3.99	1.39	1.47
107	WG	501	GTP	C5-C6	-3.99	1.39	1.47
107	WQ	501	GTP	C5-C6	-3.99	1.39	1.47
107	HC	501	GTP	C5-C6	-3.99	1.39	1.47
107	QW	501	GTP	C5-C6	-3.99	1.39	1.47
107	GR	502	GTP	C5-C6	-3.99	1.39	1.47
107	VG	501	GTP	C5-C6	-3.99	1.39	1.47
107	UQ	501	GTP	C5-C6	-3.99	1.39	1.47
107	HW	501	GTP	C5-C6	-3.99	1.39	1.47
107	JO	501	GTP	C5-C6	-3.99	1.39	1.47
107	WO	501	GTP	C5-C6	-3.99	1.39	1.47
107	IY	501	GTP	C5-C6	-3.99	1.39	1.47
107	FN	502	GTP	C5-C6	-3.99	1.39	1.47
107	PE	501	GTP	C5-C6	-3.99	1.39	1.47
107	CW	501	GTP	C5-C6	-3.99	1.39	1.47
107	QO	501	GTP	C5-C6	-3.99	1.39	1.47
107	CY	501	GTP	C5-C6	-3.99	1.39	1.47
107	KC	501	GTP	C5-C6	-3.99	1.39	1.47
107	PC	501	GTP	C5-C6	-3.99	1.39	1.47
107	PN	502	GTP	C5-C6	-3.98	1.39	1.47
107	FY	501	GTP	C5-C6	-3.98	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	CM	501	GTP	C5-C6	-3.98	1.39	1.47
107	WK	501	GTP	C5-C6	-3.98	1.39	1.47
107	DS	501	GTP	C5-C6	-3.98	1.39	1.47
107	IS	501	GTP	C5-C6	-3.98	1.39	1.47
107	VN	502	GTP	C5-C6	-3.98	1.39	1.47
107	TS	501	GTP	C5-C6	-3.98	1.39	1.47
107	IQ	501	GTP	C5-C6	-3.98	1.39	1.47
107	IM	501	GTP	C5-C6	-3.98	1.39	1.47
107	WU	501	GTP	C5-C6	-3.98	1.39	1.47
107	HN	502	GTP	C5-C6	-3.97	1.39	1.47
107	IC	501	GTP	C5-C6	-3.97	1.39	1.47
107	TN	502	GTP	C5-C6	-3.97	1.39	1.47
107	IG	501	GTP	C5-C6	-3.97	1.39	1.47
107	DU	501	GTP	C5-C6	-3.97	1.39	1.47
107	IU	501	GTP	C5-C6	-3.97	1.39	1.47
107	QX	502	GTP	C5-C6	-3.97	1.39	1.47
107	NK	501	GTP	C5-C6	-3.97	1.39	1.47
107	VS	501	GTP	C5-C6	-3.96	1.39	1.47
107	HQ	501	GTP	C5-C6	-3.96	1.39	1.47
107	PQ	501	GTP	C5-C6	-3.96	1.39	1.47
107	DQ	501	GTP	C5-C6	-3.96	1.39	1.47
107	CU	501	GTP	C5-C6	-3.95	1.39	1.47
107	QI	501	GTP	C5-C6	-3.95	1.39	1.47
107	VC	501	GTP	C5-C6	-3.95	1.39	1.47
107	OU	501	GTP	C5-C6	-3.95	1.39	1.47
107	VK	501	GTP	C5-C6	-3.95	1.39	1.47
107	TB	502	GTP	C5-C6	-3.94	1.39	1.47
107	WC	501	GTP	C5-C6	-3.94	1.39	1.47
107	DO	501	GTP	C5-C6	-3.94	1.39	1.47
107	WA	501	GTP	C5-C6	-3.94	1.39	1.47
107	DE	501	GTP	C5-C6	-3.94	1.39	1.47
107	EM	501	GTP	C5-C6	-3.93	1.39	1.47
107	WI	501	GTP	C5-C6	-3.93	1.39	1.47
107	VM	501	GTP	C5-C6	-3.93	1.39	1.47
107	WM	501	GTP	C5-C6	-3.93	1.39	1.47
107	ND	502	GTP	C5-C6	-3.92	1.39	1.47
107	CO	501	GTP	C5-C6	-3.92	1.39	1.47
107	WW	501	GTP	C5-C6	-3.92	1.39	1.47
107	PI	501	GTP	C5-C6	-3.92	1.39	1.47
107	VY	501	GTP	C5-C6	-3.91	1.39	1.47
107	PK	501	GTP	C5-C6	-3.88	1.39	1.47
107	VE	501	GTP	C5-C6	-3.87	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	EP	501	GDP	C6-N1	-2.57	1.34	1.37
109	RN	501	GDP	C6-N1	-2.57	1.34	1.37
109	ER	501	GDP	C6-N1	-2.56	1.34	1.37
109	DD	501	GDP	C6-N1	-2.55	1.34	1.37
109	EB	501	GDP	C6-N1	-2.55	1.34	1.37
109	RP	501	GDP	C6-N1	-2.55	1.34	1.37
109	JB	501	GDP	C6-N1	-2.54	1.34	1.37
109	RF	501	GDP	C6-N1	-2.53	1.34	1.37
109	RT	501	GDP	C6-N1	-2.53	1.34	1.37
109	CJ	501	GDP	C6-N1	-2.52	1.34	1.37
109	LR	501	GDP	C6-N1	-2.52	1.34	1.37
109	SP	501	GDP	C6-N1	-2.52	1.34	1.37
109	LB	501	GDP	C6-N1	-2.51	1.34	1.37
109	EF	501	GDP	C6-N1	-2.51	1.34	1.37
109	DT	501	GDP	C6-N1	-2.51	1.34	1.37
109	IP	501	GDP	C6-N1	-2.50	1.34	1.37
109	KP	501	GDP	C6-N1	-2.50	1.34	1.37
109	AN	501	GDP	C6-N1	-2.50	1.34	1.37
109	JZ	501	GDP	C6-N1	-2.50	1.34	1.37
109	DH	501	GDP	C6-N1	-2.50	1.34	1.37
109	LN	501	GDP	C6-N1	-2.50	1.34	1.37
109	KB	501	GDP	C6-N1	-2.49	1.34	1.37
109	MF	501	GDP	C6-N1	-2.49	1.34	1.37
109	SR	501	GDP	C6-N1	-2.49	1.34	1.37
109	ED	501	GDP	C6-N1	-2.49	1.34	1.37
109	FF	501	GDP	C6-N1	-2.49	1.34	1.37
109	WX	501	GDP	C6-N1	-2.49	1.34	1.37
109	RB	501	GDP	C6-N1	-2.49	1.34	1.37
109	VV	501	GDP	C6-N1	-2.49	1.34	1.37
109	DR	501	GDP	C6-N1	-2.49	1.34	1.37
109	SV	501	GDP	C6-N1	-2.49	1.34	1.37
109	SL	501	GDP	C6-N1	-2.49	1.34	1.37
109	MZ	501	GDP	C6-N1	-2.48	1.34	1.37
109	SX	501	GDP	C6-N1	-2.48	1.34	1.37
109	EJ	501	GDP	C6-N1	-2.48	1.34	1.37
109	AP	501	GDP	C6-N1	-2.48	1.34	1.37
109	DB	501	GDP	C6-N1	-2.48	1.34	1.37
109	MP	501	GDP	C6-N1	-2.48	1.34	1.37
109	RX	501	GDP	C6-N1	-2.48	1.34	1.37
109	BF	501	GDP	C6-N1	-2.48	1.34	1.37
109	FH	501	GDP	C6-N1	-2.47	1.34	1.37
109	JP	501	GDP	C6-N1	-2.47	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	RH	501	GDP	C6-N1	-2.47	1.34	1.37
109	SH	501	GDP	C6-N1	-2.47	1.34	1.37
109	KF	501	GDP	C6-N1	-2.47	1.34	1.37
109	SN	501	GDP	C6-N1	-2.47	1.34	1.37
109	FT	501	GDP	C6-N1	-2.47	1.34	1.37
109	DX	501	GDP	C6-N1	-2.47	1.34	1.37
109	EX	501	GDP	C6-N1	-2.47	1.34	1.37
109	RD	501	GDP	C6-N1	-2.47	1.34	1.37
109	CX	501	GDP	C6-N1	-2.47	1.34	1.37
109	IR	501	GDP	C6-N1	-2.47	1.34	1.37
109	KT	501	GDP	C6-N1	-2.46	1.34	1.37
109	MJ	501	GDP	C6-N1	-2.46	1.34	1.37
109	WH	501	GDP	C6-N1	-2.46	1.34	1.37
109	HD	501	GDP	C6-N1	-2.46	1.34	1.37
109	PT	501	GDP	C6-N1	-2.46	1.34	1.37
109	JR	501	GDP	C6-N1	-2.46	1.34	1.37
109	JT	501	GDP	C6-N1	-2.46	1.34	1.37
109	SF	501	GDP	C6-N1	-2.46	1.34	1.37
109	ML	501	GDP	C6-N1	-2.46	1.34	1.37
109	QH	501	GDP	C6-N1	-2.46	1.34	1.37
109	DL	501	GDP	C6-N1	-2.46	1.34	1.37
109	KH	501	GDP	C6-N1	-2.46	1.34	1.37
109	QL	501	GDP	C6-N1	-2.46	1.34	1.37
109	VL	501	GDP	C6-N1	-2.45	1.34	1.37
109	FN	501	GDP	C6-N1	-2.45	1.34	1.37
109	BP	501	GDP	C6-N1	-2.45	1.34	1.37
109	BR	501	GDP	C6-N1	-2.45	1.34	1.37
109	RJ	501	GDP	C6-N1	-2.45	1.34	1.37
109	WP	501	GDP	C6-N1	-2.45	1.34	1.37
109	FX	501	GDP	C6-N1	-2.45	1.34	1.37
109	LP	501	GDP	C6-N1	-2.45	1.34	1.37
109	AJ	501	GDP	C6-N1	-2.45	1.34	1.37
109	GP	501	GDP	C6-N1	-2.45	1.34	1.37
109	WD	501	GDP	C6-N1	-2.45	1.34	1.37
109	BV	501	GDP	C6-N1	-2.45	1.34	1.37
109	IX	501	GDP	C6-N1	-2.45	1.34	1.37
109	MR	501	GDP	C6-N1	-2.45	1.34	1.37
109	AL	501	GDP	C6-N1	-2.45	1.34	1.37
109	BB	501	GDP	C6-N1	-2.45	1.34	1.37
109	VN	501	GDP	C6-N1	-2.45	1.34	1.37
109	CL	501	GDP	C6-N1	-2.45	1.34	1.37
109	KX	501	GDP	C6-N1	-2.45	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	UH	501	GDP	C6-N1	-2.45	1.34	1.37
109	UP	501	GDP	C6-N1	-2.45	1.34	1.37
109	VT	501	GDP	C6-N1	-2.45	1.34	1.37
109	EN	501	GDP	C6-N1	-2.45	1.34	1.37
109	HL	501	GDP	C6-N1	-2.45	1.34	1.37
109	LD	501	GDP	C6-N1	-2.45	1.34	1.37
109	NX	501	GDP	C6-N1	-2.44	1.34	1.37
109	VF	501	GDP	C6-N1	-2.44	1.34	1.37
109	AT	501	GDP	C6-N1	-2.44	1.34	1.37
109	HR	501	GDP	C6-N1	-2.44	1.34	1.37
109	JN	501	GDP	C6-N1	-2.44	1.34	1.37
109	FJ	501	GDP	C6-N1	-2.44	1.34	1.37
109	NB	501	GDP	C6-N1	-2.44	1.34	1.37
109	RV	501	GDP	C6-N1	-2.44	1.34	1.37
109	JJ	501	GDP	C6-N1	-2.44	1.34	1.37
109	UN	501	GDP	C6-N1	-2.44	1.34	1.37
109	SB	501	GDP	C6-N1	-2.44	1.34	1.37
109	AF	501	GDP	C6-N1	-2.44	1.34	1.37
109	BJ	501	GDP	C6-N1	-2.44	1.34	1.37
109	AB	501	GDP	C6-N1	-2.44	1.34	1.37
109	PH	501	GDP	C6-N1	-2.44	1.34	1.37
109	FP	501	GDP	C6-N1	-2.44	1.34	1.37
109	ID	501	GDP	C6-N1	-2.44	1.34	1.37
109	UX	501	GDP	C6-N1	-2.44	1.34	1.37
109	VH	501	GDP	C6-N1	-2.44	1.34	1.37
109	AD	501	GDP	C6-N1	-2.43	1.34	1.37
109	ST	501	GDP	C6-N1	-2.43	1.34	1.37
109	TB	501	GDP	C6-N1	-2.43	1.34	1.37
109	IJ	501	GDP	C6-N1	-2.43	1.34	1.37
109	WN	501	GDP	C6-N1	-2.43	1.34	1.37
109	BH	501	GDP	C6-N1	-2.43	1.34	1.37
109	PD	501	GDP	C6-N1	-2.43	1.34	1.37
109	JX	501	GDP	C6-N1	-2.43	1.34	1.37
109	WB	501	GDP	C6-N1	-2.43	1.34	1.37
109	KJ	501	GDP	C6-N1	-2.43	1.34	1.37
109	JL	501	GDP	C6-N1	-2.43	1.34	1.37
109	LL	501	GDP	C6-N1	-2.43	1.34	1.37
109	UV	501	GDP	C6-N1	-2.43	1.34	1.37
109	NJ	501	GDP	C6-N1	-2.43	1.34	1.37
109	CF	501	GDP	C6-N1	-2.43	1.34	1.37
109	PB	501	GDP	C6-N1	-2.43	1.34	1.37
109	AR	501	GDP	C6-N1	-2.43	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	JD	501	GDP	C6-N1	-2.43	1.34	1.37
109	KN	501	GDP	C6-N1	-2.43	1.34	1.37
109	IH	501	GDP	C6-N1	-2.43	1.34	1.37
109	NR	501	GDP	C6-N1	-2.43	1.34	1.37
109	WJ	501	GDP	C6-N1	-2.43	1.34	1.37
109	LZ	501	GDP	C6-N1	-2.42	1.34	1.37
109	CR	501	GDP	C6-N1	-2.42	1.34	1.37
109	EL	501	GDP	C6-N1	-2.42	1.34	1.37
109	CP	501	GDP	C6-N1	-2.42	1.34	1.37
109	NP	501	GDP	C6-N1	-2.42	1.34	1.37
109	QD	501	GDP	C6-N1	-2.42	1.34	1.37
109	ET	501	GDP	C6-N1	-2.42	1.34	1.37
109	KR	501	GDP	C6-N1	-2.42	1.34	1.37
109	BT	501	GDP	C6-N1	-2.42	1.34	1.37
109	KZ	501	GDP	C6-N1	-2.42	1.34	1.37
109	LF	501	GDP	C6-N1	-2.42	1.34	1.37
109	OT	501	GDP	C6-N1	-2.42	1.34	1.37
109	QF	501	GDP	C6-N1	-2.42	1.34	1.37
109	VP	501	GDP	C6-N1	-2.42	1.34	1.37
109	QR	501	GDP	C6-N1	-2.42	1.34	1.37
109	QP	501	GDP	C6-N1	-2.42	1.34	1.37
109	WR	501	GDP	C6-N1	-2.42	1.34	1.37
109	KD	501	GDP	C6-N1	-2.42	1.34	1.37
109	LT	501	GDP	C6-N1	-2.42	1.34	1.37
109	MH	501	GDP	C6-N1	-2.42	1.34	1.37
109	EH	501	GDP	C6-N1	-2.42	1.34	1.37
109	KL	501	GDP	C6-N1	-2.42	1.34	1.37
109	QX	501	GDP	C6-N1	-2.42	1.34	1.37
109	UR	501	GDP	C6-N1	-2.42	1.34	1.37
109	CN	501	GDP	C6-N1	-2.42	1.34	1.37
109	ND	501	GDP	C6-N1	-2.42	1.34	1.37
109	PX	501	GDP	C6-N1	-2.42	1.34	1.37
109	BX	501	GDP	C6-N1	-2.42	1.34	1.37
109	NN	501	GDP	C6-N1	-2.42	1.34	1.37
109	OD	501	GDP	C6-N1	-2.42	1.34	1.37
109	AV	501	GDP	C6-N1	-2.41	1.34	1.37
109	FZ	501	GDP	C6-N1	-2.41	1.34	1.37
109	HB	501	GDP	C6-N1	-2.41	1.34	1.37
109	HH	501	GDP	C6-N1	-2.41	1.34	1.37
109	HT	501	GDP	C6-N1	-2.41	1.34	1.37
109	MN	501	GDP	C6-N1	-2.41	1.34	1.37
109	PF	501	GDP	C6-N1	-2.41	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	UD	501	GDP	C6-N1	-2.41	1.34	1.37
109	GH	501	GDP	C6-N1	-2.41	1.34	1.37
109	CT	501	GDP	C6-N1	-2.41	1.34	1.37
109	MD	501	GDP	C6-N1	-2.41	1.34	1.37
109	NT	501	GDP	C6-N1	-2.41	1.34	1.37
109	AX	501	GDP	C6-N1	-2.41	1.34	1.37
109	GT	501	GDP	C6-N1	-2.41	1.34	1.37
109	NL	501	GDP	C6-N1	-2.41	1.34	1.37
109	RR	501	GDP	C6-N1	-2.41	1.34	1.37
109	VR	501	GDP	C6-N1	-2.41	1.34	1.37
109	DF	501	GDP	C6-N1	-2.41	1.34	1.37
109	GZ	501	GDP	C6-N1	-2.41	1.34	1.37
109	OL	501	GDP	C6-N1	-2.41	1.34	1.37
109	AH	501	GDP	C6-N1	-2.41	1.34	1.37
109	CD	501	GDP	C6-N1	-2.41	1.34	1.37
109	IN	501	GDP	C6-N1	-2.41	1.34	1.37
109	UL	501	GDP	C6-N1	-2.41	1.34	1.37
109	EV	501	GDP	C6-N1	-2.41	1.34	1.37
109	GB	501	GDP	C6-N1	-2.41	1.34	1.37
109	GD	501	GDP	C6-N1	-2.41	1.34	1.37
109	JH	501	GDP	C6-N1	-2.41	1.34	1.37
109	PL	501	GDP	C6-N1	-2.41	1.34	1.37
109	NH	501	GDP	C6-N1	-2.41	1.34	1.37
109	NV	501	GDP	C6-N1	-2.41	1.34	1.37
109	QN	501	GDP	C6-N1	-2.41	1.34	1.37
109	UJ	501	GDP	C6-N1	-2.41	1.34	1.37
109	GX	501	GDP	C6-N1	-2.40	1.34	1.37
109	NZ	501	GDP	C6-N1	-2.40	1.34	1.37
109	BN	501	GDP	C6-N1	-2.40	1.34	1.37
109	LX	501	GDP	C6-N1	-2.40	1.34	1.37
109	FV	501	GDP	C6-N1	-2.40	1.34	1.37
109	NF	501	GDP	C6-N1	-2.40	1.34	1.37
109	BD	501	GDP	C6-N1	-2.40	1.34	1.37
109	JV	501	GDP	C6-N1	-2.40	1.34	1.37
109	TH	501	GDP	C6-N1	-2.40	1.34	1.37
109	FB	501	GDP	C6-N1	-2.40	1.34	1.37
109	QT	501	GDP	C6-N1	-2.40	1.34	1.37
109	OH	501	GDP	C6-N1	-2.40	1.34	1.37
109	WV	501	GDP	C6-N1	-2.40	1.34	1.37
109	MX	501	GDP	C6-N1	-2.40	1.34	1.37
109	MV	501	GDP	C6-N1	-2.40	1.34	1.37
109	HP	501	GDP	C6-N1	-2.40	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	CB	501	GDP	C6-N1	-2.40	1.34	1.37
109	DN	501	GDP	C6-N1	-2.40	1.34	1.37
109	GV	501	GDP	C6-N1	-2.40	1.34	1.37
109	IT	501	GDP	C6-N1	-2.40	1.34	1.37
109	OR	501	GDP	C6-N1	-2.40	1.34	1.37
109	TF	501	GDP	C6-N1	-2.40	1.34	1.37
109	WT	501	GDP	C6-N1	-2.40	1.34	1.37
109	UT	501	GDP	C6-N1	-2.40	1.34	1.37
109	EZ	501	GDP	C6-N1	-2.39	1.34	1.37
109	OB	501	GDP	C6-N1	-2.39	1.34	1.37
109	IB	501	GDP	C6-N1	-2.39	1.34	1.37
109	PP	501	GDP	C6-N1	-2.39	1.34	1.37
109	HV	501	GDP	C6-N1	-2.39	1.34	1.37
109	HZ	501	GDP	C6-N1	-2.39	1.34	1.37
109	OP	501	GDP	C6-N1	-2.39	1.34	1.37
109	JF	501	GDP	C6-N1	-2.39	1.34	1.37
109	MT	501	GDP	C6-N1	-2.39	1.34	1.37
109	PN	501	GDP	C6-N1	-2.39	1.34	1.37
109	CH	501	GDP	C6-N1	-2.39	1.34	1.37
109	TD	501	GDP	C6-N1	-2.39	1.34	1.37
109	QJ	501	GDP	C6-N1	-2.39	1.34	1.37
109	GJ	501	GDP	C6-N1	-2.39	1.34	1.37
109	KV	501	GDP	C6-N1	-2.39	1.34	1.37
109	BL	501	GDP	C6-N1	-2.39	1.34	1.37
109	DZ	501	GDP	C6-N1	-2.39	1.34	1.37
109	GL	501	GDP	C6-N1	-2.39	1.34	1.37
109	HN	501	GDP	C6-N1	-2.39	1.34	1.37
109	LV	501	GDP	C6-N1	-2.38	1.34	1.37
109	TZ	501	GDP	C6-N1	-2.38	1.34	1.37
109	OJ	501	GDP	C6-N1	-2.38	1.34	1.37
109	TP	501	GDP	C6-N1	-2.38	1.34	1.37
109	WL	501	GDP	C6-N1	-2.38	1.34	1.37
109	DJ	501	GDP	C6-N1	-2.38	1.34	1.37
109	LJ	501	GDP	C6-N1	-2.38	1.34	1.37
109	UZ	501	GDP	C6-N1	-2.38	1.34	1.37
109	PR	501	GDP	C6-N1	-2.38	1.34	1.37
109	VJ	501	GDP	C6-N1	-2.38	1.34	1.37
109	RL	501	GDP	C6-N1	-2.38	1.34	1.37
109	SD	501	GDP	C6-N1	-2.38	1.34	1.37
109	HJ	501	GDP	C6-N1	-2.38	1.34	1.37
109	OX	501	GDP	C6-N1	-2.38	1.34	1.37
109	FL	501	GDP	C6-N1	-2.38	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	TL	501	GDP	C6-N1	-2.38	1.34	1.37
109	DP	501	GDP	C6-N1	-2.37	1.34	1.37
109	UF	501	GDP	C6-N1	-2.37	1.34	1.37
109	FD	501	GDP	C6-N1	-2.37	1.34	1.37
109	OF	501	GDP	C6-N1	-2.37	1.34	1.37
109	WF	501	GDP	C6-N1	-2.37	1.34	1.37
109	HF	501	GDP	C6-N1	-2.37	1.34	1.37
109	VB	501	GDP	C6-N1	-2.37	1.34	1.37
109	IV	501	GDP	C6-N1	-2.37	1.34	1.37
109	TT	501	GDP	C6-N1	-2.37	1.34	1.37
109	PV	501	GDP	C6-N1	-2.36	1.34	1.37
109	IL	501	GDP	C6-N1	-2.36	1.34	1.37
109	CZ	501	GDP	C6-N1	-2.36	1.34	1.37
109	HX	501	GDP	C6-N1	-2.36	1.34	1.37
109	LH	501	GDP	C6-N1	-2.36	1.34	1.37
109	TV	501	GDP	C6-N1	-2.36	1.34	1.37
109	TX	501	GDP	C6-N1	-2.35	1.34	1.37
109	ON	501	GDP	C6-N1	-2.35	1.34	1.37
109	TR	501	GDP	C6-N1	-2.35	1.34	1.37
109	VX	501	GDP	C6-N1	-2.35	1.34	1.37
109	GF	501	GDP	C6-N1	-2.35	1.34	1.37
109	GR	501	GDP	C6-N1	-2.35	1.34	1.37
109	UB	501	GDP	C6-N1	-2.35	1.34	1.37
109	SJ	501	GDP	C6-N1	-2.35	1.34	1.37
109	VZ	501	GDP	C6-N1	-2.34	1.34	1.37
109	PJ	501	GDP	C6-N1	-2.34	1.34	1.37
109	TN	501	GDP	C6-N1	-2.34	1.34	1.37
109	FR	501	GDP	C6-N1	-2.34	1.34	1.37
109	TJ	501	GDP	C6-N1	-2.34	1.34	1.37
109	IF	501	GDP	C6-N1	-2.34	1.34	1.37
109	OV	501	GDP	C6-N1	-2.33	1.34	1.37
109	CV	501	GDP	C6-N1	-2.33	1.34	1.37
109	GN	501	GDP	C6-N1	-2.31	1.34	1.37
109	VD	501	GDP	C6-N1	-2.30	1.34	1.37
109	QB	501	GDP	C6-N1	-2.30	1.34	1.37
109	QV	501	GDP	C6-N1	-2.28	1.34	1.37
107	DC	501	GTP	C2-N3	2.27	1.38	1.33
107	PT	502	GTP	C2-N3	2.26	1.38	1.33
107	TM	501	GTP	C2-N3	2.26	1.38	1.33
107	DQ	501	GTP	C2-N3	2.26	1.38	1.33
107	OY	501	GTP	C2-N3	2.25	1.38	1.33
107	HU	501	GTP	C2-N3	2.25	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	LC	501	GTP	C2-N3	2.25	1.38	1.33
107	QQ	501	GTP	C2-N3	2.25	1.38	1.33
107	OQ	501	GTP	C2-N3	2.25	1.38	1.33
107	QW	501	GTP	C2-N3	2.25	1.38	1.33
107	OE	501	GTP	C2-N3	2.25	1.38	1.33
107	SU	501	GTP	C2-N3	2.24	1.38	1.33
107	HQ	501	GTP	C2-N3	2.24	1.38	1.33
107	QU	501	GTP	C2-N3	2.24	1.38	1.33
107	QD	502	GTP	C2-N3	2.24	1.38	1.33
107	NI	501	GTP	C2-N3	2.24	1.38	1.33
107	JR	502	GTP	C2-N3	2.24	1.38	1.33
107	NK	501	GTP	C2-N3	2.24	1.38	1.33
107	PG	501	GTP	C2-N3	2.23	1.38	1.33
107	UM	501	GTP	C2-N3	2.23	1.38	1.33
107	EU	501	GTP	C2-N3	2.23	1.38	1.33
107	JO	501	GTP	C2-N3	2.23	1.38	1.33
107	IA	501	GTP	C2-N3	2.23	1.38	1.33
107	JG	501	GTP	C2-N3	2.23	1.38	1.33
107	UC	501	GTP	C2-N3	2.23	1.38	1.33
107	NA	501	GTP	C2-N3	2.23	1.38	1.33
107	VK	501	GTP	C2-N3	2.23	1.38	1.33
107	DG	501	GTP	C2-N3	2.23	1.38	1.33
107	II	501	GTP	C2-N3	2.22	1.38	1.33
107	HW	501	GTP	C2-N3	2.22	1.38	1.33
107	VY	501	GTP	C2-N3	2.22	1.38	1.33
107	LS	501	GTP	C2-N3	2.22	1.38	1.33
107	QK	501	GTP	C2-N3	2.22	1.38	1.33
107	PS	501	GTP	C2-N3	2.22	1.38	1.33
107	PK	501	GTP	C2-N3	2.22	1.38	1.33
107	HN	502	GTP	C2-N3	2.22	1.38	1.33
107	US	501	GTP	C2-N3	2.22	1.38	1.33
107	FM	501	GTP	C2-N3	2.22	1.38	1.33
107	GR	502	GTP	C2-N3	2.22	1.38	1.33
107	EQ	501	GTP	C2-N3	2.21	1.38	1.33
107	GC	501	GTP	C2-N3	2.21	1.38	1.33
107	HM	501	GTP	C2-N3	2.21	1.38	1.33
107	CU	501	GTP	C2-N3	2.21	1.38	1.33
107	ID	502	GTP	C2-N3	2.21	1.38	1.33
107	RS	501	GTP	C2-N3	2.21	1.38	1.33
107	IM	501	GTP	C2-N3	2.21	1.38	1.33
107	QO	501	GTP	C2-N3	2.21	1.38	1.33
107	RF	502	GTP	C2-N3	2.21	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	VN	502	GTP	C2-N3	2.21	1.38	1.33
107	VM	501	GTP	C2-N3	2.21	1.38	1.33
107	UU	501	GTP	C2-N3	2.21	1.38	1.33
107	BM	501	GTP	C2-N3	2.21	1.38	1.33
107	VQ	501	GTP	C2-N3	2.21	1.38	1.33
107	EG	501	GTP	C2-N3	2.21	1.38	1.33
107	UY	501	GTP	C2-N3	2.21	1.38	1.33
107	EI	501	GTP	C2-N3	2.21	1.38	1.33
107	JI	501	GTP	C2-N3	2.21	1.38	1.33
107	HI	501	GTP	C2-N3	2.21	1.38	1.33
107	PA	501	GTP	C2-N3	2.21	1.38	1.33
107	JQ	501	GTP	C2-N3	2.21	1.38	1.33
107	IC	501	GTP	C2-N3	2.21	1.38	1.33
107	CC	501	GTP	C2-N3	2.21	1.38	1.33
107	HS	501	GTP	C2-N3	2.21	1.38	1.33
107	TU	501	GTP	C2-N3	2.21	1.38	1.33
107	IU	501	GTP	C2-N3	2.21	1.38	1.33
107	PQ	501	GTP	C2-N3	2.21	1.38	1.33
107	PM	501	GTP	C2-N3	2.21	1.38	1.33
107	VC	501	GTP	C2-N3	2.21	1.38	1.33
107	OI	501	GTP	C2-N3	2.20	1.38	1.33
107	RN	502	GTP	C2-N3	2.20	1.38	1.33
107	KS	501	GTP	C2-N3	2.20	1.38	1.33
107	KF	502	GTP	C2-N3	2.20	1.38	1.33
107	PY	501	GTP	C2-N3	2.20	1.38	1.33
107	RY	501	GTP	C2-N3	2.20	1.38	1.33
107	RM	501	GTP	C2-N3	2.20	1.38	1.33
107	VI	501	GTP	C2-N3	2.20	1.38	1.33
107	JJ	502	GTP	C2-N3	2.20	1.38	1.33
107	QA	501	GTP	C2-N3	2.20	1.38	1.33
107	UK	501	GTP	C2-N3	2.20	1.38	1.33
107	VU	501	GTP	C2-N3	2.20	1.38	1.33
107	FY	501	GTP	C2-N3	2.20	1.38	1.33
107	UO	501	GTP	C2-N3	2.20	1.38	1.33
107	EW	501	GTP	C2-N3	2.20	1.38	1.33
107	FU	501	GTP	C2-N3	2.20	1.38	1.33
107	ME	501	GTP	C2-N3	2.20	1.38	1.33
107	RW	501	GTP	C2-N3	2.20	1.38	1.33
107	AE	501	GTP	C2-N3	2.20	1.38	1.33
107	DO	501	GTP	C2-N3	2.20	1.38	1.33
107	JU	501	GTP	C2-N3	2.20	1.38	1.33
107	CY	501	GTP	C2-N3	2.20	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	QC	501	GTP	C2-N3	2.20	1.38	1.33
107	GU	501	GTP	C2-N3	2.20	1.38	1.33
107	CQ	501	GTP	C2-N3	2.20	1.38	1.33
107	OU	501	GTP	C2-N3	2.20	1.38	1.33
107	MT	502	GTP	C2-N3	2.20	1.38	1.33
107	OA	501	GTP	C2-N3	2.20	1.38	1.33
107	VG	501	GTP	C2-N3	2.20	1.38	1.33
107	EK	501	GTP	C2-N3	2.20	1.38	1.33
107	CK	501	GTP	C2-N3	2.20	1.38	1.33
107	LK	501	GTP	C2-N3	2.20	1.38	1.33
107	QR	502	GTP	C2-N3	2.20	1.38	1.33
107	DW	501	GTP	C2-N3	2.20	1.38	1.33
107	NS	501	GTP	C2-N3	2.19	1.38	1.33
107	EY	501	GTP	C2-N3	2.19	1.38	1.33
107	FK	501	GTP	C2-N3	2.19	1.38	1.33
107	HE	501	GTP	C2-N3	2.19	1.38	1.33
107	KY	501	GTP	C2-N3	2.19	1.38	1.33
107	UI	501	GTP	C2-N3	2.19	1.38	1.33
107	PE	501	GTP	C2-N3	2.19	1.38	1.33
107	RE	501	GTP	C2-N3	2.19	1.38	1.33
107	TG	501	GTP	C2-N3	2.19	1.38	1.33
107	OW	501	GTP	C2-N3	2.19	1.38	1.33
107	JD	502	GTP	C2-N3	2.19	1.38	1.33
107	SE	501	GTP	C2-N3	2.19	1.38	1.33
107	VE	501	GTP	C2-N3	2.19	1.38	1.33
107	IO	501	GTP	C2-N3	2.19	1.38	1.33
107	EE	501	GTP	C2-N3	2.19	1.38	1.33
107	KN	502	GTP	C2-N3	2.19	1.38	1.33
107	CM	501	GTP	C2-N3	2.19	1.38	1.33
107	MG	501	GTP	C2-N3	2.19	1.38	1.33
107	DU	501	GTP	C2-N3	2.19	1.38	1.33
107	NC	501	GTP	C2-N3	2.19	1.38	1.33
107	PI	501	GTP	C2-N3	2.19	1.38	1.33
107	RI	501	GTP	C2-N3	2.19	1.38	1.33
107	KU	501	GTP	C2-N3	2.19	1.38	1.33
107	MM	501	GTP	C2-N3	2.19	1.38	1.33
107	QG	501	GTP	C2-N3	2.19	1.38	1.33
107	HF	502	GTP	C2-N3	2.19	1.38	1.33
107	NQ	501	GTP	C2-N3	2.19	1.38	1.33
107	OG	501	GTP	C2-N3	2.18	1.38	1.33
107	UG	501	GTP	C2-N3	2.18	1.38	1.33
107	NU	501	GTP	C2-N3	2.18	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	CO	501	GTP	C2-N3	2.18	1.38	1.33
107	CW	501	GTP	C2-N3	2.18	1.38	1.33
107	TW	501	GTP	C2-N3	2.18	1.38	1.33
107	UW	501	GTP	C2-N3	2.18	1.38	1.33
107	FN	502	GTP	C2-N3	2.18	1.38	1.33
107	OS	501	GTP	C2-N3	2.18	1.38	1.33
107	BK	501	GTP	C2-N3	2.18	1.38	1.33
107	RT	502	GTP	C2-N3	2.18	1.38	1.33
107	AG	501	GTP	C2-N3	2.18	1.38	1.33
107	FS	501	GTP	C2-N3	2.18	1.38	1.33
107	HK	501	GTP	C2-N3	2.18	1.38	1.33
107	OK	501	GTP	C2-N3	2.18	1.38	1.33
107	BG	501	GTP	C2-N3	2.18	1.38	1.33
107	HY	501	GTP	C2-N3	2.18	1.38	1.33
107	ES	501	GTP	C2-N3	2.18	1.38	1.33
107	OM	501	GTP	C2-N3	2.18	1.38	1.33
107	WU	501	GTP	C2-N3	2.18	1.38	1.33
107	KM	501	GTP	C2-N3	2.18	1.38	1.33
107	OC	501	GTP	C2-N3	2.18	1.38	1.33
107	RC	501	GTP	C2-N3	2.18	1.38	1.33
107	UQ	501	GTP	C2-N3	2.18	1.38	1.33
107	IY	501	GTP	C2-N3	2.18	1.38	1.33
107	BO	501	GTP	C2-N3	2.18	1.38	1.33
107	LQ	501	GTP	C2-N3	2.18	1.38	1.33
107	IS	501	GTP	C2-N3	2.18	1.38	1.33
107	MS	501	GTP	C2-N3	2.17	1.38	1.33
107	SI	501	GTP	C2-N3	2.17	1.38	1.33
107	GI	501	GTP	C2-N3	2.17	1.38	1.33
107	JW	501	GTP	C2-N3	2.17	1.38	1.33
107	WS	501	GTP	C2-N3	2.17	1.38	1.33
107	WE	501	GTP	C2-N3	2.17	1.38	1.33
107	IQ	501	GTP	C2-N3	2.17	1.38	1.33
107	RK	501	GTP	C2-N3	2.17	1.38	1.33
107	EO	501	GTP	C2-N3	2.17	1.38	1.33
107	VS	501	GTP	C2-N3	2.17	1.38	1.33
107	CS	501	GTP	C2-N3	2.17	1.38	1.33
107	TY	501	GTP	C2-N3	2.17	1.38	1.33
107	EC	501	GTP	C2-N3	2.17	1.38	1.33
107	SW	501	GTP	C2-N3	2.17	1.38	1.33
107	JM	501	GTP	C2-N3	2.17	1.38	1.33
107	KK	501	GTP	C2-N3	2.17	1.38	1.33
107	TN	502	GTP	C2-N3	2.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	HC	501	GTP	C2-N3	2.17	1.38	1.33
107	GE	501	GTP	C2-N3	2.17	1.38	1.33
107	GG	501	GTP	C2-N3	2.17	1.38	1.33
107	SG	501	GTP	C2-N3	2.17	1.38	1.33
107	SK	501	GTP	C2-N3	2.17	1.38	1.33
107	BW	501	GTP	C2-N3	2.17	1.38	1.33
107	DK	501	GTP	C2-N3	2.17	1.38	1.33
107	KW	501	GTP	C2-N3	2.17	1.38	1.33
107	DE	501	GTP	C2-N3	2.17	1.38	1.33
107	NG	501	GTP	C2-N3	2.17	1.38	1.33
107	RQ	501	GTP	C2-N3	2.16	1.38	1.33
107	NO	501	GTP	C2-N3	2.16	1.38	1.33
107	NW	501	GTP	C2-N3	2.16	1.38	1.33
107	ND	502	GTP	C2-N3	2.16	1.38	1.33
107	LG	501	GTP	C2-N3	2.16	1.38	1.33
107	WW	501	GTP	C2-N3	2.16	1.38	1.33
107	DS	501	GTP	C2-N3	2.16	1.38	1.33
107	GW	501	GTP	C2-N3	2.16	1.38	1.33
107	HA	501	GTP	C2-N3	2.16	1.38	1.33
107	QX	502	GTP	C2-N3	2.16	1.38	1.33
107	PW	501	GTP	C2-N3	2.16	1.38	1.33
107	WO	501	GTP	C2-N3	2.16	1.38	1.33
107	DI	501	GTP	C2-N3	2.16	1.38	1.33
107	CI	501	GTP	C2-N3	2.16	1.38	1.33
107	EM	501	GTP	C2-N3	2.16	1.38	1.33
107	IK	501	GTP	C2-N3	2.16	1.38	1.33
107	QL	502	GTP	C2-N3	2.16	1.38	1.33
107	RA	501	GTP	C2-N3	2.16	1.38	1.33
107	MY	501	GTP	C2-N3	2.16	1.38	1.33
107	VW	501	GTP	C2-N3	2.16	1.38	1.33
107	LE	501	GTP	C2-N3	2.16	1.38	1.33
107	SO	501	GTP	C2-N3	2.16	1.38	1.33
107	WQ	501	GTP	C2-N3	2.16	1.38	1.33
107	SL	502	GTP	C2-N3	2.16	1.38	1.33
107	LM	501	GTP	C2-N3	2.16	1.38	1.33
107	KQ	501	GTP	C2-N3	2.16	1.38	1.33
107	BQ	501	GTP	C2-N3	2.15	1.38	1.33
107	IW	501	GTP	C2-N3	2.15	1.38	1.33
107	MC	501	GTP	C2-N3	2.15	1.38	1.33
107	MN	502	GTP	C2-N3	2.15	1.38	1.33
107	MA	501	GTP	C2-N3	2.15	1.38	1.33
107	CG	501	GTP	C2-N3	2.15	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	TE	501	GTP	C2-N3	2.15	1.38	1.33
107	TK	501	GTP	C2-N3	2.15	1.38	1.33
107	WG	501	GTP	C2-N3	2.15	1.38	1.33
107	SC	501	GTP	C2-N3	2.15	1.38	1.33
107	MK	501	GTP	C2-N3	2.15	1.38	1.33
107	TI	501	GTP	C2-N3	2.15	1.38	1.33
107	FG	501	GTP	C2-N3	2.15	1.38	1.33
107	QI	501	GTP	C2-N3	2.15	1.38	1.33
107	BS	501	GTP	C2-N3	2.15	1.38	1.33
107	MQ	501	GTP	C2-N3	2.15	1.38	1.33
107	MW	501	GTP	C2-N3	2.14	1.38	1.33
107	BC	501	GTP	C2-N3	2.14	1.38	1.33
107	GQ	501	GTP	C2-N3	2.14	1.38	1.33
107	BY	501	GTP	C2-N3	2.14	1.38	1.33
107	GK	501	GTP	C2-N3	2.14	1.38	1.33
107	TQ	501	GTP	C2-N3	2.14	1.38	1.33
107	BI	501	GTP	C2-N3	2.14	1.38	1.33
107	AW	501	GTP	C2-N3	2.14	1.38	1.33
107	LW	501	GTP	C2-N3	2.14	1.38	1.33
107	GO	501	GTP	C2-N3	2.14	1.38	1.33
107	BE	501	GTP	C2-N3	2.14	1.38	1.33
107	FW	501	GTP	C2-N3	2.14	1.38	1.33
107	JC	501	GTP	C2-N3	2.14	1.38	1.33
107	AU	501	GTP	C2-N3	2.13	1.38	1.33
107	GX	502	GTP	C2-N3	2.13	1.38	1.33
107	SR	502	GTP	C2-N3	2.13	1.38	1.33
107	AS	501	GTP	C2-N3	2.13	1.38	1.33
107	FC	501	GTP	C2-N3	2.13	1.38	1.33
107	DY	501	GTP	C2-N3	2.13	1.38	1.33
107	SQ	501	GTP	C2-N3	2.13	1.38	1.33
107	AI	501	GTP	C2-N3	2.13	1.38	1.33
107	OO	501	GTP	C2-N3	2.13	1.38	1.33
107	UE	501	GTP	C2-N3	2.13	1.38	1.33
107	NL	502	GTP	C2-N3	2.13	1.38	1.33
107	WA	501	GTP	C2-N3	2.13	1.38	1.33
107	WK	501	GTP	C2-N3	2.13	1.38	1.33
107	CE	501	GTP	C2-N3	2.13	1.38	1.33
107	KC	501	GTP	C2-N3	2.13	1.38	1.33
107	KE	501	GTP	C2-N3	2.13	1.38	1.33
107	PC	501	GTP	C2-N3	2.13	1.38	1.33
107	FI	501	GTP	C2-N3	2.12	1.38	1.33
107	BA	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
107	LU	501	GTP	C2-N3	2.12	1.38	1.33
107	TS	501	GTP	C2-N3	2.12	1.38	1.33
107	FQ	501	GTP	C2-N3	2.12	1.38	1.33
107	BU	501	GTP	C2-N3	2.12	1.38	1.33
107	IG	501	GTP	C2-N3	2.12	1.38	1.33
107	LO	501	GTP	C2-N3	2.12	1.38	1.33
107	AM	501	GTP	C2-N3	2.11	1.38	1.33
107	LI	501	GTP	C2-N3	2.11	1.38	1.33
107	AQ	501	GTP	C2-N3	2.11	1.38	1.33
107	WC	501	GTP	C2-N3	2.11	1.38	1.33
107	WI	501	GTP	C2-N3	2.11	1.38	1.33
107	SX	502	GTP	C2-N3	2.11	1.38	1.33
107	AO	501	GTP	C2-N3	2.11	1.38	1.33
107	JY	501	GTP	C2-N3	2.10	1.38	1.33
107	MI	501	GTP	C2-N3	2.10	1.38	1.33
107	KI	501	GTP	C2-N3	2.10	1.38	1.33
107	LY	501	GTP	C2-N3	2.10	1.38	1.33
107	AC	501	GTP	C2-N3	2.09	1.38	1.33
107	AZ	501	GTP	C2-N3	2.09	1.38	1.33
107	TB	502	GTP	C2-N3	2.09	1.38	1.33
107	PN	502	GTP	C2-N3	2.09	1.38	1.33
107	WM	501	GTP	C2-N3	2.08	1.38	1.33
107	AK	501	GTP	C2-N3	2.08	1.38	1.33
107	GM	501	GTP	C2-N3	2.08	1.38	1.33
107	DM	501	GTP	C2-N3	2.08	1.38	1.33
107	FE	501	GTP	C2-N3	2.08	1.38	1.33
109	DV	501	GDP	C6-N1	-2.07	1.34	1.37
107	AY	501	GTP	C2-N3	2.07	1.38	1.33

All (3146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	IM	501	GTP	PB-O3B-PG	-4.66	116.83	132.83
107	IC	501	GTP	PB-O3B-PG	-4.54	117.23	132.83
107	JU	501	GTP	PB-O3B-PG	-4.54	117.25	132.83
107	IO	501	GTP	PB-O3B-PG	-4.49	117.43	132.83
107	GO	501	GTP	PB-O3B-PG	-4.45	117.55	132.83
107	IQ	501	GTP	PB-O3B-PG	-4.42	117.67	132.83
107	IA	501	GTP	PB-O3B-PG	-4.42	117.67	132.83
107	IS	501	GTP	PB-O3B-PG	-4.38	117.81	132.83
107	OC	501	GTP	PB-O3B-PG	-4.36	117.87	132.83
107	GM	501	GTP	PB-O3B-PG	-4.33	117.98	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	OU	501	GTP	PB-O3B-PG	-4.32	118.02	132.83
107	IG	501	GTP	PB-O3B-PG	-4.31	118.03	132.83
107	IY	501	GTP	PB-O3B-PG	-4.31	118.03	132.83
107	VI	501	GTP	PB-O3B-PG	-4.31	118.04	132.83
107	ES	501	GTP	PB-O3B-PG	-4.31	118.04	132.83
107	OQ	501	GTP	PB-O3B-PG	-4.27	118.17	132.83
107	DK	501	GTP	PA-O3A-PB	-4.26	118.21	132.83
107	EG	501	GTP	PB-O3B-PG	-4.23	118.31	132.83
107	JO	501	GTP	PB-O3B-PG	-4.23	118.32	132.83
107	UQ	501	GTP	PB-O3B-PG	-4.22	118.36	132.83
107	QQ	501	GTP	PB-O3B-PG	-4.21	118.37	132.83
107	IK	501	GTP	PB-O3B-PG	-4.21	118.39	132.83
107	MI	501	GTP	PB-O3B-PG	-4.19	118.46	132.83
107	CC	501	GTP	PB-O3B-PG	-4.19	118.46	132.83
107	UO	501	GTP	PB-O3B-PG	-4.18	118.47	132.83
107	LC	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
107	UC	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
107	LM	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
107	MW	501	GTP	PB-O3B-PG	-4.17	118.51	132.83
107	NK	501	GTP	PB-O3B-PG	-4.17	118.53	132.83
107	JM	501	GTP	PB-O3B-PG	-4.16	118.54	132.83
107	GQ	501	GTP	PB-O3B-PG	-4.16	118.54	132.83
107	NC	501	GTP	PB-O3B-PG	-4.16	118.56	132.83
107	OK	501	GTP	PB-O3B-PG	-4.15	118.57	132.83
107	OO	501	GTP	PB-O3B-PG	-4.15	118.58	132.83
109	ON	501	GDP	PA-O3A-PB	-4.14	118.60	132.83
109	AB	501	GDP	PA-O3A-PB	-4.14	118.61	132.83
107	JG	501	GTP	PB-O3B-PG	-4.14	118.61	132.83
107	DY	501	GTP	PA-O3A-PB	-4.14	118.62	132.83
107	IU	501	GTP	PB-O3B-PG	-4.13	118.65	132.83
109	GL	501	GDP	PA-O3A-PB	-4.13	118.66	132.83
107	SO	501	GTP	PB-O3B-PG	-4.12	118.69	132.83
107	JQ	501	GTP	PB-O3B-PG	-4.12	118.69	132.83
107	UM	501	GTP	PB-O3B-PG	-4.10	118.75	132.83
109	IN	501	GDP	PA-O3A-PB	-4.10	118.76	132.83
109	LV	501	GDP	PA-O3A-PB	-4.09	118.79	132.83
109	BB	501	GDP	PA-O3A-PB	-4.09	118.81	132.83
107	EK	501	GTP	PA-O3A-PB	-4.08	118.81	132.83
109	BD	501	GDP	PA-O3A-PB	-4.08	118.81	132.83
107	NO	501	GTP	PB-O3B-PG	-4.08	118.81	132.83
107	NS	501	GTP	PB-O3B-PG	-4.08	118.83	132.83
107	DI	501	GTP	PB-O3B-PG	-4.08	118.84	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	AX	501	GDP	PA-O3A-PB	-4.08	118.84	132.83
107	LO	501	GTP	PB-O3B-PG	-4.07	118.84	132.83
107	LE	501	GTP	PB-O3B-PG	-4.07	118.85	132.83
107	QG	501	GTP	PB-O3B-PG	-4.07	118.85	132.83
109	NF	501	GDP	PA-O3A-PB	-4.07	118.86	132.83
107	EE	501	GTP	PB-O3B-PG	-4.07	118.86	132.83
109	AF	501	GDP	PA-O3A-PB	-4.07	118.87	132.83
109	AR	501	GDP	PA-O3A-PB	-4.06	118.88	132.83
107	CW	501	GTP	PB-O3B-PG	-4.06	118.89	132.83
107	OW	501	GTP	PB-O3B-PG	-4.06	118.91	132.83
109	BJ	501	GDP	PA-O3A-PB	-4.05	118.91	132.83
107	OE	501	GTP	PB-O3B-PG	-4.05	118.92	132.83
107	NQ	501	GTP	PB-O3B-PG	-4.04	118.95	132.83
109	AP	501	GDP	PA-O3A-PB	-4.04	118.96	132.83
109	AT	501	GDP	PA-O3A-PB	-4.04	118.96	132.83
109	IV	501	GDP	PA-O3A-PB	-4.04	118.96	132.83
107	OG	501	GTP	PB-O3B-PG	-4.04	118.96	132.83
109	UN	501	GDP	PA-O3A-PB	-4.04	118.97	132.83
107	QU	501	GTP	PB-O3B-PG	-4.03	118.99	132.83
107	SE	501	GTP	PB-O3B-PG	-4.03	119.01	132.83
109	NB	501	GDP	PA-O3A-PB	-4.02	119.02	132.83
107	SU	501	GTP	PB-O3B-PG	-4.02	119.03	132.83
107	SK	501	GTP	PB-O3B-PG	-4.01	119.06	132.83
107	GK	501	GTP	PB-O3B-PG	-4.01	119.06	132.83
107	EM	501	GTP	PB-O3B-PG	-4.01	119.08	132.83
109	OH	501	GDP	PA-O3A-PB	-4.01	119.08	132.83
107	CI	501	GTP	PB-O3B-PG	-4.00	119.08	132.83
109	AD	501	GDP	PA-O3A-PB	-4.00	119.09	132.83
107	OM	501	GTP	PB-O3B-PG	-4.00	119.11	132.83
107	DW	501	GTP	PA-O3A-PB	-3.99	119.14	132.83
109	BR	501	GDP	PA-O3A-PB	-3.99	119.15	132.83
109	ND	501	GDP	PA-O3A-PB	-3.98	119.16	132.83
107	DW	501	GTP	PB-O3B-PG	-3.98	119.16	132.83
107	UE	501	GTP	PB-O3B-PG	-3.98	119.17	132.83
107	LI	501	GTP	PB-O3B-PG	-3.98	119.17	132.83
109	AN	501	GDP	PA-O3A-PB	-3.98	119.18	132.83
107	QK	501	GTP	PB-O3B-PG	-3.97	119.19	132.83
109	AJ	501	GDP	PA-O3A-PB	-3.97	119.19	132.83
107	NW	501	GTP	PB-O3B-PG	-3.97	119.20	132.83
107	US	501	GTP	PB-O3B-PG	-3.97	119.21	132.83
107	CQ	501	GTP	PB-O3B-PG	-3.97	119.22	132.83
107	LW	501	GTP	PB-O3B-PG	-3.96	119.23	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	QC	501	GTP	PB-O3B-PG	-3.96	119.24	132.83
107	GC	501	GTP	PB-O3B-PG	-3.95	119.26	132.83
107	DO	501	GTP	PB-O3B-PG	-3.95	119.27	132.83
109	NR	501	GDP	PA-O3A-PB	-3.94	119.30	132.83
107	JY	501	GTP	PB-O3B-PG	-3.94	119.31	132.83
107	UY	501	GTP	PB-O3B-PG	-3.94	119.32	132.83
107	EU	501	GTP	PB-O3B-PG	-3.93	119.33	132.83
109	BN	501	GDP	PA-O3A-PB	-3.93	119.34	132.83
107	JC	501	GTP	PB-O3B-PG	-3.93	119.36	132.83
107	LU	501	GTP	PB-O3B-PG	-3.92	119.37	132.83
107	LQ	501	GTP	PB-O3B-PG	-3.92	119.38	132.83
109	ID	501	GDP	PA-O3A-PB	-3.92	119.38	132.83
109	LR	501	GDP	PA-O3A-PB	-3.92	119.38	132.83
109	JB	501	GDP	PA-O3A-PB	-3.91	119.39	132.83
109	IH	501	GDP	PA-O3A-PB	-3.91	119.40	132.83
109	OV	501	GDP	PA-O3A-PB	-3.91	119.41	132.83
109	ST	501	GDP	PA-O3A-PB	-3.91	119.41	132.83
107	II	501	GTP	PB-O3B-PG	-3.91	119.41	132.83
109	HT	501	GDP	PA-O3A-PB	-3.91	119.42	132.83
107	CG	501	GTP	PB-O3B-PG	-3.90	119.43	132.83
109	RT	501	GDP	PA-O3A-PB	-3.90	119.44	132.83
107	DK	501	GTP	PB-O3B-PG	-3.90	119.44	132.83
109	UD	501	GDP	PA-O3A-PB	-3.90	119.45	132.83
109	BF	501	GDP	PA-O3A-PB	-3.90	119.46	132.83
107	NI	501	GTP	PB-O3B-PG	-3.89	119.46	132.83
109	IF	501	GDP	PA-O3A-PB	-3.89	119.47	132.83
109	GD	501	GDP	PA-O3A-PB	-3.89	119.47	132.83
109	JX	501	GDP	PA-O3A-PB	-3.89	119.48	132.83
109	HH	501	GDP	PA-O3A-PB	-3.89	119.48	132.83
109	UT	501	GDP	PA-O3A-PB	-3.89	119.48	132.83
107	SW	501	GTP	PB-O3B-PG	-3.89	119.48	132.83
107	UI	501	GTP	PB-O3B-PG	-3.89	119.49	132.83
107	SX	502	GTP	PB-O3B-PG	-3.88	119.50	132.83
107	QO	501	GTP	PB-O3B-PG	-3.88	119.50	132.83
107	ID	502	GTP	PB-O3B-PG	-3.88	119.51	132.83
109	HD	501	GDP	PA-O3A-PB	-3.88	119.51	132.83
109	NH	501	GDP	PA-O3A-PB	-3.88	119.52	132.83
109	LB	501	GDP	PA-O3A-PB	-3.88	119.53	132.83
107	UK	501	GTP	PB-O3B-PG	-3.87	119.53	132.83
107	EY	501	GTP	PB-O3B-PG	-3.87	119.54	132.83
107	SQ	501	GTP	PB-O3B-PG	-3.87	119.54	132.83
109	HR	501	GDP	PA-O3A-PB	-3.87	119.54	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	EO	501	GTP	PB-O3B-PG	-3.87	119.54	132.83
109	AL	501	GDP	PA-O3A-PB	-3.87	119.56	132.83
107	FI	501	GTP	PB-O3B-PG	-3.86	119.58	132.83
109	LF	501	GDP	PA-O3A-PB	-3.86	119.58	132.83
107	IW	501	GTP	PB-O3B-PG	-3.86	119.59	132.83
109	KF	501	GDP	PA-O3A-PB	-3.85	119.62	132.83
107	BM	501	GTP	PB-O3B-PG	-3.85	119.62	132.83
109	QB	501	GDP	PA-O3A-PB	-3.85	119.63	132.83
109	AV	501	GDP	PA-O3A-PB	-3.84	119.63	132.83
109	OB	501	GDP	PA-O3A-PB	-3.84	119.64	132.83
107	UW	501	GTP	PB-O3B-PG	-3.84	119.64	132.83
107	DM	501	GTP	PB-O3B-PG	-3.84	119.65	132.83
109	JJ	501	GDP	PA-O3A-PB	-3.84	119.65	132.83
109	BH	501	GDP	PA-O3A-PB	-3.84	119.65	132.83
109	NV	501	GDP	PA-O3A-PB	-3.84	119.66	132.83
109	JR	501	GDP	PA-O3A-PB	-3.84	119.66	132.83
109	UV	501	GDP	PA-O3A-PB	-3.83	119.69	132.83
107	LG	501	GTP	PB-O3B-PG	-3.83	119.69	132.83
109	BX	501	GDP	PA-O3A-PB	-3.83	119.69	132.83
109	UR	501	GDP	PA-O3A-PB	-3.83	119.69	132.83
107	GG	501	GTP	PB-O3B-PG	-3.83	119.70	132.83
109	OR	501	GDP	PA-O3A-PB	-3.82	119.70	132.83
109	AH	501	GDP	PA-O3A-PB	-3.82	119.70	132.83
109	IR	501	GDP	PA-O3A-PB	-3.82	119.71	132.83
107	JJ	502	GTP	PB-O3B-PG	-3.82	119.72	132.83
109	QD	501	GDP	PA-O3A-PB	-3.81	119.73	132.83
107	HW	501	GTP	PB-O3B-PG	-3.81	119.76	132.83
109	MV	501	GDP	PA-O3A-PB	-3.81	119.76	132.83
107	VW	501	GTP	PB-O3B-PG	-3.81	119.77	132.83
107	OY	501	GTP	PB-O3B-PG	-3.80	119.77	132.83
107	LY	501	GTP	PB-O3B-PG	-3.80	119.77	132.83
109	NN	501	GDP	PA-O3A-PB	-3.80	119.78	132.83
107	SC	501	GTP	PB-O3B-PG	-3.80	119.79	132.83
107	DG	501	GTP	PB-O3B-PG	-3.79	119.80	132.83
109	NJ	501	GDP	PA-O3A-PB	-3.79	119.81	132.83
109	OD	501	GDP	PA-O3A-PB	-3.79	119.81	132.83
107	DM	501	GTP	PA-O3A-PB	-3.79	119.82	132.83
109	EH	501	GDP	PA-O3A-PB	-3.79	119.83	132.83
109	UP	501	GDP	PA-O3A-PB	-3.78	119.84	132.83
109	VP	501	GDP	PA-O3A-PB	-3.78	119.86	132.83
109	VD	501	GDP	PA-O3A-PB	-3.78	119.86	132.83
107	LS	501	GTP	PB-O3B-PG	-3.78	119.86	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	IG	501	GTP	PA-O3A-PB	-3.78	119.87	132.83
107	CK	501	GTP	PB-O3B-PG	-3.78	119.87	132.83
109	LJ	501	GDP	PA-O3A-PB	-3.77	119.88	132.83
109	BT	501	GDP	PA-O3A-PB	-3.77	119.89	132.83
109	IB	501	GDP	PA-O3A-PB	-3.77	119.90	132.83
109	BL	501	GDP	PA-O3A-PB	-3.76	119.91	132.83
109	HP	501	GDP	PA-O3A-PB	-3.76	119.92	132.83
109	IJ	501	GDP	PA-O3A-PB	-3.76	119.92	132.83
109	VR	501	GDP	PA-O3A-PB	-3.76	119.92	132.83
109	CH	501	GDP	PA-O3A-PB	-3.76	119.93	132.83
109	KR	501	GDP	PA-O3A-PB	-3.76	119.94	132.83
109	LP	501	GDP	PA-O3A-PB	-3.75	119.95	132.83
107	EQ	501	GTP	PB-O3B-PG	-3.75	119.95	132.83
109	LN	501	GDP	PA-O3A-PB	-3.75	119.96	132.83
107	QI	501	GTP	PB-O3B-PG	-3.75	119.96	132.83
109	MZ	501	GDP	PA-O3A-PB	-3.75	119.97	132.83
109	MR	501	GDP	PA-O3A-PB	-3.75	119.97	132.83
109	MF	501	GDP	PA-O3A-PB	-3.74	119.98	132.83
109	SB	501	GDP	PA-O3A-PB	-3.74	119.99	132.83
107	SI	501	GTP	PB-O3B-PG	-3.74	119.99	132.83
109	MJ	501	GDP	PA-O3A-PB	-3.74	120.00	132.83
107	EI	501	GTP	PB-O3B-PG	-3.74	120.01	132.83
107	OS	501	GTP	PA-O3A-PB	-3.74	120.01	132.83
109	BP	501	GDP	PA-O3A-PB	-3.73	120.01	132.83
107	CY	501	GTP	PB-O3B-PG	-3.73	120.02	132.83
107	DC	501	GTP	PB-O3B-PG	-3.73	120.03	132.83
109	SN	501	GDP	PA-O3A-PB	-3.73	120.04	132.83
109	WN	501	GDP	PA-O3A-PB	-3.72	120.05	132.83
109	RR	501	GDP	PA-O3A-PB	-3.72	120.05	132.83
107	EC	501	GTP	PB-O3B-PG	-3.72	120.06	132.83
109	JL	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
109	UF	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
109	WB	501	GDP	PA-O3A-PB	-3.72	120.08	132.83
107	KI	501	GTP	PB-O3B-PG	-3.71	120.08	132.83
107	JI	501	GTP	PB-O3B-PG	-3.70	120.11	132.83
109	IX	501	GDP	PA-O3A-PB	-3.70	120.12	132.83
107	RW	501	GTP	PB-O3B-PG	-3.70	120.13	132.83
107	OS	501	GTP	PB-O3B-PG	-3.70	120.14	132.83
109	CR	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
109	NZ	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
109	GR	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
109	CP	501	GDP	PA-O3A-PB	-3.69	120.15	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	JP	501	GDP	PA-O3A-PB	-3.69	120.15	132.83
109	NL	501	GDP	PA-O3A-PB	-3.69	120.15	132.83
109	OJ	501	GDP	PA-O3A-PB	-3.69	120.15	132.83
109	WF	501	GDP	PA-O3A-PB	-3.69	120.16	132.83
107	CU	501	GTP	PB-O3B-PG	-3.69	120.17	132.83
109	QN	501	GDP	PA-O3A-PB	-3.68	120.18	132.83
109	OL	501	GDP	PA-O3A-PB	-3.68	120.19	132.83
109	JD	501	GDP	PA-O3A-PB	-3.68	120.20	132.83
107	DQ	501	GTP	PB-O3B-PG	-3.67	120.22	132.83
107	DY	501	GTP	PB-O3B-PG	-3.67	120.23	132.83
109	WR	501	GDP	PA-O3A-PB	-3.67	120.23	132.83
107	LY	501	GTP	PA-O3A-PB	-3.67	120.23	132.83
109	KX	501	GDP	PA-O3A-PB	-3.67	120.24	132.83
109	TD	501	GDP	PA-O3A-PB	-3.67	120.24	132.83
107	OI	501	GTP	PB-O3B-PG	-3.66	120.25	132.83
109	RD	501	GDP	PA-O3A-PB	-3.66	120.25	132.83
109	QR	501	GDP	PA-O3A-PB	-3.66	120.27	132.83
109	VV	501	GDP	PA-O3A-PB	-3.66	120.27	132.83
109	HV	501	GDP	PA-O3A-PB	-3.66	120.28	132.83
107	PI	501	GTP	PB-O3B-PG	-3.66	120.28	132.83
109	BV	501	GDP	PA-O3A-PB	-3.65	120.29	132.83
109	VT	501	GDP	PA-O3A-PB	-3.65	120.29	132.83
109	GH	501	GDP	PA-O3A-PB	-3.65	120.30	132.83
109	OX	501	GDP	PA-O3A-PB	-3.65	120.30	132.83
109	OP	501	GDP	PA-O3A-PB	-3.65	120.30	132.83
109	WD	501	GDP	PA-O3A-PB	-3.65	120.31	132.83
107	CM	501	GTP	PB-O3B-PG	-3.64	120.32	132.83
109	HF	501	GDP	PA-O3A-PB	-3.64	120.33	132.83
109	PR	501	GDP	PA-O3A-PB	-3.64	120.33	132.83
107	DI	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
109	WX	501	GDP	PA-O3A-PB	-3.64	120.33	132.83
107	DU	501	GTP	PB-O3B-PG	-3.63	120.35	132.83
109	JF	501	GDP	PA-O3A-PB	-3.63	120.36	132.83
109	JN	501	GDP	PA-O3A-PB	-3.63	120.36	132.83
109	LD	501	GDP	PA-O3A-PB	-3.63	120.37	132.83
107	PW	501	GTP	PB-O3B-PG	-3.63	120.37	132.83
107	GI	501	GTP	PB-O3B-PG	-3.63	120.38	132.83
107	TY	501	GTP	PA-O3A-PB	-3.63	120.38	132.83
109	RF	501	GDP	PA-O3A-PB	-3.63	120.38	132.83
109	SH	501	GDP	PA-O3A-PB	-3.62	120.39	132.83
109	WV	501	GDP	PA-O3A-PB	-3.62	120.39	132.83
109	JV	501	GDP	PA-O3A-PB	-3.62	120.39	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	JR	502	GTP	PB-O3B-PG	-3.62	120.40	132.83
109	HL	501	GDP	PA-O3A-PB	-3.62	120.41	132.83
109	SR	501	GDP	PA-O3A-PB	-3.62	120.41	132.83
107	RM	501	GTP	PB-O3B-PG	-3.62	120.41	132.83
107	FW	501	GTP	PB-O3B-PG	-3.61	120.42	132.83
107	LK	501	GTP	PB-O3B-PG	-3.61	120.42	132.83
107	VY	501	GTP	PB-O3B-PG	-3.61	120.43	132.83
107	SL	502	GTP	PB-O3B-PG	-3.61	120.44	132.83
109	GT	501	GDP	PA-O3A-PB	-3.61	120.44	132.83
107	PS	501	GTP	PB-O3B-PG	-3.61	120.44	132.83
107	UG	501	GTP	PB-O3B-PG	-3.61	120.45	132.83
109	GN	501	GDP	PA-O3A-PB	-3.61	120.45	132.83
109	UH	501	GDP	PA-O3A-PB	-3.61	120.45	132.83
109	JT	501	GDP	PA-O3A-PB	-3.61	120.45	132.83
109	VF	501	GDP	PA-O3A-PB	-3.61	120.45	132.83
107	SG	501	GTP	PB-O3B-PG	-3.60	120.46	132.83
107	QL	502	GTP	PA-O3A-PB	-3.60	120.46	132.83
107	OC	501	GTP	PA-O3A-PB	-3.60	120.46	132.83
109	ER	501	GDP	PA-O3A-PB	-3.60	120.46	132.83
109	UB	501	GDP	PA-O3A-PB	-3.60	120.47	132.83
109	SX	501	GDP	PA-O3A-PB	-3.60	120.47	132.83
109	TR	501	GDP	PA-O3A-PB	-3.60	120.47	132.83
107	AS	501	GTP	PA-O3A-PB	-3.60	120.47	132.83
107	MN	502	GTP	PB-O3B-PG	-3.60	120.48	132.83
107	JI	501	GTP	PA-O3A-PB	-3.60	120.48	132.83
109	UL	501	GDP	PA-O3A-PB	-3.60	120.49	132.83
109	WL	501	GDP	PA-O3A-PB	-3.60	120.49	132.83
107	BI	501	GTP	PB-O3B-PG	-3.59	120.49	132.83
109	VZ	501	GDP	PA-O3A-PB	-3.59	120.50	132.83
109	NP	501	GDP	PA-O3A-PB	-3.59	120.50	132.83
109	DT	501	GDP	PA-O3A-PB	-3.59	120.50	132.83
109	PB	501	GDP	PA-O3A-PB	-3.59	120.51	132.83
107	NG	501	GTP	PB-O3B-PG	-3.59	120.51	132.83
107	VQ	501	GTP	PB-O3B-PG	-3.59	120.52	132.83
109	EN	501	GDP	PA-O3A-PB	-3.59	120.52	132.83
109	MN	501	GDP	PA-O3A-PB	-3.59	120.52	132.83
109	LT	501	GDP	PA-O3A-PB	-3.58	120.53	132.83
107	AK	501	GTP	PA-O3A-PB	-3.58	120.54	132.83
109	DL	501	GDP	PA-O3A-PB	-3.58	120.54	132.83
107	JO	501	GTP	PA-O3A-PB	-3.58	120.54	132.83
109	PV	501	GDP	PA-O3A-PB	-3.58	120.54	132.83
109	WP	501	GDP	PA-O3A-PB	-3.58	120.55	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	EV	501	GDP	PA-O3A-PB	-3.58	120.55	132.83
109	HN	501	GDP	PA-O3A-PB	-3.57	120.56	132.83
107	NU	501	GTP	PB-O3B-PG	-3.57	120.56	132.83
107	SE	501	GTP	PA-O3A-PB	-3.57	120.56	132.83
107	RE	501	GTP	PB-O3B-PG	-3.57	120.57	132.83
109	FF	501	GDP	PA-O3A-PB	-3.57	120.57	132.83
109	JH	501	GDP	PA-O3A-PB	-3.57	120.57	132.83
109	CF	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
109	PH	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
109	GP	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
109	IL	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
109	NX	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
107	DO	501	GTP	PA-O3A-PB	-3.57	120.59	132.83
109	DR	501	GDP	PA-O3A-PB	-3.57	120.59	132.83
109	CZ	501	GDP	PA-O3A-PB	-3.57	120.59	132.83
109	QH	501	GDP	PA-O3A-PB	-3.56	120.59	132.83
109	WT	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
109	GX	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
109	WH	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
109	FT	501	GDP	PA-O3A-PB	-3.56	120.61	132.83
107	AC	501	GTP	PA-O3A-PB	-3.56	120.61	132.83
107	KF	502	GTP	PA-O3A-PB	-3.56	120.61	132.83
109	KV	501	GDP	PA-O3A-PB	-3.56	120.61	132.83
109	VB	501	GDP	PA-O3A-PB	-3.55	120.63	132.83
107	NW	501	GTP	PA-O3A-PB	-3.55	120.64	132.83
107	TK	501	GTP	PA-O3A-PB	-3.55	120.64	132.83
109	TB	501	GDP	PA-O3A-PB	-3.55	120.64	132.83
107	AZ	501	GTP	PA-O3A-PB	-3.55	120.64	132.83
109	TT	501	GDP	PA-O3A-PB	-3.55	120.65	132.83
107	RF	502	GTP	PA-O3A-PB	-3.55	120.66	132.83
109	DF	501	GDP	PA-O3A-PB	-3.54	120.67	132.83
109	MH	501	GDP	PA-O3A-PB	-3.54	120.67	132.83
109	SD	501	GDP	PA-O3A-PB	-3.54	120.67	132.83
107	GE	501	GTP	PB-O3B-PG	-3.54	120.67	132.83
109	DN	501	GDP	PA-O3A-PB	-3.54	120.68	132.83
109	HZ	501	GDP	PA-O3A-PB	-3.54	120.68	132.83
107	UU	501	GTP	PB-O3B-PG	-3.54	120.69	132.83
109	KJ	501	GDP	PA-O3A-PB	-3.54	120.69	132.83
109	RH	501	GDP	PA-O3A-PB	-3.54	120.69	132.83
107	QW	501	GTP	PB-O3B-PG	-3.54	120.69	132.83
107	BO	501	GTP	PA-O3A-PB	-3.53	120.70	132.83
109	CB	501	GDP	PA-O3A-PB	-3.53	120.70	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	NT	501	GDP	PA-O3A-PB	-3.53	120.70	132.83
107	JW	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
107	IY	501	GTP	PA-O3A-PB	-3.53	120.71	132.83
107	BG	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
107	EW	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
109	FD	501	GDP	PA-O3A-PB	-3.53	120.72	132.83
109	DZ	501	GDP	PA-O3A-PB	-3.53	120.72	132.83
107	WO	501	GTP	PB-O3B-PG	-3.52	120.74	132.83
107	TI	501	GTP	C5-C6-N1	3.52	120.17	113.95
109	GV	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
109	UX	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
109	DX	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
107	BK	501	GTP	PA-O3A-PB	-3.52	120.74	132.83
109	IT	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
109	VL	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
109	VH	501	GDP	PA-O3A-PB	-3.52	120.76	132.83
109	CJ	501	GDP	PA-O3A-PB	-3.52	120.76	132.83
109	HX	501	GDP	PA-O3A-PB	-3.51	120.77	132.83
109	CD	501	GDP	PA-O3A-PB	-3.51	120.77	132.83
107	RI	501	GTP	PB-O3B-PG	-3.51	120.78	132.83
109	HJ	501	GDP	PA-O3A-PB	-3.51	120.78	132.83
107	TM	501	GTP	C5-C6-N1	3.51	120.15	113.95
107	OU	501	GTP	PA-O3A-PB	-3.51	120.78	132.83
107	UO	501	GTP	PA-O3A-PB	-3.51	120.78	132.83
109	KD	501	GDP	PA-O3A-PB	-3.51	120.79	132.83
107	AY	501	GTP	PA-O3A-PB	-3.51	120.79	132.83
107	WA	501	GTP	PB-O3B-PG	-3.50	120.80	132.83
107	AM	501	GTP	PA-O3A-PB	-3.50	120.80	132.83
107	AO	501	GTP	PA-O3A-PB	-3.50	120.80	132.83
107	GW	501	GTP	PB-O3B-PG	-3.50	120.81	132.83
109	WJ	501	GDP	PA-O3A-PB	-3.50	120.81	132.83
107	QX	502	GTP	PB-O3B-PG	-3.50	120.83	132.83
109	SV	501	GDP	PA-O3A-PB	-3.50	120.83	132.83
107	MY	501	GTP	PA-O3A-PB	-3.49	120.83	132.83
107	US	501	GTP	PA-O3A-PB	-3.49	120.84	132.83
109	RX	501	GDP	PA-O3A-PB	-3.49	120.84	132.83
107	QA	501	GTP	PB-O3B-PG	-3.49	120.85	132.83
107	PE	501	GTP	PB-O3B-PG	-3.49	120.85	132.83
109	CN	501	GDP	PA-O3A-PB	-3.49	120.86	132.83
107	GM	501	GTP	C5-C6-N1	3.49	120.11	113.95
107	TY	501	GTP	C5-C6-N1	3.48	120.10	113.95
107	BA	501	GTP	PB-O3B-PG	-3.48	120.87	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	EX	501	GDP	PA-O3A-PB	-3.48	120.88	132.83
109	KL	501	GDP	PA-O3A-PB	-3.48	120.88	132.83
109	MP	501	GDP	PA-O3A-PB	-3.48	120.89	132.83
107	UM	501	GTP	C5-C6-N1	3.48	120.09	113.95
107	IS	501	GTP	PA-O3A-PB	-3.48	120.89	132.83
107	BQ	501	GTP	PA-O3A-PB	-3.48	120.89	132.83
109	QP	501	GDP	PA-O3A-PB	-3.48	120.90	132.83
109	ED	501	GDP	PA-O3A-PB	-3.47	120.90	132.83
107	EI	501	GTP	PA-O3A-PB	-3.47	120.90	132.83
109	TH	501	GDP	PA-O3A-PB	-3.47	120.91	132.83
107	BW	501	GTP	PB-O3B-PG	-3.47	120.91	132.83
107	IO	501	GTP	PA-O3A-PB	-3.47	120.91	132.83
109	QT	501	GDP	PA-O3A-PB	-3.47	120.91	132.83
109	QJ	501	GDP	PA-O3A-PB	-3.47	120.91	132.83
109	TZ	501	GDP	PA-O3A-PB	-3.47	120.92	132.83
109	RJ	501	GDP	PA-O3A-PB	-3.47	120.93	132.83
107	BU	501	GTP	PA-O3A-PB	-3.47	120.93	132.83
109	CV	501	GDP	PA-O3A-PB	-3.46	120.94	132.83
107	MS	501	GTP	PA-O3A-PB	-3.46	120.94	132.83
107	BG	501	GTP	PA-O3A-PB	-3.46	120.95	132.83
109	DH	501	GDP	PA-O3A-PB	-3.46	120.95	132.83
109	DJ	501	GDP	PA-O3A-PB	-3.46	120.95	132.83
107	MT	502	GTP	PA-O3A-PB	-3.46	120.95	132.83
109	CL	501	GDP	PA-O3A-PB	-3.46	120.95	132.83
107	QL	502	GTP	PB-O3B-PG	-3.46	120.95	132.83
109	FZ	501	GDP	PA-O3A-PB	-3.46	120.97	132.83
109	KB	501	GDP	PA-O3A-PB	-3.46	120.97	132.83
107	AG	501	GTP	PA-O3A-PB	-3.45	120.97	132.83
107	AW	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
107	QW	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
107	VN	502	GTP	PA-O3A-PB	-3.45	120.98	132.83
107	MG	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
109	SJ	501	GDP	PA-O3A-PB	-3.45	120.98	132.83
107	LC	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
109	KN	501	GDP	PA-O3A-PB	-3.45	120.98	132.83
107	BS	501	GTP	PA-O3A-PB	-3.45	120.99	132.83
109	VJ	501	GDP	PA-O3A-PB	-3.45	121.00	132.83
107	RC	501	GTP	PB-O3B-PG	-3.45	121.00	132.83
107	RN	502	GTP	PA-O3A-PB	-3.45	121.00	132.83
109	DP	501	GDP	PA-O3A-PB	-3.45	121.00	132.83
109	HB	501	GDP	PA-O3A-PB	-3.45	121.00	132.83
107	MC	501	GTP	PA-O3A-PB	-3.44	121.01	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	CJ	501	GDP	C3'-C2'-C1'	3.44	106.16	100.98
107	ID	502	GTP	PA-O3A-PB	-3.44	121.01	132.83
109	GB	501	GDP	PA-O3A-PB	-3.44	121.01	132.83
109	RV	501	GDP	PA-O3A-PB	-3.44	121.01	132.83
109	TN	501	GDP	PA-O3A-PB	-3.44	121.01	132.83
109	CT	501	GDP	PA-O3A-PB	-3.44	121.02	132.83
107	TU	501	GTP	PA-O3A-PB	-3.44	121.02	132.83
107	GU	501	GTP	PB-O3B-PG	-3.44	121.02	132.83
109	ET	501	GDP	PA-O3A-PB	-3.44	121.02	132.83
109	KH	501	GDP	PA-O3A-PB	-3.44	121.02	132.83
107	PG	501	GTP	PB-O3B-PG	-3.44	121.03	132.83
109	CX	501	GDP	PA-O3A-PB	-3.44	121.03	132.83
107	WK	501	GTP	PB-O3B-PG	-3.44	121.03	132.83
107	HU	501	GTP	PB-O3B-PG	-3.44	121.03	132.83
109	FB	501	GDP	C3'-C2'-C1'	3.44	106.15	100.98
107	WS	501	GTP	PB-O3B-PG	-3.44	121.03	132.83
109	LL	501	GDP	PA-O3A-PB	-3.44	121.03	132.83
109	KZ	501	GDP	PA-O3A-PB	-3.43	121.04	132.83
107	OI	501	GTP	PA-O3A-PB	-3.43	121.04	132.83
107	KW	501	GTP	PB-O3B-PG	-3.43	121.05	132.83
107	NC	501	GTP	PA-O3A-PB	-3.43	121.05	132.83
109	LZ	501	GDP	PA-O3A-PB	-3.43	121.06	132.83
107	TQ	501	GTP	C5-C6-N1	3.43	120.01	113.95
109	QL	501	GDP	PA-O3A-PB	-3.43	121.06	132.83
109	EP	501	GDP	PA-O3A-PB	-3.43	121.07	132.83
107	VS	501	GTP	PB-O3B-PG	-3.42	121.08	132.83
109	VN	501	GDP	PA-O3A-PB	-3.42	121.08	132.83
109	BV	501	GDP	C3'-C2'-C1'	3.42	106.13	100.98
107	CS	501	GTP	PB-O3B-PG	-3.42	121.08	132.83
107	BI	501	GTP	PA-O3A-PB	-3.42	121.09	132.83
107	AI	501	GTP	PA-O3A-PB	-3.42	121.09	132.83
107	KN	502	GTP	PB-O3B-PG	-3.42	121.09	132.83
109	TF	501	GDP	PA-O3A-PB	-3.42	121.10	132.83
107	DE	501	GTP	PB-O3B-PG	-3.42	121.10	132.83
107	AU	501	GTP	PA-O3A-PB	-3.42	121.10	132.83
109	RD	501	GDP	C3'-C2'-C1'	3.42	106.12	100.98
107	KQ	501	GTP	C5-C6-N1	3.41	119.98	113.95
107	VU	501	GTP	PB-O3B-PG	-3.41	121.12	132.83
107	LU	501	GTP	PA-O3A-PB	-3.41	121.12	132.83
107	QX	502	GTP	PA-O3A-PB	-3.41	121.12	132.83
109	PD	501	GDP	PA-O3A-PB	-3.41	121.12	132.83
107	HS	501	GTP	PB-O3B-PG	-3.41	121.13	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	OO	501	GTP	PA-O3A-PB	-3.41	121.13	132.83
107	BU	501	GTP	PB-O3B-PG	-3.41	121.14	132.83
107	TB	502	GTP	PA-O3A-PB	-3.41	121.14	132.83
107	PM	501	GTP	PB-O3B-PG	-3.41	121.14	132.83
107	WG	501	GTP	PB-O3B-PG	-3.41	121.14	132.83
107	AE	501	GTP	PB-O3B-PG	-3.40	121.15	132.83
107	VM	501	GTP	PB-O3B-PG	-3.40	121.15	132.83
107	WC	501	GTP	PB-O3B-PG	-3.40	121.15	132.83
107	KU	501	GTP	C5-C6-N1	3.40	119.96	113.95
107	HI	501	GTP	PB-O3B-PG	-3.40	121.16	132.83
109	SF	501	GDP	PA-O3A-PB	-3.40	121.16	132.83
107	VW	501	GTP	C8-N7-C5	3.40	109.47	102.99
109	FP	501	GDP	PA-O3A-PB	-3.40	121.16	132.83
107	PT	502	GTP	C5-C6-N1	3.40	119.96	113.95
109	DD	501	GDP	PA-O3A-PB	-3.40	121.16	132.83
107	FM	501	GTP	C5-C6-N1	3.40	119.95	113.95
107	HE	501	GTP	PB-O3B-PG	-3.40	121.16	132.83
107	BC	501	GTP	PA-O3A-PB	-3.40	121.16	132.83
107	KM	501	GTP	PB-O3B-PG	-3.40	121.17	132.83
109	IP	501	GDP	PA-O3A-PB	-3.40	121.17	132.83
107	BY	501	GTP	PA-O3A-PB	-3.40	121.17	132.83
107	IW	501	GTP	PA-O3A-PB	-3.40	121.17	132.83
107	TU	501	GTP	C5-C6-N1	3.40	119.95	113.95
107	CO	501	GTP	PB-O3B-PG	-3.39	121.18	132.83
107	RN	502	GTP	PB-O3B-PG	-3.39	121.19	132.83
107	QU	501	GTP	PA-O3A-PB	-3.39	121.19	132.83
107	HQ	501	GTP	PB-O3B-PG	-3.39	121.19	132.83
109	PJ	501	GDP	PA-O3A-PB	-3.39	121.20	132.83
107	KM	501	GTP	C5-C6-N1	3.39	119.93	113.95
107	AQ	501	GTP	PA-O3A-PB	-3.39	121.21	132.83
107	EG	501	GTP	C5-C6-N1	3.39	119.93	113.95
107	BQ	501	GTP	PB-O3B-PG	-3.38	121.22	132.83
107	RS	501	GTP	C5-C6-N1	3.38	119.93	113.95
107	NO	501	GTP	PA-O3A-PB	-3.38	121.22	132.83
109	TV	501	GDP	PA-O3A-PB	-3.38	121.23	132.83
107	CG	501	GTP	PA-O3A-PB	-3.38	121.23	132.83
107	QK	501	GTP	PA-O3A-PB	-3.38	121.24	132.83
109	TH	501	GDP	C3'-C2'-C1'	3.38	106.06	100.98
107	UG	501	GTP	C5-C6-N1	3.38	119.91	113.95
107	EW	501	GTP	PA-O3A-PB	-3.38	121.24	132.83
109	LH	501	GDP	PA-O3A-PB	-3.38	121.24	132.83
107	WW	501	GTP	PA-O3A-PB	-3.38	121.24	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	GJ	501	GDP	PA-O3A-PB	-3.37	121.25	132.83
107	MY	501	GTP	C5-C6-N1	3.37	119.91	113.95
107	MC	501	GTP	PB-O3B-PG	-3.37	121.25	132.83
109	GB	501	GDP	C3'-C2'-C1'	3.37	106.05	100.98
107	VC	501	GTP	PB-O3B-PG	-3.37	121.26	132.83
107	BI	501	GTP	C5-C6-N1	3.37	119.90	113.95
107	BY	501	GTP	PB-O3B-PG	-3.37	121.27	132.83
107	IA	501	GTP	C5-C6-N1	3.37	119.90	113.95
107	MQ	501	GTP	C5-C6-N1	3.37	119.90	113.95
107	SX	502	GTP	PA-O3A-PB	-3.37	121.28	132.83
109	SL	501	GDP	PA-O3A-PB	-3.37	121.28	132.83
107	WG	501	GTP	PA-O3A-PB	-3.36	121.28	132.83
109	KP	501	GDP	PA-O3A-PB	-3.36	121.29	132.83
107	EK	501	GTP	PB-O3B-PG	-3.36	121.30	132.83
107	VK	501	GTP	PB-O3B-PG	-3.36	121.30	132.83
109	PL	501	GDP	PA-O3A-PB	-3.36	121.30	132.83
107	MG	501	GTP	PB-O3B-PG	-3.36	121.30	132.83
109	EB	501	GDP	C3'-C2'-C1'	3.35	106.03	100.98
107	MS	501	GTP	PB-O3B-PG	-3.35	121.32	132.83
107	QO	501	GTP	PA-O3A-PB	-3.35	121.32	132.83
107	JW	501	GTP	C5-C6-N1	3.35	119.87	113.95
109	KT	501	GDP	PA-O3A-PB	-3.35	121.32	132.83
107	TU	501	GTP	PB-O3B-PG	-3.35	121.32	132.83
107	NL	502	GTP	C5-C6-N1	3.35	119.87	113.95
107	AI	501	GTP	PB-O3B-PG	-3.35	121.33	132.83
107	MM	501	GTP	PB-O3B-PG	-3.35	121.33	132.83
109	DB	501	GDP	PA-O3A-PB	-3.35	121.33	132.83
107	VW	501	GTP	C5-C6-N1	3.35	119.86	113.95
107	MQ	501	GTP	PB-O3B-PG	-3.35	121.34	132.83
107	AG	501	GTP	PB-O3B-PG	-3.35	121.34	132.83
107	FY	501	GTP	C5-C6-N1	3.35	119.86	113.95
109	RF	501	GDP	C3'-C2'-C1'	3.35	106.02	100.98
107	SL	502	GTP	PA-O3A-PB	-3.35	121.35	132.83
107	AO	501	GTP	C5-C6-N1	3.35	119.86	113.95
107	UM	501	GTP	PA-O3A-PB	-3.35	121.35	132.83
107	PC	501	GTP	PB-O3B-PG	-3.34	121.35	132.83
107	BW	501	GTP	C5-C6-N1	3.34	119.86	113.95
109	TF	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
107	BO	501	GTP	PB-O3B-PG	-3.34	121.36	132.83
107	LO	501	GTP	PA-O3A-PB	-3.34	121.36	132.83
107	NL	502	GTP	PB-O3B-PG	-3.34	121.36	132.83
107	LE	501	GTP	C5-C6-N1	3.34	119.85	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	ST	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
107	MA	501	GTP	PA-O3A-PB	-3.34	121.36	132.83
107	OQ	501	GTP	C5-C6-N1	3.34	119.85	113.95
107	TI	501	GTP	PB-O3B-PG	-3.34	121.37	132.83
107	MC	501	GTP	C5-C6-N1	3.34	119.85	113.95
107	AW	501	GTP	C5-C6-N1	3.34	119.85	113.95
107	MG	501	GTP	C5-C6-N1	3.34	119.85	113.95
107	BS	501	GTP	C5-C6-N1	3.34	119.84	113.95
107	WG	501	GTP	C5-C6-N1	3.34	119.84	113.95
109	BR	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
107	MK	501	GTP	PB-O3B-PG	-3.34	121.38	132.83
107	RQ	501	GTP	PB-O3B-PG	-3.34	121.38	132.83
107	JM	501	GTP	PA-O3A-PB	-3.34	121.38	132.83
107	DC	501	GTP	PA-O3A-PB	-3.33	121.38	132.83
109	HN	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
109	TV	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
107	HY	501	GTP	PB-O3B-PG	-3.33	121.38	132.83
107	BG	501	GTP	C5-C6-N1	3.33	119.84	113.95
107	KY	501	GTP	C5-C6-N1	3.33	119.84	113.95
109	BT	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
109	MX	501	GDP	PA-O3A-PB	-3.33	121.39	132.83
107	WI	501	GTP	PB-O3B-PG	-3.33	121.39	132.83
109	SB	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
107	OM	501	GTP	PA-O3A-PB	-3.33	121.39	132.83
109	MD	501	GDP	PA-O3A-PB	-3.33	121.39	132.83
107	KS	501	GTP	PA-O3A-PB	-3.33	121.40	132.83
107	FE	501	GTP	C5-C6-N1	3.33	119.83	113.95
107	KF	502	GTP	C5-C6-N1	3.33	119.83	113.95
107	VU	501	GTP	C5-C6-N1	3.33	119.83	113.95
107	RK	501	GTP	C5-C6-N1	3.33	119.83	113.95
107	BK	501	GTP	PB-O3B-PG	-3.33	121.41	132.83
107	AI	501	GTP	C5-C6-N1	3.33	119.83	113.95
107	KE	501	GTP	C5-C6-N1	3.33	119.82	113.95
109	LX	501	GDP	PA-O3A-PB	-3.32	121.42	132.83
107	WO	501	GTP	C5-C6-N1	3.32	119.82	113.95
107	QI	501	GTP	C5-C6-N1	3.32	119.82	113.95
107	VS	501	GTP	C5-C6-N1	3.32	119.82	113.95
107	SK	501	GTP	PA-O3A-PB	-3.32	121.43	132.83
107	EQ	501	GTP	PA-O3A-PB	-3.32	121.43	132.83
109	TL	501	GDP	PA-O3A-PB	-3.32	121.43	132.83
107	MS	501	GTP	C5-C6-N1	3.32	119.81	113.95
107	BW	501	GTP	PA-O3A-PB	-3.32	121.44	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	VB	501	GDP	C3'-C2'-C1'	3.32	105.97	100.98
107	RF	502	GTP	C5-C6-N1	3.32	119.81	113.95
107	JG	501	GTP	PA-O3A-PB	-3.32	121.44	132.83
107	JQ	501	GTP	C5-C6-N1	3.32	119.81	113.95
109	FR	501	GDP	PA-O3A-PB	-3.32	121.44	132.83
107	DY	501	GTP	C5-C6-N1	3.32	119.81	113.95
107	ME	501	GTP	C5-C6-N1	3.32	119.81	113.95
107	MA	501	GTP	C5-C6-N1	3.32	119.81	113.95
107	MK	501	GTP	C5-C6-N1	3.32	119.81	113.95
109	EJ	501	GDP	PA-O3A-PB	-3.32	121.45	132.83
107	DQ	501	GTP	C5-C6-N1	3.32	119.81	113.95
109	DV	501	GDP	PA-O3A-PB	-3.32	121.45	132.83
107	DS	501	GTP	PB-O3B-PG	-3.31	121.45	132.83
107	KE	501	GTP	PB-O3B-PG	-3.31	121.45	132.83
107	CQ	501	GTP	C5-C6-N1	3.31	119.80	113.95
107	GO	501	GTP	PA-O3A-PB	-3.31	121.46	132.83
107	NA	501	GTP	PB-O3B-PG	-3.31	121.46	132.83
107	AM	501	GTP	C5-C6-N1	3.31	119.80	113.95
107	PA	501	GTP	PB-O3B-PG	-3.31	121.47	132.83
107	AS	501	GTP	PB-O3B-PG	-3.31	121.47	132.83
107	CI	501	GTP	C5-C6-N1	3.31	119.80	113.95
107	QU	501	GTP	C5-C6-N1	3.31	119.80	113.95
107	WM	501	GTP	PB-O3B-PG	-3.31	121.47	132.83
107	KI	501	GTP	C5-C6-N1	3.31	119.80	113.95
107	MM	501	GTP	C5-C6-N1	3.31	119.79	113.95
109	GZ	501	GDP	PA-O3A-PB	-3.31	121.48	132.83
109	SR	501	GDP	C3'-C2'-C1'	3.31	105.96	100.98
107	KW	501	GTP	C5-C6-N1	3.31	119.79	113.95
107	KS	501	GTP	PB-O3B-PG	-3.31	121.48	132.83
107	WW	501	GTP	C5-C6-N1	3.31	119.79	113.95
107	WU	501	GTP	PB-O3B-PG	-3.31	121.48	132.83
109	UR	501	GDP	C3'-C2'-C1'	3.31	105.95	100.98
107	CO	501	GTP	PA-O3A-PB	-3.30	121.48	132.83
109	RP	501	GDP	PA-O3A-PB	-3.30	121.49	132.83
107	KK	501	GTP	C5-C6-N1	3.30	119.79	113.95
107	PQ	501	GTP	C5-C6-N1	3.30	119.79	113.95
107	FU	501	GTP	C5-C6-N1	3.30	119.79	113.95
107	HK	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	AS	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	FE	501	GTP	PB-O3B-PG	-3.30	121.50	132.83
107	CU	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	AE	501	GTP	C5-C6-N1	3.30	119.78	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	MI	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	OO	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	RC	501	GTP	C5-C6-N1	3.30	119.78	113.95
109	UZ	501	GDP	PA-O3A-PB	-3.30	121.50	132.83
107	EI	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	MT	502	GTP	C5-C6-N1	3.30	119.78	113.95
107	UO	501	GTP	C5-C6-N1	3.30	119.78	113.95
109	PX	501	GDP	PA-O3A-PB	-3.30	121.50	132.83
107	PK	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	CG	501	GTP	C5-C6-N1	3.30	119.78	113.95
107	EM	501	GTP	C5-C6-N1	3.30	119.77	113.95
107	TW	501	GTP	C5-C6-N1	3.30	119.77	113.95
107	KN	502	GTP	C5-C6-N1	3.30	119.77	113.95
107	QL	502	GTP	C5-C6-N1	3.30	119.77	113.95
107	RM	501	GTP	C5-C6-N1	3.30	119.77	113.95
107	RN	502	GTP	C5-C6-N1	3.30	119.77	113.95
107	RS	501	GTP	PB-O3B-PG	-3.30	121.52	132.83
107	NU	501	GTP	C5-C6-N1	3.29	119.77	113.95
107	RQ	501	GTP	C5-C6-N1	3.29	119.77	113.95
107	TK	501	GTP	C5-C6-N1	3.29	119.77	113.95
107	JD	502	GTP	C5-C6-N1	3.29	119.77	113.95
107	JU	501	GTP	C5-C6-N1	3.29	119.77	113.95
107	AG	501	GTP	C5-C6-N1	3.29	119.77	113.95
107	WE	501	GTP	PB-O3B-PG	-3.29	121.53	132.83
107	DW	501	GTP	C5-C6-N1	3.29	119.77	113.95
109	PF	501	GDP	PA-O3A-PB	-3.29	121.53	132.83
107	HI	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	NA	501	GTP	PA-O3A-PB	-3.29	121.53	132.83
109	TT	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
107	JC	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	QC	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	ND	502	GTP	PA-O3A-PB	-3.29	121.53	132.83
107	BE	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	EQ	501	GTP	C5-C6-N1	3.29	119.76	113.95
109	QX	501	GDP	PA-O3A-PB	-3.29	121.53	132.83
109	TB	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
107	CS	501	GTP	C5-C6-N1	3.29	119.76	113.95
109	UB	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
107	RI	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	HI	501	GTP	PA-O3A-PB	-3.29	121.54	132.83
107	BA	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	EU	501	GTP	C5-C6-N1	3.29	119.76	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	RV	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
107	NG	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	TM	501	GTP	PB-O3B-PG	-3.29	121.55	132.83
107	RY	501	GTP	C5-C6-N1	3.29	119.76	113.95
107	CK	501	GTP	C5-C6-N1	3.29	119.75	113.95
109	UN	501	GDP	C3'-C2'-C1'	3.29	105.92	100.98
107	TB	502	GTP	C5-C6-N1	3.28	119.75	113.95
107	JG	501	GTP	C5-C6-N1	3.28	119.75	113.95
107	JO	501	GTP	C5-C6-N1	3.28	119.75	113.95
107	DG	501	GTP	C5-C6-N1	3.28	119.75	113.95
107	WA	501	GTP	C5-C6-N1	3.28	119.75	113.95
107	JJ	502	GTP	C5-C6-N1	3.28	119.75	113.95
107	VN	502	GTP	C5-C6-N1	3.28	119.74	113.95
107	CE	501	GTP	PB-O3B-PG	-3.28	121.57	132.83
107	AY	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	EE	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	MN	502	GTP	C5-C6-N1	3.28	119.74	113.95
107	VY	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	CO	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	LK	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	AZ	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	OS	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	EU	501	GTP	PA-O3A-PB	-3.28	121.58	132.83
107	SO	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	TG	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	VE	501	GTP	C5-C6-N1	3.28	119.74	113.95
107	BC	501	GTP	PB-O3B-PG	-3.28	121.59	132.83
107	BK	501	GTP	C5-C6-N1	3.28	119.73	113.95
107	AC	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	DS	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	VQ	501	GTP	C5-C6-N1	3.27	119.73	113.95
109	RR	501	GDP	C3'-C2'-C1'	3.27	105.91	100.98
109	PT	501	GDP	PA-O3A-PB	-3.27	121.59	132.83
107	JI	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	LO	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	SU	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	HN	502	GTP	C5-C6-N1	3.27	119.73	113.95
107	JM	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	WU	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	EO	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	HE	501	GTP	C5-C6-N1	3.27	119.73	113.95
107	PA	501	GTP	C5-C6-N1	3.27	119.73	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	HM	501	GTP	PB-O3B-PG	-3.27	121.61	132.83
109	TN	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
107	SR	502	GTP	C5-C6-N1	3.27	119.72	113.95
107	SE	501	GTP	C5-C6-N1	3.27	119.72	113.95
107	WM	501	GTP	C5-C6-N1	3.27	119.72	113.95
109	WP	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
107	IK	501	GTP	C5-C6-N1	3.27	119.72	113.95
109	RL	501	GDP	PA-O3A-PB	-3.27	121.61	132.83
107	NA	501	GTP	C5-C6-N1	3.27	119.72	113.95
107	IW	501	GTP	C5-C6-N1	3.27	119.72	113.95
107	OW	501	GTP	C5-C6-N1	3.27	119.72	113.95
107	QQ	501	GTP	C5-C6-N1	3.27	119.72	113.95
107	BC	501	GTP	C5-C6-N1	3.26	119.72	113.95
107	HM	501	GTP	C5-C6-N1	3.26	119.72	113.95
107	KS	501	GTP	C5-C6-N1	3.26	119.72	113.95
107	LW	501	GTP	C5-C6-N1	3.26	119.72	113.95
107	SI	501	GTP	C5-C6-N1	3.26	119.72	113.95
107	GQ	501	GTP	C3'-C2'-C1'	3.26	105.89	100.98
109	CB	501	GDP	C3'-C2'-C1'	3.26	105.89	100.98
109	PN	501	GDP	PA-O3A-PB	-3.26	121.63	132.83
107	KE	501	GTP	PA-O3A-PB	-3.26	121.63	132.83
109	QF	501	GDP	PA-O3A-PB	-3.26	121.63	132.83
109	VX	501	GDP	PA-O3A-PB	-3.26	121.63	132.83
107	MW	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	DI	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	RT	502	GTP	C5-C6-N1	3.26	119.71	113.95
107	SW	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	CE	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	EY	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	RA	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	DU	501	GTP	PA-O3A-PB	-3.26	121.64	132.83
107	OG	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	BS	501	GTP	PB-O3B-PG	-3.26	121.64	132.83
109	SV	501	GDP	C3'-C2'-C1'	3.26	105.89	100.98
107	DO	501	GTP	C5-C6-N1	3.26	119.71	113.95
107	TN	502	GTP	C5-C6-N1	3.26	119.71	113.95
109	BF	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
107	BO	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	EC	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	FK	501	GTP	C5-C6-N1	3.26	119.70	113.95
109	TJ	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
107	LE	501	GTP	PA-O3A-PB	-3.26	121.65	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	GU	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	II	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	UI	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	TW	501	GTP	PB-O3B-PG	-3.26	121.65	132.83
107	BQ	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	DU	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	LQ	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	OA	501	GTP	C5-C6-N1	3.26	119.70	113.95
109	CR	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
107	AU	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	GW	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	DK	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	JR	502	GTP	C5-C6-N1	3.26	119.70	113.95
107	UU	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	TQ	501	GTP	PA-O3A-PB	-3.26	121.65	132.83
107	HQ	501	GTP	C5-C6-N1	3.26	119.70	113.95
107	WI	501	GTP	C5-C6-N1	3.26	119.70	113.95
109	NP	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
109	SP	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
107	CC	501	GTP	C5-C6-N1	3.25	119.70	113.95
107	FS	501	GTP	C5-C6-N1	3.25	119.70	113.95
107	SQ	501	GTP	C5-C6-N1	3.25	119.70	113.95
107	WC	501	GTP	C5-C6-N1	3.25	119.70	113.95
107	CW	501	GTP	C5-C6-N1	3.25	119.70	113.95
109	EL	501	GDP	PA-O3A-PB	-3.25	121.66	132.83
107	TG	501	GTP	PB-O3B-PG	-3.25	121.66	132.83
107	WK	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	OG	501	GTP	PA-O3A-PB	-3.25	121.67	132.83
107	PI	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	AQ	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	QI	501	GTP	PA-O3A-PB	-3.25	121.67	132.83
107	SL	502	GTP	C5-C6-N1	3.25	119.69	113.95
107	UI	501	GTP	PA-O3A-PB	-3.25	121.67	132.83
109	UV	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
107	BM	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	LS	501	GTP	C5-C6-N1	3.25	119.69	113.95
109	RN	501	GDP	PA-O3A-PB	-3.25	121.67	132.83
107	IM	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	QD	502	GTP	C5-C6-N1	3.25	119.69	113.95
107	LQ	501	GTP	PA-O3A-PB	-3.25	121.68	132.83
107	VM	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	CY	501	GTP	C5-C6-N1	3.25	119.69	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	QA	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	KC	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	LG	501	GTP	C5-C6-N1	3.25	119.69	113.95
107	SK	501	GTP	C5-C6-N1	3.25	119.68	113.95
107	BA	501	GTP	PA-O3A-PB	-3.25	121.69	132.83
107	RW	501	GTP	C5-C6-N1	3.25	119.68	113.95
107	RE	501	GTP	C5-C6-N1	3.25	119.68	113.95
109	CX	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
109	CZ	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
107	TE	501	GTP	PA-O3A-PB	-3.24	121.69	132.83
107	QG	501	GTP	C5-C6-N1	3.24	119.68	113.95
107	GO	501	GTP	C5-C6-N1	3.24	119.68	113.95
107	HY	501	GTP	C5-C6-N1	3.24	119.68	113.95
107	WE	501	GTP	C5-C6-N1	3.24	119.68	113.95
109	OT	501	GDP	PA-O3A-PB	-3.24	121.70	132.83
109	EP	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
107	CM	501	GTP	C5-C6-N1	3.24	119.68	113.95
107	PC	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	SG	501	GTP	C5-C6-N1	3.24	119.67	113.95
109	QV	501	GDP	PA-O3A-PB	-3.24	121.71	132.83
107	MQ	501	GTP	PA-O3A-PB	-3.24	121.71	132.83
107	WS	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	TK	501	GTP	PB-O3B-PG	-3.24	121.71	132.83
107	IM	501	GTP	PA-O3A-PB	-3.24	121.72	132.83
107	OE	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	NO	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	SC	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	UQ	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	PW	501	GTP	C3'-C2'-C1'	3.24	105.85	100.98
107	VE	501	GTP	PB-O3B-PG	-3.24	121.72	132.83
107	AE	501	GTP	PA-O3A-PB	-3.24	121.72	132.83
107	VK	501	GTP	C5-C6-N1	3.24	119.67	113.95
107	AK	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	OC	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	VG	501	GTP	C5-C6-N1	3.23	119.66	113.95
109	KN	501	GDP	C3'-C2'-C1'	3.23	105.85	100.98
109	TR	501	GDP	C3'-C2'-C1'	3.23	105.85	100.98
109	KB	501	GDP	C3'-C2'-C1'	3.23	105.85	100.98
107	EO	501	GTP	PA-O3A-PB	-3.23	121.73	132.83
107	VC	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	HA	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	UW	501	GTP	C5-C6-N1	3.23	119.66	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	CI	501	GTP	PA-O3A-PB	-3.23	121.73	132.83
107	GE	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	FU	501	GTP	PA-O3A-PB	-3.23	121.74	132.83
107	IO	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	QK	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	FG	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	HC	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	GX	502	GTP	C5-C6-N1	3.23	119.66	113.95
107	OI	501	GTP	C5-C6-N1	3.23	119.66	113.95
107	FM	501	GTP	PB-O3B-PG	-3.23	121.75	132.83
107	MK	501	GTP	PA-O3A-PB	-3.23	121.75	132.83
107	PM	501	GTP	C5-C6-N1	3.23	119.65	113.95
107	QR	502	GTP	C5-C6-N1	3.23	119.65	113.95
107	WQ	501	GTP	PB-O3B-PG	-3.23	121.75	132.83
109	FF	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
109	VV	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
107	PA	501	GTP	PA-O3A-PB	-3.23	121.75	132.83
109	CP	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
107	HW	501	GTP	C5-C6-N1	3.23	119.65	113.95
107	ES	501	GTP	C5-C6-N1	3.23	119.65	113.95
107	HY	501	GTP	PA-O3A-PB	-3.23	121.75	132.83
107	BU	501	GTP	C5-C6-N1	3.23	119.65	113.95
109	EZ	501	GDP	PA-O3A-PB	-3.23	121.76	132.83
107	PQ	501	GTP	PA-O3A-PB	-3.23	121.76	132.83
107	TS	501	GTP	C5-C6-N1	3.23	119.65	113.95
107	OY	501	GTP	C5-C6-N1	3.22	119.65	113.95
109	ED	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
109	RH	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
107	HC	501	GTP	PB-O3B-PG	-3.22	121.76	132.83
107	OA	501	GTP	PB-O3B-PG	-3.22	121.76	132.83
107	WS	501	GTP	PA-O3A-PB	-3.22	121.76	132.83
107	VC	501	GTP	PA-O3A-PB	-3.22	121.76	132.83
107	IC	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	LU	501	GTP	C5-C6-N1	3.22	119.64	113.95
109	RJ	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
107	FC	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	PY	501	GTP	C5-C6-N1	3.22	119.64	113.95
109	CT	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
107	OK	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	DQ	501	GTP	PA-O3A-PB	-3.22	121.77	132.83
107	GR	502	GTP	C5-C6-N1	3.22	119.64	113.95
107	LI	501	GTP	C5-C6-N1	3.22	119.64	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	NQ	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	BY	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	IS	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	NI	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	DE	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	FW	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	UC	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	LC	501	GTP	C5-C6-N1	3.22	119.64	113.95
109	JB	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
107	OE	501	GTP	PA-O3A-PB	-3.22	121.78	132.83
107	DM	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	GC	501	GTP	C5-C6-N1	3.22	119.64	113.95
107	FN	502	GTP	C5-C6-N1	3.22	119.64	113.95
107	EW	501	GTP	C5-C6-N1	3.22	119.63	113.95
107	PS	501	GTP	C5-C6-N1	3.22	119.63	113.95
109	IR	501	GDP	C3'-C2'-C1'	3.22	105.82	100.98
107	WC	501	GTP	PA-O3A-PB	-3.22	121.79	132.83
107	DC	501	GTP	C5-C6-N1	3.22	119.63	113.95
107	WQ	501	GTP	C5-C6-N1	3.22	119.63	113.95
109	SP	501	GDP	PA-O3A-PB	-3.22	121.79	132.83
107	EK	501	GTP	C5-C6-N1	3.22	119.63	113.95
107	LY	501	GTP	C5-C6-N1	3.21	119.63	113.95
109	MJ	501	GDP	C3'-C2'-C1'	3.21	105.82	100.98
107	QD	502	GTP	PB-O3B-PG	-3.21	121.80	132.83
107	RS	501	GTP	PA-O3A-PB	-3.21	121.80	132.83
107	UE	501	GTP	C5-C6-N1	3.21	119.62	113.95
107	JY	501	GTP	C5-C6-N1	3.21	119.62	113.95
109	NX	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98
107	UW	501	GTP	PA-O3A-PB	-3.21	121.81	132.83
109	VJ	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98
107	WQ	501	GTP	PA-O3A-PB	-3.21	121.81	132.83
107	NC	501	GTP	C5-C6-N1	3.21	119.62	113.95
107	HS	501	GTP	C5-C6-N1	3.21	119.62	113.95
107	PE	501	GTP	C5-C6-N1	3.21	119.62	113.95
109	RB	501	GDP	PA-O3A-PB	-3.21	121.81	132.83
107	FQ	501	GTP	C5-C6-N1	3.21	119.62	113.95
107	FI	501	GTP	C5-C6-N1	3.21	119.61	113.95
107	QX	502	GTP	C5-C6-N1	3.21	119.61	113.95
107	QQ	501	GTP	PA-O3A-PB	-3.21	121.83	132.83
107	KU	501	GTP	PB-O3B-PG	-3.21	121.83	132.83
107	TE	501	GTP	C5-C6-N1	3.20	119.61	113.95
107	RA	501	GTP	PB-O3B-PG	-3.20	121.83	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	FE	501	GTP	PA-O3A-PB	-3.20	121.83	132.83
109	HV	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
109	PV	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
109	FH	501	GDP	PA-O3A-PB	-3.20	121.84	132.83
109	UH	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
107	PN	502	GTP	C5-C6-N1	3.20	119.61	113.95
107	PQ	501	GTP	PB-O3B-PG	-3.20	121.84	132.83
107	RT	502	GTP	PB-O3B-PG	-3.20	121.84	132.83
107	OM	501	GTP	C5-C6-N1	3.20	119.60	113.95
107	OQ	501	GTP	PA-O3A-PB	-3.20	121.84	132.83
107	GI	501	GTP	C5-C6-N1	3.20	119.60	113.95
107	QO	501	GTP	C5-C6-N1	3.20	119.60	113.95
107	QW	501	GTP	C5-C6-N1	3.20	119.60	113.95
107	VI	501	GTP	C5-C6-N1	3.20	119.60	113.95
109	JF	501	GDP	C3'-C2'-C1'	3.20	105.79	100.98
109	BN	501	GDP	C3'-C2'-C1'	3.20	105.79	100.98
109	EB	501	GDP	PA-O3A-PB	-3.20	121.85	132.83
109	HZ	501	GDP	C3'-C2'-C1'	3.20	105.79	100.98
109	JZ	501	GDP	PA-O3A-PB	-3.20	121.86	132.83
107	US	501	GTP	C5-C6-N1	3.20	119.60	113.95
107	OK	501	GTP	PA-O3A-PB	-3.20	121.86	132.83
107	GK	501	GTP	C5-C6-N1	3.20	119.59	113.95
109	GD	501	GDP	C3'-C2'-C1'	3.19	105.79	100.98
107	CU	501	GTP	PA-O3A-PB	-3.19	121.87	132.83
107	SX	502	GTP	C5-C6-N1	3.19	119.59	113.95
107	UK	501	GTP	C5-C6-N1	3.19	119.59	113.95
107	IC	501	GTP	C3'-C2'-C1'	3.19	105.78	100.98
107	IY	501	GTP	C5-C6-N1	3.19	119.59	113.95
107	UY	501	GTP	PA-O3A-PB	-3.19	121.88	132.83
109	FL	501	GDP	PA-O3A-PB	-3.19	121.88	132.83
109	DB	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
107	WO	501	GTP	PA-O3A-PB	-3.19	121.88	132.83
109	VR	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
109	UJ	501	GDP	PA-O3A-PB	-3.19	121.89	132.83
107	AK	501	GTP	PB-O3B-PG	-3.19	121.89	132.83
109	CV	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
109	PR	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
107	PG	501	GTP	C5-C6-N1	3.19	119.58	113.95
107	ID	502	GTP	C5-C6-N1	3.19	119.58	113.95
109	NN	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
109	NZ	501	GDP	C3'-C2'-C1'	3.19	105.77	100.98
109	WL	501	GDP	C3'-C2'-C1'	3.19	105.77	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	NS	501	GTP	C5-C6-N1	3.18	119.58	113.95
107	WM	501	GTP	PA-O3A-PB	-3.18	121.90	132.83
107	GG	501	GTP	C5-C6-N1	3.18	119.57	113.95
107	FN	502	GTP	PB-O3B-PG	-3.18	121.90	132.83
107	VN	502	GTP	PB-O3B-PG	-3.18	121.90	132.83
109	ET	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
109	UJ	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
107	PM	501	GTP	PA-O3A-PB	-3.18	121.91	132.83
109	HP	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
107	IQ	501	GTP	C5-C6-N1	3.18	119.57	113.95
107	PW	501	GTP	C5-C6-N1	3.18	119.57	113.95
107	QR	502	GTP	PA-O3A-PB	-3.18	121.92	132.83
109	RN	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
107	WW	501	GTP	PB-O3B-PG	-3.18	121.92	132.83
107	OU	501	GTP	C5-C6-N1	3.18	119.56	113.95
109	FJ	501	GDP	PA-O3A-PB	-3.18	121.92	132.83
107	LM	501	GTP	C5-C6-N1	3.18	119.56	113.95
107	NW	501	GTP	C5-C6-N1	3.18	119.56	113.95
109	OF	501	GDP	PA-O3A-PB	-3.18	121.93	132.83
107	IS	501	GTP	C3'-C2'-C1'	3.18	105.76	100.98
109	RT	501	GDP	C3'-C2'-C1'	3.18	105.76	100.98
109	ND	501	GDP	C3'-C2'-C1'	3.17	105.76	100.98
109	OT	501	GDP	C3'-C2'-C1'	3.17	105.76	100.98
109	HH	501	GDP	C3'-C2'-C1'	3.17	105.76	100.98
109	EF	501	GDP	PA-O3A-PB	-3.17	121.94	132.83
107	IU	501	GTP	C5-C6-N1	3.17	119.56	113.95
107	FS	501	GTP	PA-O3A-PB	-3.17	121.94	132.83
107	GX	502	GTP	PB-O3B-PG	-3.17	121.94	132.83
107	TQ	501	GTP	PB-O3B-PG	-3.17	121.94	132.83
107	IG	501	GTP	C5-C6-N1	3.17	119.55	113.95
107	GC	501	GTP	C3'-C2'-C1'	3.17	105.75	100.98
107	AU	501	GTP	PB-O3B-PG	-3.17	121.95	132.83
107	FQ	501	GTP	PB-O3B-PG	-3.17	121.95	132.83
107	DK	501	GTP	C3'-C2'-C1'	3.17	105.75	100.98
107	IG	501	GTP	C3'-C2'-C1'	3.17	105.75	100.98
107	LS	501	GTP	C3'-C2'-C1'	3.17	105.75	100.98
109	CL	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
107	LG	501	GTP	PA-O3A-PB	-3.17	121.95	132.83
109	LN	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
109	TD	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
109	VT	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
107	QG	501	GTP	PA-O3A-PB	-3.17	121.96	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	AJ	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
109	RP	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
107	GQ	501	GTP	C5-C6-N1	3.17	119.54	113.95
109	PT	501	GDP	C3'-C2'-C1'	3.17	105.74	100.98
107	HA	501	GTP	PB-O3B-PG	-3.16	121.97	132.83
109	FV	501	GDP	PA-O3A-PB	-3.16	121.97	132.83
107	ES	501	GTP	PA-O3A-PB	-3.16	121.97	132.83
107	FG	501	GTP	PB-O3B-PG	-3.16	121.97	132.83
107	VG	501	GTP	PB-O3B-PG	-3.16	121.98	132.83
107	PE	501	GTP	PA-O3A-PB	-3.16	121.98	132.83
107	LI	501	GTP	PA-O3A-PB	-3.16	121.98	132.83
109	JT	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
109	KF	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
107	BE	501	GTP	PB-O3B-PG	-3.16	122.00	132.83
107	UY	501	GTP	C5-C6-N1	3.16	119.52	113.95
109	AP	501	GDP	C3'-C2'-C1'	3.15	105.73	100.98
107	VY	501	GTP	PA-O3A-PB	-3.15	122.00	132.83
109	FD	501	GDP	C3'-C2'-C1'	3.15	105.73	100.98
109	PX	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
107	OE	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
107	QW	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
107	HF	502	GTP	C5-C6-N1	3.15	119.52	113.95
107	JG	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
107	LI	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
109	ER	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
109	AX	501	GDP	C3'-C2'-C1'	3.15	105.71	100.98
107	WE	501	GTP	PA-O3A-PB	-3.15	122.03	132.83
107	FS	501	GTP	PB-O3B-PG	-3.14	122.03	132.83
107	II	501	GTP	PA-O3A-PB	-3.14	122.04	132.83
107	EM	501	GTP	PA-O3A-PB	-3.14	122.04	132.83
109	IT	501	GDP	C3'-C2'-C1'	3.14	105.71	100.98
107	QU	501	GTP	C3'-C2'-C1'	3.14	105.71	100.98
109	PP	501	GDP	PA-O3A-PB	-3.14	122.05	132.83
109	NV	501	GDP	C3'-C2'-C1'	3.14	105.71	100.98
107	HU	501	GTP	C5-C6-N1	3.14	119.50	113.95
109	SF	501	GDP	C3'-C2'-C1'	3.14	105.71	100.98
109	UZ	501	GDP	C3'-C2'-C1'	3.14	105.70	100.98
107	SR	502	GTP	PB-O3B-PG	-3.14	122.06	132.83
107	DY	501	GTP	C3'-C2'-C1'	3.14	105.70	100.98
109	SH	501	GDP	C3'-C2'-C1'	3.14	105.70	100.98
107	SO	501	GTP	PA-O3A-PB	-3.14	122.07	132.83
109	BP	501	GDP	C3'-C2'-C1'	3.13	105.70	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	NH	501	GDP	C3'-C2'-C1'	3.13	105.70	100.98
109	HB	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
109	KD	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
109	VH	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
107	WA	501	GTP	C8-N7-C5	3.13	108.95	102.99
107	ND	502	GTP	C5-C6-N1	3.13	119.48	113.95
107	KC	501	GTP	PA-O3A-PB	-3.13	122.09	132.83
107	WM	501	GTP	C8-N7-C5	3.13	108.95	102.99
109	AV	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
109	AR	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
109	CN	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
107	HN	502	GTP	PA-O3A-PB	-3.12	122.11	132.83
107	WW	501	GTP	C8-N7-C5	3.12	108.94	102.99
107	PK	501	GTP	PA-O3A-PB	-3.12	122.12	132.83
109	BJ	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
107	WS	501	GTP	C8-N7-C5	3.12	108.94	102.99
107	PI	501	GTP	C3'-C2'-C1'	3.12	105.68	100.98
107	IK	501	GTP	PA-O3A-PB	-3.12	122.12	132.83
109	FV	501	GDP	C3'-C2'-C1'	3.12	105.67	100.98
107	WI	501	GTP	C8-N7-C5	3.12	108.93	102.99
109	HJ	501	GDP	C3'-C2'-C1'	3.12	105.67	100.98
107	WG	501	GTP	C8-N7-C5	3.12	108.93	102.99
109	NR	501	GDP	C3'-C2'-C1'	3.12	105.67	100.98
107	PN	502	GTP	PA-O3A-PB	-3.12	122.14	132.83
107	CW	501	GTP	PA-O3A-PB	-3.11	122.14	132.83
107	WC	501	GTP	C8-N7-C5	3.11	108.92	102.99
109	WD	501	GDP	C3'-C2'-C1'	3.11	105.67	100.98
107	VY	501	GTP	C8-N7-C5	3.11	108.92	102.99
107	FN	502	GTP	PA-O3A-PB	-3.11	122.14	132.83
109	OX	501	GDP	C3'-C2'-C1'	3.11	105.67	100.98
107	OU	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
109	MR	501	GDP	C3'-C2'-C1'	3.11	105.66	100.98
107	CM	501	GTP	PA-O3A-PB	-3.11	122.15	132.83
109	BX	501	GDP	C3'-C2'-C1'	3.11	105.66	100.98
109	VN	501	GDP	C3'-C2'-C1'	3.11	105.66	100.98
107	AG	501	GTP	C8-N7-C5	3.11	108.92	102.99
107	DO	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
107	DU	501	GTP	C8-N7-C5	3.11	108.91	102.99
107	DI	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
107	BM	501	GTP	PA-O3A-PB	-3.11	122.16	132.83
107	FY	501	GTP	C8-N7-C5	3.11	108.91	102.99
109	KT	501	GDP	C3'-C2'-C1'	3.11	105.66	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	KV	501	GDP	C3'-C2'-C1'	3.11	105.65	100.98
109	OV	501	GDP	C3'-C2'-C1'	3.11	105.65	100.98
109	WV	501	GDP	C3'-C2'-C1'	3.11	105.65	100.98
109	CF	501	GDP	C3'-C2'-C1'	3.11	105.65	100.98
107	BI	501	GTP	C8-N7-C5	3.11	108.91	102.99
107	OM	501	GTP	C3'-C2'-C1'	3.10	105.65	100.98
109	GT	501	GDP	C3'-C2'-C1'	3.10	105.65	100.98
107	KN	502	GTP	PA-O3A-PB	-3.10	122.17	132.83
107	NW	501	GTP	C3'-C2'-C1'	3.10	105.65	100.98
107	OS	501	GTP	C3'-C2'-C1'	3.10	105.65	100.98
107	WU	501	GTP	C8-N7-C5	3.10	108.90	102.99
109	UF	501	GDP	C3'-C2'-C1'	3.10	105.65	100.98
107	GE	501	GTP	C3'-C2'-C1'	3.10	105.64	100.98
107	AC	501	GTP	PB-O3B-PG	-3.10	122.19	132.83
109	OR	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
109	VF	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
109	UP	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
107	WI	501	GTP	PA-O3A-PB	-3.10	122.20	132.83
109	EV	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
107	GR	502	GTP	PB-O3B-PG	-3.10	122.20	132.83
107	DW	501	GTP	C3'-C2'-C1'	3.10	105.64	100.98
109	HR	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
107	TB	502	GTP	C8-N7-C5	3.10	108.89	102.99
107	OK	501	GTP	C3'-C2'-C1'	3.09	105.64	100.98
107	DG	501	GTP	C8-N7-C5	3.09	108.88	102.99
107	AO	501	GTP	PB-O3B-PG	-3.09	122.21	132.83
107	JU	501	GTP	C3'-C2'-C1'	3.09	105.64	100.98
107	QC	501	GTP	C3'-C2'-C1'	3.09	105.64	100.98
107	KK	501	GTP	PA-O3A-PB	-3.09	122.21	132.83
107	EK	501	GTP	C3'-C2'-C1'	3.09	105.63	100.98
107	JY	501	GTP	C3'-C2'-C1'	3.09	105.63	100.98
107	UM	501	GTP	C2-N1-C6	-3.09	119.40	125.10
107	NK	501	GTP	PA-O3A-PB	-3.09	122.22	132.83
107	VK	501	GTP	C8-N7-C5	3.09	108.88	102.99
107	FQ	501	GTP	C8-N7-C5	3.09	108.88	102.99
107	KC	501	GTP	PB-O3B-PG	-3.09	122.22	132.83
109	GJ	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98
107	GU	501	GTP	PA-O3A-PB	-3.09	122.22	132.83
107	UQ	501	GTP	PA-O3A-PB	-3.09	122.22	132.83
107	HI	501	GTP	C8-N7-C5	3.09	108.88	102.99
107	LC	501	GTP	C8-N7-C5	3.09	108.88	102.99
109	PH	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	NQ	501	GTP	C3'-C2'-C1'	3.09	105.63	100.98
107	VI	501	GTP	C8-N7-C5	3.09	108.87	102.99
109	QJ	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98
107	BE	501	GTP	PA-O3A-PB	-3.09	122.23	132.83
107	NK	501	GTP	C5-C6-N1	3.09	119.40	113.95
107	DE	501	GTP	C8-N7-C5	3.08	108.87	102.99
107	LM	501	GTP	PA-O3A-PB	-3.08	122.25	132.83
107	DS	501	GTP	C8-N7-C5	3.08	108.86	102.99
107	CO	501	GTP	C8-N7-C5	3.08	108.86	102.99
107	WU	501	GTP	PA-O3A-PB	-3.08	122.26	132.83
107	EU	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
107	SU	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
107	HY	501	GTP	C8-N7-C5	3.08	108.86	102.99
107	CS	501	GTP	C8-N7-C5	3.08	108.86	102.99
107	KU	501	GTP	PA-O3A-PB	-3.08	122.26	132.83
109	VX	501	GDP	C3'-C2'-C1'	3.08	105.61	100.98
107	PQ	501	GTP	C8-N7-C5	3.08	108.85	102.99
109	JX	501	GDP	C3'-C2'-C1'	3.08	105.61	100.98
107	AZ	501	GTP	PB-O3B-PG	-3.08	122.27	132.83
107	AW	501	GTP	C8-N7-C5	3.08	108.85	102.99
109	HF	501	GDP	C3'-C2'-C1'	3.08	105.61	100.98
107	AQ	501	GTP	PB-O3B-PG	-3.08	122.27	132.83
107	GG	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
107	BM	501	GTP	C8-N7-C5	3.08	108.85	102.99
107	OU	501	GTP	C8-N7-C5	3.08	108.85	102.99
107	VQ	501	GTP	C8-N7-C5	3.08	108.85	102.99
107	WE	501	GTP	C8-N7-C5	3.07	108.85	102.99
107	JY	501	GTP	C2-N1-C6	-3.07	119.44	125.10
107	FG	501	GTP	C8-N7-C5	3.07	108.85	102.99
109	HT	501	GDP	C3'-C2'-C1'	3.07	105.61	100.98
107	PK	501	GTP	C8-N7-C5	3.07	108.84	102.99
109	MV	501	GDP	C3'-C2'-C1'	3.07	105.61	100.98
109	ON	501	GDP	C3'-C2'-C1'	3.07	105.61	100.98
107	DQ	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
107	IC	501	GTP	C8-N7-C5	3.07	108.84	102.99
107	RK	501	GTP	C8-N7-C5	3.07	108.84	102.99
107	OC	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
107	AE	501	GTP	C8-N7-C5	3.07	108.84	102.99
107	ID	502	GTP	C3'-C2'-C1'	3.07	105.60	100.98
107	OY	501	GTP	PA-O3A-PB	-3.07	122.29	132.83
107	VG	501	GTP	C8-N7-C5	3.07	108.84	102.99
107	CG	501	GTP	C8-N7-C5	3.07	108.84	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	RC	501	GTP	C8-N7-C5	3.07	108.84	102.99
107	IQ	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
107	OW	501	GTP	PA-O3A-PB	-3.07	122.30	132.83
107	WQ	501	GTP	C8-N7-C5	3.07	108.83	102.99
107	IU	501	GTP	C8-N7-C5	3.07	108.83	102.99
107	PN	502	GTP	C8-N7-C5	3.07	108.83	102.99
107	PG	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
109	WF	501	GDP	C3'-C2'-C1'	3.07	105.60	100.98
109	OD	501	GDP	C3'-C2'-C1'	3.07	105.59	100.98
107	SO	501	GTP	C3'-C2'-C1'	3.07	105.59	100.98
107	HK	501	GTP	PB-O3B-PG	-3.07	122.31	132.83
107	AC	501	GTP	C8-N7-C5	3.07	108.83	102.99
109	JR	501	GDP	C3'-C2'-C1'	3.07	105.59	100.98
107	JU	501	GTP	PA-O3A-PB	-3.06	122.31	132.83
107	CM	501	GTP	C8-N7-C5	3.06	108.83	102.99
107	HA	501	GTP	C8-N7-C5	3.06	108.83	102.99
107	US	501	GTP	C3'-C2'-C1'	3.06	105.59	100.98
109	GX	501	GDP	C3'-C2'-C1'	3.06	105.59	100.98
107	DS	501	GTP	PA-O3A-PB	-3.06	122.31	132.83
107	AI	501	GTP	C8-N7-C5	3.06	108.83	102.99
107	BK	501	GTP	C8-N7-C5	3.06	108.83	102.99
107	MY	501	GTP	C8-N7-C5	3.06	108.83	102.99
109	WX	501	GDP	C3'-C2'-C1'	3.06	105.59	100.98
107	FU	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	MC	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	TK	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	WO	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	KE	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	OA	501	GTP	C8-N7-C5	3.06	108.82	102.99
107	RF	502	GTP	C8-N7-C5	3.06	108.82	102.99
109	TP	501	GDP	PA-O3A-PB	-3.06	122.33	132.83
107	AQ	501	GTP	C8-N7-C5	3.06	108.81	102.99
107	BE	501	GTP	C8-N7-C5	3.06	108.81	102.99
107	VW	501	GTP	C2-N1-C6	-3.06	119.47	125.10
107	IO	501	GTP	C8-N7-C5	3.06	108.81	102.99
107	UY	501	GTP	C8-N7-C5	3.06	108.81	102.99
109	FZ	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
107	TN	502	GTP	C8-N7-C5	3.06	108.81	102.99
107	UM	501	GTP	C8-N7-C5	3.06	108.81	102.99
107	JD	502	GTP	C3'-C2'-C1'	3.06	105.58	100.98
109	HX	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
109	WT	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	AY	501	GTP	C8-N7-C5	3.06	108.81	102.99
107	CI	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	MK	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	PM	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	FS	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	OG	501	GTP	C3'-C2'-C1'	3.05	105.58	100.98
109	NT	501	GDP	C3'-C2'-C1'	3.05	105.58	100.98
107	IQ	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	PA	501	GTP	C8-N7-C5	3.05	108.81	102.99
109	GV	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
107	FN	502	GTP	C8-N7-C5	3.05	108.81	102.99
107	VM	501	GTP	C8-N7-C5	3.05	108.81	102.99
107	KY	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	IG	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	TG	501	GTP	PA-O3A-PB	-3.05	122.36	132.83
107	AU	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	RY	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	FC	501	GTP	PB-O3B-PG	-3.05	122.36	132.83
107	ES	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
107	LG	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
107	AM	501	GTP	C8-N7-C5	3.05	108.80	102.99
109	IL	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
107	NG	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	TG	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	UC	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
109	AL	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
107	KQ	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	QC	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	WK	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	FK	501	GTP	PB-O3B-PG	-3.05	122.37	132.83
107	DO	501	GTP	C8-N7-C5	3.05	108.80	102.99
107	RS	501	GTP	C8-N7-C5	3.05	108.80	102.99
109	DN	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
109	JJ	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
109	NB	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
107	CE	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	DK	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	RN	502	GTP	C8-N7-C5	3.05	108.79	102.99
109	PN	501	GDP	C3'-C2'-C1'	3.05	105.56	100.98
107	AZ	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	IW	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	KF	502	GTP	C8-N7-C5	3.05	108.79	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	LO	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	BC	501	GTP	C8-N7-C5	3.05	108.79	102.99
107	HN	502	GTP	C8-N7-C5	3.04	108.79	102.99
107	IM	501	GTP	C8-N7-C5	3.04	108.79	102.99
107	UE	501	GTP	C8-N7-C5	3.04	108.79	102.99
107	II	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	EW	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	IY	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
109	UL	501	GDP	C3'-C2'-C1'	3.04	105.56	100.98
107	TI	501	GTP	C2-N1-C6	-3.04	119.49	125.10
109	JL	501	GDP	C3'-C2'-C1'	3.04	105.56	100.98
107	CW	501	GTP	C8-N7-C5	3.04	108.79	102.99
107	KK	501	GTP	C8-N7-C5	3.04	108.79	102.99
107	RI	501	GTP	C8-N7-C5	3.04	108.79	102.99
107	TN	502	GTP	PB-O3B-PG	-3.04	122.39	132.83
107	KS	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	OI	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	RT	502	GTP	C8-N7-C5	3.04	108.78	102.99
107	IU	501	GTP	PA-O3A-PB	-3.04	122.39	132.83
107	RE	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	AM	501	GTP	PB-O3B-PG	-3.04	122.39	132.83
107	CK	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	EG	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	BG	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	OW	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
107	BQ	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	IS	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	PY	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	VC	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	IC	501	GTP	PA-O3A-PB	-3.04	122.39	132.83
109	GF	501	GDP	PA-O3A-PB	-3.04	122.40	132.83
107	IM	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
107	IW	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
109	GH	501	GDP	C3'-C2'-C1'	3.04	105.55	100.98
109	HD	501	GDP	C3'-C2'-C1'	3.04	105.55	100.98
107	HC	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	KC	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	KI	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	PC	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	SX	502	GTP	C3'-C2'-C1'	3.04	105.55	100.98
107	JW	501	GTP	C8-N7-C5	3.04	108.78	102.99
107	JC	501	GTP	C8-N7-C5	3.04	108.78	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	TI	501	GTP	C8-N7-C5	3.04	108.77	102.99
107	LW	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
107	QG	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
107	CW	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
107	BY	501	GTP	C8-N7-C5	3.04	108.77	102.99
107	MQ	501	GTP	C8-N7-C5	3.04	108.77	102.99
107	FW	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	PI	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	MM	501	GTP	PA-O3A-PB	-3.03	122.42	132.83
107	FE	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	EU	501	GTP	C2-N1-C6	-3.03	119.51	125.10
107	QQ	501	GTP	C3'-C2'-C1'	3.03	105.55	100.98
109	DR	501	GDP	C3'-C2'-C1'	3.03	105.55	100.98
109	WR	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
107	FI	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	QI	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	TS	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	MM	501	GTP	C8-N7-C5	3.03	108.77	102.99
107	EC	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
107	CS	501	GTP	PA-O3A-PB	-3.03	122.42	132.83
107	NO	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
109	CH	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
107	BS	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	CU	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	HM	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	AO	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	JJ	502	GTP	C8-N7-C5	3.03	108.76	102.99
107	EI	501	GTP	C2-N1-C6	-3.03	119.52	125.10
107	JY	501	GTP	PA-O3A-PB	-3.03	122.43	132.83
107	SE	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
109	FH	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
109	IF	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
107	LC	501	GTP	C2-N1-C6	-3.03	119.52	125.10
107	GM	501	GTP	PA-O3A-PB	-3.03	122.43	132.83
107	EG	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	ID	502	GTP	C8-N7-C5	3.03	108.76	102.99
109	PJ	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
107	NK	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	VS	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	DY	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	MW	501	GTP	C8-N7-C5	3.03	108.76	102.99
107	NU	501	GTP	C8-N7-C5	3.03	108.76	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	QO	501	GTP	C3'-C2'-C1'	3.03	105.53	100.98
109	TX	501	GDP	C3'-C2'-C1'	3.03	105.53	100.98
107	EE	501	GTP	C3'-C2'-C1'	3.03	105.53	100.98
107	II	501	GTP	C8-N7-C5	3.03	108.75	102.99
107	EI	501	GTP	C3'-C2'-C1'	3.03	105.53	100.98
107	LQ	501	GTP	C8-N7-C5	3.03	108.75	102.99
107	ME	501	GTP	C8-N7-C5	3.03	108.75	102.99
107	TN	502	GTP	PA-O3A-PB	-3.02	122.45	132.83
107	EQ	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
107	JM	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	OE	501	GTP	C8-N7-C5	3.02	108.75	102.99
109	TX	501	GDP	PA-O3A-PB	-3.02	122.45	132.83
107	JD	502	GTP	C8-N7-C5	3.02	108.75	102.99
107	OK	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	QR	502	GTP	C8-N7-C5	3.02	108.75	102.99
109	DL	501	GDP	C3'-C2'-C1'	3.02	105.53	100.98
109	JV	501	GDP	C3'-C2'-C1'	3.02	105.53	100.98
109	LJ	501	GDP	C3'-C2'-C1'	3.02	105.53	100.98
107	PC	501	GTP	PA-O3A-PB	-3.02	122.45	132.83
107	BO	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	NQ	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	OY	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	RA	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	LY	501	GTP	C8-N7-C5	3.02	108.75	102.99
107	IU	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
107	SL	502	GTP	C8-N7-C5	3.02	108.74	102.99
107	PY	501	GTP	PB-O3B-PG	-3.02	122.46	132.83
107	RC	501	GTP	PA-O3A-PB	-3.02	122.46	132.83
107	MA	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	TE	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	CK	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	JG	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	KN	502	GTP	C8-N7-C5	3.02	108.74	102.99
107	MS	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	UI	501	GTP	C8-N7-C5	3.02	108.74	102.99
109	HL	501	GDP	C3'-C2'-C1'	3.02	105.52	100.98
107	RQ	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	FC	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	LU	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	OI	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	IK	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	IY	501	GTP	C8-N7-C5	3.02	108.74	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	PG	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	UG	501	GTP	C2-N1-C6	-3.02	119.54	125.10
107	GR	502	GTP	C8-N7-C5	3.02	108.74	102.99
107	JC	501	GTP	C2-N1-C6	-3.02	119.54	125.10
107	QK	501	GTP	C8-N7-C5	3.02	108.74	102.99
107	DO	501	GTP	C2-N1-C6	-3.02	119.54	125.10
107	MG	501	GTP	C8-N7-C5	3.02	108.73	102.99
107	EO	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
107	RW	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
107	BA	501	GTP	C8-N7-C5	3.02	108.73	102.99
107	PW	501	GTP	C8-N7-C5	3.02	108.73	102.99
107	FK	501	GTP	C8-N7-C5	3.01	108.73	102.99
107	NI	501	GTP	C8-N7-C5	3.01	108.73	102.99
109	PF	501	GDP	C3'-C2'-C1'	3.01	105.51	100.98
107	VN	502	GTP	C8-N7-C5	3.01	108.73	102.99
107	RF	502	GTP	C3'-C2'-C1'	3.01	105.51	100.98
107	DW	501	GTP	C8-N7-C5	3.01	108.73	102.99
107	JO	501	GTP	C8-N7-C5	3.01	108.73	102.99
107	JQ	501	GTP	C3'-C2'-C1'	3.01	105.51	100.98
109	MN	501	GDP	C3'-C2'-C1'	3.01	105.51	100.98
107	OG	501	GTP	C8-N7-C5	3.01	108.73	102.99
107	OS	501	GTP	C8-N7-C5	3.01	108.73	102.99
107	NC	501	GTP	C3'-C2'-C1'	3.01	105.51	100.98
109	WJ	501	GDP	C3'-C2'-C1'	3.01	105.51	100.98
107	SW	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	DE	501	GTP	PA-O3A-PB	-3.01	122.50	132.83
107	SQ	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	JW	501	GTP	C2-N1-C6	-3.01	119.56	125.10
107	LS	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	HK	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	KW	501	GTP	C8-N7-C5	3.01	108.72	102.99
109	EF	501	GDP	C3'-C2'-C1'	3.01	105.51	100.98
107	EI	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	NC	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	VE	501	GTP	C8-N7-C5	3.01	108.72	102.99
109	QB	501	GDP	C3'-C2'-C1'	3.01	105.51	100.98
107	EM	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	AS	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	PS	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	UC	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	DI	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	KU	501	GTP	C8-N7-C5	3.01	108.72	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	LK	501	GTP	C8-N7-C5	3.01	108.72	102.99
107	TQ	501	GTP	C8-N7-C5	3.01	108.72	102.99
109	QF	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
107	MQ	501	GTP	C2-N1-C6	-3.00	119.56	125.10
107	DM	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	GQ	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	QL	502	GTP	C8-N7-C5	3.00	108.71	102.99
107	JM	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
109	KR	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
107	NA	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	UU	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	PC	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
107	KM	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	RM	501	GTP	C8-N7-C5	3.00	108.71	102.99
107	LI	501	GTP	C8-N7-C5	3.00	108.71	102.99
109	GF	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
107	NS	501	GTP	C8-N7-C5	3.00	108.71	102.99
109	AN	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
109	JD	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
107	GI	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	DC	501	GTP	C2-N1-C6	-3.00	119.57	125.10
107	PT	502	GTP	C2-N1-C6	-3.00	119.57	125.10
107	QG	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	UO	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	EY	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	JJ	502	GTP	C2-N1-C6	-3.00	119.58	125.10
107	JU	501	GTP	C2-N1-C6	-3.00	119.58	125.10
107	CI	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	LY	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	QX	502	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	ND	502	GTP	C8-N7-C5	3.00	108.70	102.99
107	FI	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	SC	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	QW	501	GTP	C2-N1-C6	-3.00	119.58	125.10
107	UQ	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	IA	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
109	BD	501	GDP	C3'-C2'-C1'	3.00	105.49	100.98
107	CY	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
107	GI	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
109	QR	501	GDP	C3'-C2'-C1'	3.00	105.49	100.98
107	BW	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	KY	501	GTP	PA-O3A-PB	-3.00	122.55	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	PY	501	GTP	PA-O3A-PB	-3.00	122.55	132.83
107	DQ	501	GTP	C8-N7-C5	3.00	108.70	102.99
107	AY	501	GTP	PB-O3B-PG	-3.00	122.55	132.83
107	OC	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	PT	502	GTP	C8-N7-C5	2.99	108.69	102.99
107	SG	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	UG	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	MW	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
107	GU	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	SO	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	GW	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
107	LO	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
107	GG	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	GK	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	QX	502	GTP	C8-N7-C5	2.99	108.69	102.99
107	CY	501	GTP	C2-N1-C6	-2.99	119.59	125.10
109	GP	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
109	LB	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
107	JI	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	US	501	GTP	C8-N7-C5	2.99	108.69	102.99
107	UK	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
109	WH	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
107	IQ	501	GTP	PA-O3A-PB	-2.99	122.57	132.83
107	TS	501	GTP	PB-O3B-PG	-2.99	122.57	132.83
107	NG	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
107	LG	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	MT	502	GTP	C8-N7-C5	2.99	108.68	102.99
107	CQ	501	GTP	C2-N1-C6	-2.99	119.60	125.10
109	BB	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
109	VD	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
107	NW	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	RW	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	AK	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	TW	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	GK	501	GTP	C3'-C2'-C1'	2.99	105.47	100.98
107	LM	501	GTP	C8-N7-C5	2.99	108.68	102.99
107	JG	501	GTP	C2-N1-C6	-2.99	119.60	125.10
107	KQ	501	GTP	PB-O3B-PG	-2.99	122.58	132.83
107	JO	501	GTP	C3'-C2'-C1'	2.99	105.47	100.98
109	UT	501	GDP	C3'-C2'-C1'	2.99	105.47	100.98
107	JJ	502	GTP	PA-O3A-PB	-2.99	122.58	132.83
107	UK	501	GTP	C8-N7-C5	2.99	108.68	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	JO	501	GTP	C2-N1-C6	-2.99	119.60	125.10
107	PE	501	GTP	C3'-C2'-C1'	2.99	105.47	100.98
107	TS	501	GTP	PA-O3A-PB	-2.99	122.58	132.83
107	LW	501	GTP	C8-N7-C5	2.98	108.68	102.99
107	PE	501	GTP	C8-N7-C5	2.98	108.68	102.99
107	DM	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
107	TB	502	GTP	C2-N1-C6	-2.98	119.60	125.10
109	DJ	501	GDP	C3'-C2'-C1'	2.98	105.47	100.98
107	SI	501	GTP	C8-N7-C5	2.98	108.67	102.99
107	CI	501	GTP	C2-N1-C6	-2.98	119.61	125.10
107	UQ	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
107	CG	501	GTP	C2-N1-C6	-2.98	119.61	125.10
107	EG	501	GTP	C2-N1-C6	-2.98	119.61	125.10
107	GO	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
107	PA	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
107	CC	501	GTP	PA-O3A-PB	-2.98	122.60	132.83
107	DE	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
109	JN	501	GDP	C3'-C2'-C1'	2.98	105.47	100.98
107	KQ	501	GTP	C2-N1-C6	-2.98	119.61	125.10
107	SR	502	GTP	C8-N7-C5	2.98	108.67	102.99
109	IJ	501	GDP	C3'-C2'-C1'	2.98	105.46	100.98
107	JR	502	GTP	C8-N7-C5	2.98	108.67	102.99
107	JD	502	GTP	C2-N1-C6	-2.98	119.61	125.10
107	PK	501	GTP	PB-O3B-PG	-2.98	122.61	132.83
107	NL	502	GTP	C8-N7-C5	2.98	108.66	102.99
107	HA	501	GTP	PA-O3A-PB	-2.98	122.61	132.83
107	QA	501	GTP	C2-N1-C6	-2.98	119.61	125.10
107	HW	501	GTP	C8-N7-C5	2.98	108.66	102.99
107	OM	501	GTP	C8-N7-C5	2.98	108.66	102.99
107	VG	501	GTP	PA-O3A-PB	-2.98	122.61	132.83
107	SU	501	GTP	C8-N7-C5	2.98	108.66	102.99
107	PQ	501	GTP	C3'-C2'-C1'	2.98	105.46	100.98
109	GL	501	GDP	C3'-C2'-C1'	2.98	105.46	100.98
107	GX	502	GTP	C8-N7-C5	2.98	108.66	102.99
107	GX	502	GTP	C3'-C2'-C1'	2.98	105.46	100.98
107	EY	501	GTP	PA-O3A-PB	-2.98	122.62	132.83
107	KQ	501	GTP	PA-O3A-PB	-2.98	122.62	132.83
107	EO	501	GTP	C8-N7-C5	2.98	108.66	102.99
107	MN	502	GTP	C8-N7-C5	2.98	108.66	102.99
107	NO	501	GTP	C8-N7-C5	2.98	108.66	102.99
107	QD	502	GTP	C2-N1-C6	-2.97	119.62	125.10
107	TY	501	GTP	C8-N7-C5	2.97	108.66	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	RY	501	GTP	PA-O3A-PB	-2.97	122.62	132.83
107	GC	501	GTP	PA-O3A-PB	-2.97	122.62	132.83
107	VS	501	GTP	C2-N1-C6	-2.97	119.62	125.10
109	IH	501	GDP	C3'-C2'-C1'	2.97	105.46	100.98
107	VI	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
109	LZ	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
109	NL	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
107	TY	501	GTP	PB-O3B-PG	-2.97	122.62	132.83
109	FB	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
107	SK	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	CK	501	GTP	C2-N1-C6	-2.97	119.62	125.10
107	EQ	501	GTP	C2-N1-C6	-2.97	119.62	125.10
107	QO	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	QU	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	DC	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
107	MI	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	OO	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	QQ	501	GTP	C2-N1-C6	-2.97	119.63	125.10
107	CG	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
107	NU	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
107	GE	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	GW	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	EW	501	GTP	C2-N1-C6	-2.97	119.63	125.10
107	MY	501	GTP	C2-N1-C6	-2.97	119.63	125.10
107	CQ	501	GTP	C8-N7-C5	2.97	108.65	102.99
107	TU	501	GTP	C2-N1-C6	-2.97	119.63	125.10
107	QA	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
107	BU	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	HQ	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	QA	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	UW	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	UI	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
109	MF	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
107	QO	501	GTP	C2-N1-C6	-2.97	119.63	125.10
107	RN	502	GTP	C2-N1-C6	-2.97	119.63	125.10
107	FG	501	GTP	PA-O3A-PB	-2.97	122.64	132.83
107	HW	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
107	UW	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
109	AH	501	GDP	C3'-C2'-C1'	2.97	105.44	100.98
107	FM	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	GC	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	IO	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	AW	501	GTP	C2-N1-C6	-2.97	119.64	125.10
107	QW	501	GTP	C8-N7-C5	2.97	108.64	102.99
107	BG	501	GTP	C2-N1-C6	-2.97	119.64	125.10
107	EC	501	GTP	C8-N7-C5	2.96	108.64	102.99
107	EE	501	GTP	C8-N7-C5	2.96	108.64	102.99
107	SX	502	GTP	C8-N7-C5	2.96	108.64	102.99
107	MC	501	GTP	C2-N1-C6	-2.96	119.64	125.10
107	LE	501	GTP	C8-N7-C5	2.96	108.64	102.99
107	EE	501	GTP	PA-O3A-PB	-2.96	122.66	132.83
107	AG	501	GTP	C2-N1-C6	-2.96	119.64	125.10
107	NK	501	GTP	C2-N1-C6	-2.96	119.64	125.10
107	CY	501	GTP	C8-N7-C5	2.96	108.63	102.99
107	JQ	501	GTP	C8-N7-C5	2.96	108.63	102.99
109	OF	501	GDP	C3'-C2'-C1'	2.96	105.44	100.98
107	DQ	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	GM	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	LO	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	SE	501	GTP	C8-N7-C5	2.96	108.63	102.99
107	LE	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	VU	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	JU	501	GTP	C8-N7-C5	2.96	108.63	102.99
107	OW	501	GTP	C8-N7-C5	2.96	108.63	102.99
107	RM	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
107	MG	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	DG	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
109	OP	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
107	ES	501	GTP	C8-N7-C5	2.96	108.62	102.99
107	LS	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	RQ	501	GTP	PA-O3A-PB	-2.96	122.68	132.83
107	LK	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
107	DY	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	HI	501	GTP	C2-N1-C6	-2.96	119.65	125.10
109	AT	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
109	CD	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
109	IP	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
107	JQ	501	GTP	C2-N1-C6	-2.96	119.65	125.10
107	DG	501	GTP	PA-O3A-PB	-2.96	122.68	132.83
109	JP	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
107	EG	501	GTP	PA-O3A-PB	-2.96	122.68	132.83
107	FM	501	GTP	C2-N1-C6	-2.96	119.66	125.10
107	RM	501	GTP	C2-N1-C6	-2.96	119.66	125.10
107	FY	501	GTP	PB-O3B-PG	-2.95	122.69	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	EK	501	GTP	C8-N7-C5	2.95	108.62	102.99
107	JI	501	GTP	C3'-C2'-C1'	2.95	105.43	100.98
107	PN	502	GTP	C3'-C2'-C1'	2.95	105.43	100.98
107	EU	501	GTP	C8-N7-C5	2.95	108.62	102.99
107	PT	502	GTP	C3'-C2'-C1'	2.95	105.42	100.98
109	PB	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
107	CU	501	GTP	C2-N1-C6	-2.95	119.66	125.10
107	DK	501	GTP	C2-N1-C6	-2.95	119.66	125.10
107	KM	501	GTP	PA-O3A-PB	-2.95	122.69	132.83
107	LM	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
107	SC	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
107	EQ	501	GTP	C8-N7-C5	2.95	108.61	102.99
107	QD	502	GTP	C8-N7-C5	2.95	108.61	102.99
107	IA	501	GTP	C8-N7-C5	2.95	108.61	102.99
107	HU	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	QG	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	TQ	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	KY	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	VN	502	GTP	C3'-C2'-C1'	2.95	105.42	100.98
107	CC	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	ES	501	GTP	C2-N1-C6	-2.95	119.67	125.10
107	SL	502	GTP	C3'-C2'-C1'	2.95	105.42	100.98
107	UK	501	GTP	PA-O3A-PB	-2.95	122.71	132.83
109	OB	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
107	VU	501	GTP	C8-N7-C5	2.95	108.61	102.99
107	WG	501	GTP	C2-N1-C6	-2.95	119.67	125.10
109	QX	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
107	JR	502	GTP	C2-N1-C6	-2.94	119.67	125.10
107	QI	501	GTP	C2-N1-C6	-2.94	119.67	125.10
107	QU	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	AC	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	DW	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	CS	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	WI	501	GTP	C2-N1-C6	-2.94	119.68	125.10
109	EJ	501	GDP	C3'-C2'-C1'	2.94	105.41	100.98
107	CE	501	GTP	PA-O3A-PB	-2.94	122.73	132.83
107	NU	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	RE	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	SU	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	UU	501	GTP	PA-O3A-PB	-2.94	122.73	132.83
107	MA	501	GTP	C2-N1-C6	-2.94	119.68	125.10
107	QC	501	GTP	C2-N1-C6	-2.94	119.69	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	MX	501	GDP	C3'-C2'-C1'	2.94	105.40	100.98
107	TM	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	OK	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	WO	501	GTP	C2-N1-C6	-2.94	119.69	125.10
109	ML	501	GDP	PA-O3A-PB	-2.94	122.75	132.83
107	VQ	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
107	CC	501	GTP	C8-N7-C5	2.94	108.58	102.99
109	DZ	501	GDP	C3'-C2'-C1'	2.94	105.40	100.98
107	EY	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	HU	501	GTP	C8-N7-C5	2.94	108.58	102.99
107	BI	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	EO	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	PI	501	GTP	C2-N1-C6	-2.94	119.69	125.10
107	FK	501	GTP	PA-O3A-PB	-2.93	122.75	132.83
107	CM	501	GTP	C2-N1-C6	-2.93	119.69	125.10
107	MM	501	GTP	C2-N1-C6	-2.93	119.69	125.10
107	OA	501	GTP	PA-O3A-PB	-2.93	122.76	132.83
107	RF	502	GTP	C2-N1-C6	-2.93	119.69	125.10
109	LR	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
107	IC	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	MS	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	JM	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	KM	501	GTP	C2-N1-C6	-2.93	119.70	125.10
109	QT	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
107	LW	501	GTP	PA-O3A-PB	-2.93	122.77	132.83
107	DG	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	RI	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	HS	501	GTP	C8-N7-C5	2.93	108.57	102.99
109	KJ	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
107	BO	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	VQ	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	WU	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	GO	501	GTP	C8-N7-C5	2.93	108.57	102.99
109	NF	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
107	AI	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	VE	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	NK	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
107	JC	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
107	IK	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	JI	501	GTP	C2-N1-C6	-2.93	119.70	125.10
107	VM	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
107	FU	501	GTP	PB-O3B-PG	-2.93	122.78	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	SI	501	GTP	PA-O3A-PB	-2.93	122.78	132.83
109	OH	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
107	IG	501	GTP	C2-N1-C6	-2.93	119.71	125.10
107	WM	501	GTP	C2-N1-C6	-2.93	119.71	125.10
107	TM	501	GTP	C8-N7-C5	2.93	108.57	102.99
107	KF	502	GTP	C2-N1-C6	-2.93	119.71	125.10
107	BE	501	GTP	C2-N1-C6	-2.93	119.71	125.10
107	EE	501	GTP	C2-N1-C6	-2.93	119.71	125.10
109	SJ	501	GDP	C3'-C2'-C1'	2.93	105.38	100.98
107	RY	501	GTP	PB-O3B-PG	-2.93	122.78	132.83
107	QQ	501	GTP	C8-N7-C5	2.93	108.56	102.99
107	DI	501	GTP	C2-N1-C6	-2.93	119.71	125.10
107	PQ	501	GTP	C2-N1-C6	-2.93	119.71	125.10
107	MG	501	GTP	C3'-C2'-C1'	2.93	105.38	100.98
109	DV	501	GDP	C3'-C2'-C1'	2.93	105.38	100.98
107	QL	502	GTP	C2-N1-C6	-2.93	119.71	125.10
107	VN	502	GTP	C2-N1-C6	-2.93	119.71	125.10
107	IU	501	GTP	C2-N1-C6	-2.92	119.71	125.10
107	LY	501	GTP	C2-N1-C6	-2.92	119.71	125.10
107	TU	501	GTP	C8-N7-C5	2.92	108.56	102.99
107	BQ	501	GTP	C2-N1-C6	-2.92	119.71	125.10
107	RS	501	GTP	C2-N1-C6	-2.92	119.71	125.10
107	UE	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
109	EN	501	GDP	C3'-C2'-C1'	2.92	105.38	100.98
109	MT	501	GDP	C3'-C2'-C1'	2.92	105.38	100.98
107	MK	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	MT	502	GTP	C3'-C2'-C1'	2.92	105.38	100.98
107	AM	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	BS	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	LG	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	GU	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	LK	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	AE	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	IO	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	HF	502	GTP	C8-N7-C5	2.92	108.55	102.99
107	EM	501	GTP	C2-N1-C6	-2.92	119.72	125.10
109	PL	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
109	QD	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
107	EK	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	KU	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	TY	501	GTP	C2-N1-C6	-2.92	119.72	125.10
107	QD	502	GTP	C3'-C2'-C1'	2.92	105.37	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	FT	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
107	HE	501	GTP	C2-N1-C6	-2.92	119.73	125.10
107	NG	501	GTP	C2-N1-C6	-2.92	119.73	125.10
107	RK	501	GTP	C2-N1-C6	-2.92	119.73	125.10
109	QH	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
107	II	501	GTP	C2-N1-C6	-2.92	119.73	125.10
107	DC	501	GTP	C8-N7-C5	2.91	108.54	102.99
107	AO	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	IY	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	OY	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	PS	501	GTP	PA-O3A-PB	-2.91	122.83	132.83
107	QL	502	GTP	C3'-C2'-C1'	2.91	105.37	100.98
109	VL	501	GDP	C3'-C2'-C1'	2.91	105.36	100.98
107	CO	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	IK	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
107	FU	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	UO	501	GTP	C2-N1-C6	-2.91	119.73	125.10
107	GM	501	GTP	C8-N7-C5	2.91	108.54	102.99
107	KK	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	BM	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
107	MI	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
109	BL	501	GDP	C3'-C2'-C1'	2.91	105.36	100.98
109	GZ	501	GDP	C3'-C2'-C1'	2.91	105.36	100.98
107	HE	501	GTP	C8-N7-C5	2.91	108.54	102.99
109	PD	501	GDP	C3'-C2'-C1'	2.91	105.36	100.98
107	FY	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	CC	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
107	SO	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	QD	502	GTP	PA-O3A-PB	-2.91	122.84	132.83
107	WA	501	GTP	PA-O3A-PB	-2.91	122.84	132.83
107	EW	501	GTP	C8-N7-C5	2.91	108.53	102.99
107	BK	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	IW	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	EC	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	HF	502	GTP	C2-N1-C6	-2.91	119.74	125.10
107	HK	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	KN	502	GTP	C2-N1-C6	-2.91	119.74	125.10
107	WK	501	GTP	C2-N1-C6	-2.91	119.74	125.10
107	CU	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
107	KE	501	GTP	C2-N1-C6	-2.91	119.74	125.10
109	FP	501	GDP	C3'-C2'-C1'	2.91	105.36	100.98
107	UY	501	GTP	C2-N1-C6	-2.91	119.74	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	KW	501	GTP	C2-N1-C6	-2.91	119.75	125.10
107	VC	501	GTP	C2-N1-C6	-2.91	119.75	125.10
107	LW	501	GTP	C2-N1-C6	-2.91	119.75	125.10
107	NI	501	GTP	C3'-C2'-C1'	2.91	105.35	100.98
107	OQ	501	GTP	C8-N7-C5	2.90	108.52	102.99
107	FW	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
107	BM	501	GTP	C2-N1-C6	-2.90	119.75	125.10
107	NS	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
107	PK	501	GTP	C2-N1-C6	-2.90	119.75	125.10
107	BW	501	GTP	C2-N1-C6	-2.90	119.75	125.10
107	TE	501	GTP	PB-O3B-PG	-2.90	122.87	132.83
107	HC	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
107	IS	501	GTP	C2-N1-C6	-2.90	119.75	125.10
107	OQ	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
107	BA	501	GTP	C2-N1-C6	-2.90	119.75	125.10
107	HN	502	GTP	C2-N1-C6	-2.90	119.75	125.10
107	OA	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
109	RX	501	GDP	C3'-C2'-C1'	2.90	105.35	100.98
107	RY	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	SI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	LQ	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	PN	502	GTP	C2-N1-C6	-2.90	119.76	125.10
107	WA	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	HM	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
109	NJ	501	GDP	C3'-C2'-C1'	2.90	105.34	100.98
107	DU	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	MN	502	GTP	C2-N1-C6	-2.90	119.76	125.10
107	QX	502	GTP	C2-N1-C6	-2.90	119.76	125.10
107	LC	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
107	OA	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	UI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	UC	501	GTP	PA-O3A-PB	-2.90	122.88	132.83
107	VI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	SQ	501	GTP	PA-O3A-PB	-2.90	122.88	132.83
107	MN	502	GTP	C3'-C2'-C1'	2.90	105.34	100.98
107	WW	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	GG	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	PW	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	WQ	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	PG	501	GTP	C2-N1-C6	-2.90	119.76	125.10
107	JR	502	GTP	C3'-C2'-C1'	2.90	105.34	100.98
107	LQ	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	NI	501	GTP	PA-O3A-PB	-2.90	122.89	132.83
107	WK	501	GTP	PA-O3A-PB	-2.90	122.89	132.83
107	SC	501	GTP	C2-N1-C6	-2.90	119.77	125.10
107	ND	502	GTP	C3'-C2'-C1'	2.90	105.34	100.98
107	PA	501	GTP	C2-N1-C6	-2.90	119.77	125.10
109	UX	501	GDP	C3'-C2'-C1'	2.90	105.34	100.98
107	DS	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	IM	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	WC	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	SG	501	GTP	C3'-C2'-C1'	2.89	105.34	100.98
107	LM	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	RQ	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	SU	501	GTP	PA-O3A-PB	-2.89	122.89	132.83
107	SW	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	HM	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	UU	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	RI	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
107	PE	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	VK	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	AW	501	GTP	PB-O3B-PG	-2.89	122.90	132.83
107	BC	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	RT	502	GTP	C2-N1-C6	-2.89	119.77	125.10
107	JW	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
107	MS	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
107	UG	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
107	KS	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	OE	501	GTP	C2-N1-C6	-2.89	119.77	125.10
107	CW	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	FE	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	US	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	EM	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
107	NA	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
109	JH	501	GDP	C3'-C2'-C1'	2.89	105.33	100.98
107	KC	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	MT	502	GTP	C2-N1-C6	-2.89	119.78	125.10
107	VG	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	EY	501	GTP	C8-N7-C5	2.89	108.49	102.99
107	NA	501	GTP	C2-N1-C6	-2.89	119.78	125.10
109	LV	501	GDP	C3'-C2'-C1'	2.89	105.33	100.98
107	LI	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	UW	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	VM	501	GTP	C2-N1-C6	-2.89	119.78	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	HS	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	OS	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	UY	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
107	CE	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	DM	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	OG	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	PM	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	WS	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	JC	501	GTP	PA-O3A-PB	-2.89	122.92	132.83
107	OI	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	OM	501	GTP	C2-N1-C6	-2.89	119.78	125.10
107	JJ	502	GTP	C3'-C2'-C1'	2.88	105.32	100.98
107	MM	501	GTP	C3'-C2'-C1'	2.88	105.32	100.98
107	GR	502	GTP	C2-N1-C6	-2.88	119.79	125.10
107	PC	501	GTP	C2-N1-C6	-2.88	119.79	125.10
107	GI	501	GTP	C2-N1-C6	-2.88	119.79	125.10
107	GW	501	GTP	C2-N1-C6	-2.88	119.79	125.10
107	IA	501	GTP	PA-O3A-PB	-2.88	122.94	132.83
107	NL	502	GTP	C2-N1-C6	-2.88	119.79	125.10
107	RC	501	GTP	C2-N1-C6	-2.88	119.79	125.10
109	IB	501	GDP	C3'-C2'-C1'	2.88	105.32	100.98
109	VP	501	GDP	C3'-C2'-C1'	2.88	105.32	100.98
107	AY	501	GTP	C2-N1-C6	-2.88	119.79	125.10
107	TG	501	GTP	C2-N1-C6	-2.88	119.79	125.10
109	DP	501	GDP	C3'-C2'-C1'	2.88	105.31	100.98
107	BO	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
107	BY	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	LU	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
109	TP	501	GDP	C3'-C2'-C1'	2.88	105.31	100.98
107	ID	502	GTP	C2-N1-C6	-2.88	119.80	125.10
107	PS	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	WE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	OW	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	PY	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	QK	501	GTP	C2-N1-C6	-2.88	119.80	125.10
109	FN	501	GDP	PA-O3A-PB	-2.88	122.95	132.83
107	DU	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
109	IN	501	GDP	C3'-C2'-C1'	2.88	105.31	100.98
107	DE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	QR	502	GTP	C3'-C2'-C1'	2.88	105.31	100.98
107	GE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	SK	501	GTP	C2-N1-C6	-2.88	119.80	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	UC	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	SG	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	HU	501	GTP	PA-O3A-PB	-2.88	122.96	132.83
107	UE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
107	MW	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	NI	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	NO	501	GTP	C2-N1-C6	-2.87	119.81	125.10
109	MP	501	GDP	C3'-C2'-C1'	2.87	105.31	100.98
107	FI	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	AS	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	NQ	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	GC	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	OY	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
107	TB	502	GTP	PB-O3B-PG	-2.87	122.97	132.83
107	RW	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	JY	501	GTP	C8-N7-C5	2.87	108.46	102.99
107	FK	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	ME	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	BU	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
107	HA	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	KI	501	GTP	C2-N1-C6	-2.87	119.81	125.10
107	SE	501	GTP	C2-N1-C6	-2.87	119.82	125.10
107	TK	501	GTP	C2-N1-C6	-2.87	119.82	125.10
107	FQ	501	GTP	C2-N1-C6	-2.87	119.82	125.10
109	EX	501	GDP	C3'-C2'-C1'	2.87	105.30	100.98
107	SL	502	GTP	C2-N1-C6	-2.87	119.82	125.10
107	NC	501	GTP	C2-N1-C6	-2.87	119.82	125.10
107	OC	501	GTP	C2-N1-C6	-2.87	119.82	125.10
107	MI	501	GTP	C2-N1-C6	-2.86	119.82	125.10
107	NW	501	GTP	C2-N1-C6	-2.86	119.82	125.10
109	MT	501	GDP	PA-O3A-PB	-2.86	123.00	132.83
107	BU	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	TE	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	QI	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
107	IQ	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	ME	501	GTP	PB-O3B-PG	-2.86	123.01	132.83
107	OO	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	QR	502	GTP	C2-N1-C6	-2.86	119.83	125.10
107	RA	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	LE	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
107	FS	501	GTP	C2-N1-C6	-2.86	119.83	125.10
107	TM	501	GTP	PA-O3A-PB	-2.86	123.01	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	PS	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
109	OL	501	GDP	C3'-C2'-C1'	2.86	105.28	100.98
107	GU	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
107	GO	501	GTP	C2-N1-C6	-2.86	119.84	125.10
107	HW	501	GTP	C2-N1-C6	-2.86	119.84	125.10
107	TU	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
107	RQ	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
107	GQ	501	GTP	C2-N1-C6	-2.85	119.84	125.10
107	GX	502	GTP	C2-N1-C6	-2.85	119.84	125.10
107	HC	501	GTP	C2-N1-C6	-2.85	119.84	125.10
107	HY	501	GTP	C2-N1-C6	-2.85	119.84	125.10
107	GK	501	GTP	PA-O3A-PB	-2.85	123.03	132.83
107	VW	501	GTP	C3'-C2'-C1'	2.85	105.28	100.98
109	IX	501	GDP	C3'-C2'-C1'	2.85	105.28	100.98
107	SR	502	GTP	C2-N1-C6	-2.85	119.84	125.10
107	MC	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
107	TS	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
107	LU	501	GTP	C2-N1-C6	-2.85	119.84	125.10
109	AD	501	GDP	C3'-C2'-C1'	2.85	105.27	100.98
107	AU	501	GTP	C2-N1-C6	-2.85	119.85	125.10
107	UK	501	GTP	C2-N1-C6	-2.85	119.85	125.10
107	FG	501	GTP	C2-N1-C6	-2.85	119.85	125.10
107	RA	501	GTP	PA-O3A-PB	-2.85	123.05	132.83
107	NS	501	GTP	C2-N1-C6	-2.85	119.85	125.10
107	UQ	501	GTP	C2-N1-C6	-2.85	119.85	125.10
109	DD	501	GDP	C3'-C2'-C1'	2.85	105.27	100.98
107	AK	501	GTP	C2-N1-C6	-2.85	119.85	125.10
109	ID	501	GDP	C3'-C2'-C1'	2.85	105.27	100.98
107	VG	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
107	MY	501	GTP	PB-O3B-PG	-2.85	123.06	132.83
109	IV	501	GDP	C3'-C2'-C1'	2.85	105.26	100.98
109	KH	501	GDP	C3'-C2'-C1'	2.85	105.26	100.98
107	TW	501	GTP	C2-N1-C6	-2.84	119.86	125.10
107	RA	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
107	CE	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
107	KN	502	GTP	C3'-C2'-C1'	2.84	105.25	100.98
107	RC	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
107	RT	502	GTP	C3'-C2'-C1'	2.84	105.25	100.98
107	AQ	501	GTP	C2-N1-C6	-2.84	119.87	125.10
107	AS	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
107	TN	502	GTP	C2-N1-C6	-2.84	119.87	125.10
107	UU	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	FW	501	GTP	C2-N1-C6	-2.83	119.88	125.10
107	UO	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
107	SX	502	GTP	C2-N1-C6	-2.83	119.88	125.10
107	TS	501	GTP	C2-N1-C6	-2.83	119.88	125.10
107	SQ	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
107	SQ	501	GTP	C2-N1-C6	-2.83	119.89	125.10
107	VY	501	GTP	C2-N1-C6	-2.83	119.89	125.10
109	KP	501	GDP	C3'-C2'-C1'	2.83	105.24	100.98
107	AG	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
109	KL	501	GDP	C3'-C2'-C1'	2.83	105.24	100.98
109	PP	501	GDP	C3'-C2'-C1'	2.83	105.24	100.98
107	AZ	501	GTP	C2-N1-C6	-2.83	119.89	125.10
107	PN	502	GTP	PB-O3B-PG	-2.83	123.12	132.83
107	AE	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
107	MQ	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
109	QP	501	GDP	C3'-C2'-C1'	2.83	105.23	100.98
109	SX	501	GDP	C3'-C2'-C1'	2.83	105.23	100.98
107	ND	502	GTP	C2-N1-C6	-2.83	119.89	125.10
109	RB	501	GDP	C3'-C2'-C1'	2.83	105.23	100.98
107	GK	501	GTP	C2-N1-C6	-2.82	119.90	125.10
109	ML	501	GDP	C3'-C2'-C1'	2.82	105.23	100.98
107	FC	501	GTP	C2-N1-C6	-2.82	119.90	125.10
109	AB	501	GDP	C3'-C2'-C1'	2.82	105.22	100.98
107	TE	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
107	QA	501	GTP	PA-O3A-PB	-2.82	123.16	132.83
107	HN	502	GTP	C3'-C2'-C1'	2.82	105.22	100.98
107	PM	501	GTP	C3'-C2'-C1'	2.81	105.22	100.98
109	DF	501	GDP	C3'-C2'-C1'	2.81	105.21	100.98
107	CS	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
109	SN	501	GDP	C3'-C2'-C1'	2.81	105.21	100.98
107	HI	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
107	BK	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
107	QK	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
107	JR	502	GTP	PA-O3A-PB	-2.81	123.19	132.83
107	CQ	501	GTP	C3'-C2'-C1'	2.81	105.20	100.98
107	FN	502	GTP	C2-N1-C6	-2.81	119.93	125.10
109	UD	501	GDP	C3'-C2'-C1'	2.81	105.20	100.98
107	TB	502	GTP	C3'-C2'-C1'	2.80	105.20	100.98
107	BQ	501	GTP	C3'-C2'-C1'	2.80	105.20	100.98
107	KF	502	GTP	C3'-C2'-C1'	2.80	105.20	100.98
107	RN	502	GTP	C3'-C2'-C1'	2.80	105.20	100.98
107	CY	501	GTP	PA-O3A-PB	-2.80	123.21	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	KW	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
107	OU	501	GTP	C2-N1-C6	-2.80	119.94	125.10
107	TQ	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
107	JW	501	GTP	PA-O3A-PB	-2.80	123.23	132.83
107	LS	501	GTP	PA-O3A-PB	-2.80	123.23	132.83
107	GR	502	GTP	C3'-C2'-C1'	2.79	105.19	100.98
107	SI	501	GTP	C3'-C2'-C1'	2.79	105.19	100.98
107	RE	501	GTP	C3'-C2'-C1'	2.79	105.18	100.98
109	WN	501	GDP	C3'-C2'-C1'	2.79	105.18	100.98
109	TZ	501	GDP	C3'-C2'-C1'	2.79	105.18	100.98
107	SW	501	GTP	PA-O3A-PB	-2.79	123.25	132.83
109	VZ	501	GDP	C3'-C2'-C1'	2.79	105.18	100.98
109	MD	501	GDP	C3'-C2'-C1'	2.78	105.17	100.98
107	FQ	501	GTP	PA-O3A-PB	-2.78	123.28	132.83
107	KQ	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98
109	SD	501	GDP	C3'-C2'-C1'	2.78	105.17	100.98
107	PT	502	GTP	O3G-PG-O3B	2.78	113.96	104.64
109	WB	501	GDP	C3'-C2'-C1'	2.78	105.16	100.98
107	VU	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
107	HF	502	GTP	C3'-C2'-C1'	2.78	105.16	100.98
107	KC	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
109	MZ	501	GDP	C3'-C2'-C1'	2.78	105.16	100.98
107	LK	501	GTP	PA-O3A-PB	-2.78	123.30	132.83
107	NL	502	GTP	C3'-C2'-C1'	2.77	105.15	100.98
107	MA	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
107	FC	501	GTP	PA-O3A-PB	-2.77	123.33	132.83
107	FG	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
109	MH	501	GDP	C3'-C2'-C1'	2.77	105.14	100.98
107	SK	501	GTP	C3'-C2'-C1'	2.76	105.14	100.98
107	FK	501	GTP	C3'-C2'-C1'	2.76	105.14	100.98
107	HU	501	GTP	C3'-C2'-C1'	2.76	105.14	100.98
109	QV	501	GDP	C3'-C2'-C1'	2.76	105.14	100.98
109	LF	501	GDP	C3'-C2'-C1'	2.76	105.14	100.98
109	FX	501	GDP	PA-O3A-PB	-2.76	123.35	132.83
107	KY	501	GTP	PB-O3B-PG	-2.76	123.35	132.83
107	GW	501	GTP	PA-O3A-PB	-2.76	123.35	132.83
107	BG	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
107	MY	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
109	TJ	501	GDP	PA-O3A-PB	-2.76	123.36	132.83
109	DH	501	GDP	C3'-C2'-C1'	2.76	105.13	100.98
109	RL	501	GDP	C3'-C2'-C1'	2.76	105.13	100.98
107	HQ	501	GTP	C2-N1-C6	-2.76	120.02	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	PG	501	GTP	PA-O3A-PB	-2.76	123.37	132.83
107	VC	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
109	TL	501	GDP	C3'-C2'-C1'	2.76	105.13	100.98
107	BW	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
107	BY	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
107	OQ	501	GTP	C2-N1-C6	-2.75	120.03	125.10
107	MK	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
107	FU	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
109	FN	501	GDP	C3'-C2'-C1'	2.75	105.12	100.98
107	NG	501	GTP	PA-O3A-PB	-2.75	123.39	132.83
107	NS	501	GTP	PA-O3A-PB	-2.75	123.39	132.83
107	IA	501	GTP	C2-N1-C6	-2.75	120.04	125.10
107	BC	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
107	SW	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
109	KX	501	GDP	C3'-C2'-C1'	2.74	105.10	100.98
107	BA	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
109	GN	501	GDP	C3'-C2'-C1'	2.73	105.09	100.98
107	HQ	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
107	WI	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
107	KK	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
107	OO	501	GTP	C3'-C2'-C1'	2.73	105.08	100.98
109	LX	501	GDP	C3'-C2'-C1'	2.73	105.08	100.98
107	GX	502	GTP	PA-O3A-PB	-2.73	123.47	132.83
109	FJ	501	GDP	C3'-C2'-C1'	2.73	105.08	100.98
107	JD	502	GTP	PB-O3B-PG	-2.72	123.48	132.83
109	LT	501	GDP	C3'-C2'-C1'	2.72	105.08	100.98
107	FS	501	GTP	C3'-C2'-C1'	2.72	105.07	100.98
107	WA	501	GTP	C3'-C2'-C1'	2.72	105.07	100.98
109	FR	501	GDP	C3'-C2'-C1'	2.71	105.06	100.98
109	DX	501	GDP	C3'-C2'-C1'	2.71	105.06	100.98
107	HE	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
107	RY	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
107	AI	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
107	FC	501	GTP	C3'-C2'-C1'	2.71	105.05	100.98
109	OJ	501	GDP	C3'-C2'-C1'	2.70	105.04	100.98
107	AK	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
107	TI	501	GTP	PA-O3A-PB	-2.70	123.58	132.83
107	TY	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
109	LD	501	GDP	C3'-C2'-C1'	2.69	105.03	100.98
107	TW	501	GTP	PA-O3A-PB	-2.69	123.59	132.83
107	WE	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
109	QN	501	GDP	C3'-C2'-C1'	2.69	105.03	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	MT	502	GTP	PB-O3B-PG	-2.69	123.61	132.83
107	TG	501	GTP	C3'-C2'-C1'	2.68	105.02	100.98
107	VS	501	GTP	C3'-C2'-C1'	2.68	105.01	100.98
109	BH	501	GDP	C3'-C2'-C1'	2.68	105.01	100.98
107	HM	501	GTP	PA-O3A-PB	-2.68	123.64	132.83
107	FI	501	GTP	PA-O3A-PB	-2.68	123.64	132.83
107	WO	501	GTP	C3'-C2'-C1'	2.68	105.01	100.98
107	PK	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
107	TI	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
107	HY	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
109	EH	501	GDP	C3'-C2'-C1'	2.67	105.00	100.98
107	WU	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
107	AU	501	GTP	C3'-C2'-C1'	2.67	104.99	100.98
107	SR	502	GTP	C3'-C2'-C1'	2.67	104.99	100.98
107	BE	501	GTP	C3'-C2'-C1'	2.66	104.99	100.98
107	JQ	501	GTP	PA-O3A-PB	-2.66	123.69	132.83
107	PY	501	GTP	C3'-C2'-C1'	2.66	104.99	100.98
107	KY	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	VY	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	WS	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	BS	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	KS	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	HC	501	GTP	PA-O3A-PB	-2.66	123.71	132.83
107	VM	501	GTP	PA-O3A-PB	-2.66	123.71	132.83
107	WQ	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
107	FE	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
107	HK	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
107	TM	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
107	TN	502	GTP	C3'-C2'-C1'	2.65	104.97	100.98
107	GE	501	GTP	PA-O3A-PB	-2.65	123.74	132.83
107	HS	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
107	CM	501	GTP	C3'-C2'-C1'	2.65	104.96	100.98
107	HK	501	GTP	PA-O3A-PB	-2.65	123.75	132.83
107	HA	501	GTP	C3'-C2'-C1'	2.64	104.96	100.98
107	VS	501	GTP	PA-O3A-PB	-2.64	123.75	132.83
107	TK	501	GTP	C3'-C2'-C1'	2.64	104.95	100.98
109	AF	501	GDP	C3'-C2'-C1'	2.63	104.94	100.98
107	HN	502	GTP	PB-O3B-PG	-2.63	123.80	132.83
107	KM	501	GTP	C3'-C2'-C1'	2.63	104.94	100.98
107	MI	501	GTP	PA-O3A-PB	-2.63	123.81	132.83
107	FQ	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
107	HQ	501	GTP	PA-O3A-PB	-2.61	123.85	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	TW	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
107	CO	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
107	QC	501	GTP	PA-O3A-PB	-2.61	123.88	132.83
107	DS	501	GTP	C3'-C2'-C1'	2.61	104.90	100.98
109	JZ	501	GDP	C3'-C2'-C1'	2.60	104.90	100.98
109	GR	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
107	NU	501	GTP	PA-O3A-PB	-2.60	123.91	132.83
107	KK	501	GTP	PB-O3B-PG	-2.60	123.91	132.83
107	RF	502	GTP	PB-O3B-PG	-2.60	123.92	132.83
107	JD	502	GTP	PA-O3A-PB	-2.59	123.92	132.83
107	BI	501	GTP	C3'-C2'-C1'	2.59	104.88	100.98
107	KU	501	GTP	C3'-C2'-C1'	2.59	104.88	100.98
107	FN	502	GTP	C3'-C2'-C1'	2.58	104.87	100.98
107	UE	501	GTP	PA-O3A-PB	-2.58	123.97	132.83
107	FM	501	GTP	O6-C6-C5	-2.58	119.34	124.37
107	GM	501	GTP	C3'-C2'-C1'	2.58	104.86	100.98
107	GQ	501	GTP	PA-O3A-PB	-2.58	123.98	132.83
107	RK	501	GTP	C3'-C2'-C1'	2.57	104.85	100.98
107	RK	501	GTP	PA-O3A-PB	-2.57	124.01	132.83
109	KZ	501	GDP	C3'-C2'-C1'	2.57	104.84	100.98
109	ER	501	GDP	C5-C6-N1	2.56	118.46	113.95
109	LL	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
107	VK	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
107	WK	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
109	FX	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
107	GI	501	GTP	PA-O3A-PB	-2.55	124.08	132.83
107	WC	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
107	AM	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
109	SL	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
107	AC	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
109	LH	501	GDP	C3'-C2'-C1'	2.54	104.80	100.98
107	ME	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
107	NQ	501	GTP	PA-O3A-PB	-2.53	124.15	132.83
107	WG	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
107	VK	501	GTP	PA-O3A-PB	-2.52	124.17	132.83
107	AQ	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
107	WW	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
107	AW	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
107	VQ	501	GTP	PA-O3A-PB	-2.51	124.20	132.83
107	KE	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
107	KF	502	GTP	PB-O3B-PG	-2.50	124.24	132.83
107	KI	501	GTP	C3'-C2'-C1'	2.50	104.74	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	QR	502	GTP	PB-O3B-PG	-2.50	124.26	132.83
107	GR	502	GTP	PA-O3A-PB	-2.49	124.27	132.83
107	TU	501	GTP	O6-C6-C5	-2.48	119.52	124.37
109	SP	501	GDP	C5-C6-N1	2.48	118.33	113.95
107	RK	501	GTP	PB-O3B-PG	-2.48	124.33	132.83
107	RM	501	GTP	PA-O3A-PB	-2.46	124.37	132.83
107	HF	502	GTP	PA-O3A-PB	-2.45	124.41	132.83
107	MA	501	GTP	PB-O3B-PG	-2.45	124.42	132.83
107	WM	501	GTP	C3'-C2'-C1'	2.44	104.66	100.98
109	LR	501	GDP	C5-C6-N1	2.44	118.27	113.95
109	VL	501	GDP	C5-C6-N1	2.43	118.25	113.95
109	QD	501	GDP	C8-N7-C5	2.43	107.62	102.99
107	FY	501	GTP	PA-O3A-PB	-2.43	124.48	132.83
109	SL	501	GDP	C8-N7-C5	2.43	107.61	102.99
109	KZ	501	GDP	C8-N7-C5	2.42	107.60	102.99
109	FJ	501	GDP	C5-C6-N1	2.42	118.23	113.95
107	CK	501	GTP	PA-O3A-PB	-2.42	124.52	132.83
107	RS	501	GTP	C3'-C2'-C1'	2.42	104.62	100.98
109	JZ	501	GDP	C8-N7-C5	2.42	107.60	102.99
109	QL	501	GDP	C3'-C2'-C1'	2.42	104.62	100.98
109	JB	501	GDP	C5-C6-N1	2.42	118.22	113.95
109	IB	501	GDP	C8-N7-C5	2.42	107.59	102.99
109	WR	501	GDP	C8-N7-C5	2.42	107.59	102.99
109	PD	501	GDP	C5-C6-N1	2.42	118.22	113.95
107	PT	502	GTP	PA-O3A-PB	-2.41	124.54	132.83
109	WN	501	GDP	C8-N7-C5	2.41	107.59	102.99
107	UG	501	GTP	O6-C6-C5	-2.41	119.66	124.37
109	CD	501	GDP	C5-C6-N1	2.41	118.20	113.95
109	VL	501	GDP	C8-N7-C5	2.41	107.57	102.99
107	AY	501	GTP	C3'-C2'-C1'	2.41	104.60	100.98
109	VD	501	GDP	C8-N7-C5	2.40	107.57	102.99
109	MP	501	GDP	C5-C6-N1	2.40	118.19	113.95
109	QV	501	GDP	C8-N7-C5	2.40	107.56	102.99
109	PX	501	GDP	C5-C6-N1	2.40	118.19	113.95
109	WH	501	GDP	C8-N7-C5	2.40	107.56	102.99
107	SG	501	GTP	PA-O3A-PB	-2.40	124.60	132.83
109	KR	501	GDP	C5-C6-N1	2.40	118.18	113.95
109	ID	501	GDP	C8-N7-C5	2.40	107.56	102.99
109	DV	501	GDP	C5-C6-N1	2.40	118.18	113.95
109	IT	501	GDP	C8-N7-C5	2.40	107.55	102.99
109	KX	501	GDP	C5-C6-N1	2.39	118.18	113.95
109	PD	501	GDP	C8-N7-C5	2.39	107.55	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	WB	501	GDP	C8-N7-C5	2.39	107.55	102.99
109	AF	501	GDP	C8-N7-C5	2.39	107.55	102.99
109	RX	501	GDP	C5-C6-N1	2.39	118.18	113.95
109	AH	501	GDP	C5-C6-N1	2.39	118.18	113.95
109	BL	501	GDP	C8-N7-C5	2.39	107.55	102.99
109	EB	501	GDP	C5-C6-N1	2.39	118.17	113.95
109	LZ	501	GDP	C8-N7-C5	2.39	107.54	102.99
109	MX	501	GDP	C5-C6-N1	2.39	118.17	113.95
109	SF	501	GDP	C5-C6-N1	2.39	118.17	113.95
109	IV	501	GDP	C8-N7-C5	2.39	107.54	102.99
109	MR	501	GDP	C5-C6-N1	2.39	118.17	113.95
109	QN	501	GDP	C8-N7-C5	2.39	107.54	102.99
109	SD	501	GDP	C5-C6-N1	2.39	118.17	113.95
109	PB	501	GDP	C8-N7-C5	2.39	107.54	102.99
109	WL	501	GDP	C8-N7-C5	2.39	107.53	102.99
109	AH	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	DH	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	IN	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	IP	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	IL	501	GDP	C8-N7-C5	2.38	107.53	102.99
107	SR	502	GTP	PA-O3A-PB	-2.38	124.65	132.83
109	QP	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	BH	501	GDP	C5-C6-N1	2.38	118.16	113.95
109	DF	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	IH	501	GDP	C8-N7-C5	2.38	107.53	102.99
109	PV	501	GDP	C5-C6-N1	2.38	118.16	113.95
107	EC	501	GTP	PA-O3A-PB	-2.38	124.66	132.83
109	IR	501	GDP	C8-N7-C5	2.38	107.53	102.99
107	RE	501	GTP	PA-O3A-PB	-2.38	124.66	132.83
109	KD	501	GDP	C5-C6-N1	2.38	118.15	113.95
109	BB	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	MH	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	QX	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	DJ	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	QL	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	QT	501	GDP	C8-N7-C5	2.38	107.52	102.99
107	FY	501	GTP	C3'-C2'-C1'	2.38	104.56	100.98
109	FB	501	GDP	C5-C6-N1	2.38	118.15	113.95
109	IF	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	QR	501	GDP	C8-N7-C5	2.38	107.52	102.99
109	FL	501	GDP	C5-C6-N1	2.38	118.15	113.95
109	BF	501	GDP	C5-C6-N1	2.38	118.15	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	FM	501	GTP	PA-O3A-PB	-2.37	124.68	132.83
109	DT	501	GDP	C8-N7-C5	2.37	107.51	102.99
107	UM	501	GTP	C3'-C2'-C1'	2.37	104.55	100.98
109	CD	501	GDP	C8-N7-C5	2.37	107.51	102.99
109	ON	501	GDP	C8-N7-C5	2.37	107.51	102.99
109	CV	501	GDP	C8-N7-C5	2.37	107.51	102.99
109	ML	501	GDP	C5-C6-N1	2.37	118.14	113.95
109	AD	501	GDP	C8-N7-C5	2.37	107.51	102.99
109	VR	501	GDP	C8-N7-C5	2.37	107.51	102.99
109	LH	501	GDP	C5-C6-N1	2.37	118.14	113.95
109	MT	501	GDP	C5-C6-N1	2.37	118.14	113.95
109	PP	501	GDP	C8-N7-C5	2.37	107.51	102.99
107	PW	501	GTP	PA-O3A-PB	-2.37	124.69	132.83
109	KN	501	GDP	C5-C6-N1	2.37	118.14	113.95
109	QH	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	WX	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	KV	501	GDP	C5-C6-N1	2.37	118.14	113.95
109	CF	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	HP	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	KT	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	EN	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	DD	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	VF	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	LD	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	AB	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	JB	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	FP	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	BP	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	KP	501	GDP	C5-C6-N1	2.37	118.13	113.95
109	QB	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	HH	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	JV	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	OH	501	GDP	C8-N7-C5	2.37	107.50	102.99
109	HR	501	GDP	C8-N7-C5	2.36	107.50	102.99
107	LE	501	GTP	O6-C6-C5	-2.36	119.75	124.37
109	UT	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	MF	501	GDP	C5-C6-N1	2.36	118.13	113.95
109	PT	501	GDP	C5-C6-N1	2.36	118.13	113.95
109	WV	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	HT	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	HL	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	UD	501	GDP	C8-N7-C5	2.36	107.49	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	VV	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	BD	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	SX	501	GDP	C5-C6-N1	2.36	118.12	113.95
107	AZ	501	GTP	C3'-C2'-C1'	2.36	104.53	100.98
109	RB	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	DX	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	CH	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	WD	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	KB	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	UL	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	JH	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	JX	501	GDP	C8-N7-C5	2.36	107.49	102.99
109	JZ	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	LH	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	JR	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	RF	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	DB	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	AP	501	GDP	C5-C6-N1	2.36	118.12	113.95
109	IX	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	HB	501	GDP	C5-C6-N1	2.36	118.11	113.95
109	LL	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	WJ	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	OX	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	PH	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	VN	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	NL	501	GDP	C5-C6-N1	2.36	118.11	113.95
109	HJ	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	CZ	501	GDP	C8-N7-C5	2.36	107.48	102.99
109	LT	501	GDP	C5-C6-N1	2.36	118.11	113.95
109	JL	501	GDP	C8-N7-C5	2.35	107.48	102.99
109	RH	501	GDP	C5-C6-N1	2.35	118.11	113.95
109	PF	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	VV	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	BX	501	GDP	C5-C6-N1	2.35	118.11	113.95
109	CN	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	MV	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	PT	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	UJ	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	ED	501	GDP	C5-C6-N1	2.35	118.11	113.95
109	VP	501	GDP	C5-C6-N1	2.35	118.11	113.95
109	CR	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	FN	501	GDP	C8-N7-C5	2.35	107.47	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	VN	501	GDP	C5-C6-N1	2.35	118.11	113.95
109	CL	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	VH	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	AF	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	QL	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	KL	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	NF	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	HT	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	RD	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	RR	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	JJ	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	QF	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	UB	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	AD	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	EP	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	ST	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	PJ	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	QD	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	BX	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	HD	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	OR	501	GDP	C8-N7-C5	2.35	107.47	102.99
109	BB	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	DP	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	MH	501	GDP	C5-C6-N1	2.35	118.10	113.95
107	PI	501	GTP	PA-O3A-PB	-2.35	124.77	132.83
109	BJ	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	OP	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	ET	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	JV	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	QR	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	LN	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	UP	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	AR	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	JD	501	GDP	C5-C6-N1	2.35	118.10	113.95
109	AJ	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	KH	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	PR	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	KF	501	GDP	C5-C6-N1	2.35	118.09	113.95
109	AX	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	AB	501	GDP	C5-C6-N1	2.35	118.09	113.95
109	CX	501	GDP	C8-N7-C5	2.35	107.46	102.99
109	CT	501	GDP	C8-N7-C5	2.34	107.46	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	KJ	501	GDP	C8-N7-C5	2.34	107.46	102.99
109	OB	501	GDP	C8-N7-C5	2.34	107.46	102.99
109	TB	501	GDP	C8-N7-C5	2.34	107.46	102.99
109	AV	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	LX	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	UF	501	GDP	C8-N7-C5	2.34	107.46	102.99
109	EX	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	GP	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	MJ	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	NT	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	JP	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	LV	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	UD	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	HF	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	TP	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	RN	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	TZ	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	FX	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	MD	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	RX	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	WR	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	AN	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	CB	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	MR	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	NB	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	UV	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	DD	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	TD	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	WB	501	GDP	C5-C6-N1	2.34	118.09	113.95
109	BP	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	PX	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	TX	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	FH	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	QP	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	AT	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	EF	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	LX	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	DT	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	BD	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	HZ	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	VX	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	VZ	501	GDP	C8-N7-C5	2.34	107.45	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	HS	501	GTP	PA-O3A-PB	-2.34	124.80	132.83
109	HV	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	NV	501	GDP	C8-N7-C5	2.34	107.45	102.99
109	AN	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	IN	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	MD	501	GDP	C5-C6-N1	2.34	118.08	113.95
107	VE	501	GTP	C3'-C2'-C1'	2.34	104.50	100.98
109	MJ	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	DX	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	FV	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	FZ	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	TR	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	FD	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	OF	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	VB	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	HN	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	NL	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	PN	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	DJ	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	CJ	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	EH	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	HR	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	OT	501	GDP	C5-C6-N1	2.34	118.08	113.95
109	AL	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	GX	501	GDP	C8-N7-C5	2.34	107.44	102.99
109	KJ	501	GDP	C5-C6-N1	2.33	118.08	113.95
109	SN	501	GDP	C5-C6-N1	2.33	118.08	113.95
109	WP	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	DT	501	GDP	C3'-C2'-C1'	2.33	104.49	100.98
109	LP	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	TB	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	DP	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	KB	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	TL	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	VT	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	LV	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	ML	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	NN	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	OL	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	AT	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	MV	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	NJ	501	GDP	C5-C6-N1	2.33	118.07	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	SB	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	DZ	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	EZ	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	IJ	501	GDP	C8-N7-C5	2.33	107.44	102.99
109	OB	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	RT	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	HB	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	MT	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	KH	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	PB	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	LB	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	VP	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	OR	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	DR	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	WF	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	BN	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	NH	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	ON	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	NR	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	OD	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	TF	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	HX	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	WX	501	GDP	C5-C6-N1	2.33	118.07	113.95
109	EJ	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	FL	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	UR	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	EL	501	GDP	C3'-C2'-C1'	2.33	104.48	100.98
109	BV	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	KL	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	RL	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	UX	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	GR	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	OT	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	EF	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	NJ	501	GDP	C8-N7-C5	2.33	107.43	102.99
109	DH	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	LD	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	WT	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	DF	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	MN	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	VF	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	FX	501	GDP	C8-N7-C5	2.33	107.42	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	OV	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	TJ	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	CJ	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	PL	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	DN	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	CP	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	GP	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	NB	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	OV	501	GDP	C5-C6-N1	2.33	118.06	113.95
107	UG	501	GTP	PA-O3A-PB	-2.33	124.84	132.83
109	LF	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	NH	501	GDP	C8-N7-C5	2.33	107.42	102.99
109	HF	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	IR	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	QT	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	HH	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	SH	501	GDP	C5-C6-N1	2.33	118.06	113.95
109	TP	501	GDP	C5-C6-N1	2.32	118.06	113.95
109	EB	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	LP	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	PV	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	BJ	501	GDP	C5-C6-N1	2.32	118.06	113.95
109	DB	501	GDP	C5-C6-N1	2.32	118.06	113.95
109	LF	501	GDP	C5-C6-N1	2.32	118.06	113.95
109	BH	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	GB	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	UX	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	UL	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	UN	501	GDP	C8-N7-C5	2.32	107.42	102.99
109	FR	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	BN	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	GT	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	JT	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	UH	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	EJ	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	GD	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	UT	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	WH	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	LN	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	NV	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	AP	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	NP	501	GDP	C8-N7-C5	2.32	107.41	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	RJ	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	AR	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	IP	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	MZ	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	NR	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	UH	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	NZ	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	NX	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	UJ	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	GN	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	HP	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	MZ	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	TT	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	VJ	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	IB	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	AV	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	KD	501	GDP	C8-N7-C5	2.32	107.41	102.99
109	AJ	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	TX	501	GDP	C5-C6-N1	2.32	118.05	113.95
109	MF	501	GDP	C8-N7-C5	2.32	107.40	102.99
109	OJ	501	GDP	C8-N7-C5	2.32	107.40	102.99
109	RB	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	SJ	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	TF	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	TL	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	FT	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	JJ	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	PP	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	FF	501	GDP	C8-N7-C5	2.32	107.40	102.99
109	PL	501	GDP	C8-N7-C5	2.32	107.40	102.99
109	NT	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	WN	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	OD	501	GDP	C5-C6-N1	2.32	118.04	113.95
109	BT	501	GDP	C8-N7-C5	2.31	107.40	102.99
109	JR	501	GDP	C8-N7-C5	2.31	107.40	102.99
109	NX	501	GDP	C8-N7-C5	2.31	107.40	102.99
109	HV	501	GDP	C5-C6-N1	2.31	118.04	113.95
109	OH	501	GDP	C5-C6-N1	2.31	118.04	113.95
109	LZ	501	GDP	C5-C6-N1	2.31	118.04	113.95
109	RP	501	GDP	C5-C6-N1	2.31	118.04	113.95
109	HX	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	OP	501	GDP	C5-C6-N1	2.31	118.03	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	GV	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	HJ	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	OX	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	EH	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	IT	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	TR	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	WV	501	GDP	C5-C6-N1	2.31	118.03	113.95
107	GM	501	GTP	O6-C6-C5	-2.31	119.86	124.37
109	GH	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	DR	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	EZ	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	OJ	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	VD	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	VT	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	VX	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	BR	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	TN	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	EL	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	RD	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	CH	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	FF	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	QH	501	GDP	C5-C6-N1	2.31	118.03	113.95
107	AO	501	GTP	C3'-C2'-C1'	2.31	104.45	100.98
109	UP	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	AX	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	GL	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	UB	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	CT	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	GN	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	WP	501	GDP	C5-C6-N1	2.31	118.03	113.95
109	GJ	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	RH	501	GDP	C8-N7-C5	2.31	107.39	102.99
109	BL	501	GDP	C5-C6-N1	2.31	118.03	113.95
107	TI	501	GTP	O6-C6-C5	-2.31	119.87	124.37
109	NZ	501	GDP	C5-C6-N1	2.31	118.02	113.95
109	BV	501	GDP	C8-N7-C5	2.31	107.38	102.99
109	SV	501	GDP	C8-N7-C5	2.31	107.38	102.99
107	UM	501	GTP	O6-C6-C5	-2.31	119.87	124.37
109	CB	501	GDP	C5-C6-N1	2.31	118.02	113.95
109	GZ	501	GDP	C5-C6-N1	2.31	118.02	113.95
109	JN	501	GDP	C5-C6-N1	2.31	118.02	113.95
109	LB	501	GDP	C5-C6-N1	2.31	118.02	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	RP	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	RT	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	PF	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	CV	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	SR	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	DV	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	HD	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	JX	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	KT	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	LJ	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	RN	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	WT	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	FT	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	LR	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	RV	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	BR	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	DL	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	HZ	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	GD	501	GDP	C8-N7-C5	2.30	107.38	102.99
109	LL	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	NP	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	KF	501	GDP	C8-N7-C5	2.30	107.37	102.99
109	MN	501	GDP	C8-N7-C5	2.30	107.37	102.99
109	OL	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	WD	501	GDP	C5-C6-N1	2.30	118.02	113.95
109	CR	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	JL	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	OF	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	AL	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	IF	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	JD	501	GDP	C8-N7-C5	2.30	107.37	102.99
109	HN	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	NF	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	MP	501	GDP	C8-N7-C5	2.30	107.37	102.99
107	MI	501	GTP	O6-C6-C5	-2.30	119.88	124.37
109	JN	501	GDP	C8-N7-C5	2.30	107.37	102.99
109	WF	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	FN	501	GDP	C5-C6-N1	2.30	118.01	113.95
109	VH	501	GDP	C5-C6-N1	2.30	118.00	113.95
109	BF	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	GZ	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	RF	501	GDP	C8-N7-C5	2.29	107.36	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	EV	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	PR	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	FJ	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	GX	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	JT	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	TH	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	JF	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	KV	501	GDP	C8-N7-C5	2.29	107.36	102.99
107	TM	501	GTP	O6-C6-C5	-2.29	119.89	124.37
109	TV	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	UN	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	WL	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	GF	501	GDP	C8-N7-C5	2.29	107.36	102.99
109	KX	501	GDP	C8-N7-C5	2.29	107.36	102.99
107	NL	502	GTP	O6-C6-C5	-2.29	119.90	124.37
109	TD	501	GDP	C8-N7-C5	2.29	107.35	102.99
109	GV	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	VR	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	BT	501	GDP	C5-C6-N1	2.29	118.00	113.95
109	TT	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	LP	501	GDP	C3'-C2'-C1'	2.29	104.42	100.98
109	EL	501	GDP	C8-N7-C5	2.29	107.35	102.99
109	DZ	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	GT	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	RV	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	ND	501	GDP	C5-C6-N1	2.29	117.99	113.95
107	GG	501	GTP	PA-O3A-PB	-2.29	124.98	132.83
109	CN	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	ID	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	IL	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	IV	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	UF	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	VJ	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	ND	501	GDP	C8-N7-C5	2.29	107.35	102.99
109	VB	501	GDP	C5-C6-N1	2.29	117.99	113.95
109	KN	501	GDP	C8-N7-C5	2.29	107.34	102.99
109	QX	501	GDP	C5-C6-N1	2.29	117.99	113.95
107	KM	501	GTP	O6-C6-C5	-2.28	119.91	124.37
109	GR	501	GDP	C5-C6-N1	2.28	117.99	113.95
109	CL	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	NN	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	PH	501	GDP	C5-C6-N1	2.28	117.98	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	UZ	501	GDP	C8-N7-C5	2.28	107.34	102.99
109	GB	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	KR	501	GDP	C8-N7-C5	2.28	107.34	102.99
109	DN	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	IH	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	RR	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	HL	501	GDP	C5-C6-N1	2.28	117.98	113.95
109	LT	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	QJ	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	SD	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	WJ	501	GDP	C5-C6-N1	2.28	117.97	113.95
109	EV	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	JP	501	GDP	C8-N7-C5	2.28	107.33	102.99
109	SV	501	GDP	C5-C6-N1	2.28	117.97	113.95
109	UV	501	GDP	C5-C6-N1	2.28	117.97	113.95
109	MX	501	GDP	C8-N7-C5	2.27	107.32	102.99
109	KP	501	GDP	C8-N7-C5	2.27	107.32	102.99
109	GJ	501	GDP	C5-C6-N1	2.27	117.97	113.95
109	CX	501	GDP	C5-C6-N1	2.27	117.97	113.95
109	CF	501	GDP	C5-C6-N1	2.27	117.97	113.95
109	UR	501	GDP	C5-C6-N1	2.27	117.96	113.95
107	RK	501	GTP	O6-C6-C5	-2.27	119.94	124.37
109	PN	501	GDP	C5-C6-N1	2.27	117.96	113.95
109	QV	501	GDP	C5-C6-N1	2.27	117.96	113.95
107	ME	501	GTP	PA-O3A-PB	-2.27	125.03	132.83
107	BC	501	GTP	O6-C6-C5	-2.27	119.94	124.37
109	JF	501	GDP	C5-C6-N1	2.27	117.96	113.95
109	GL	501	GDP	C8-N7-C5	2.27	107.31	102.99
109	QF	501	GDP	C5-C6-N1	2.27	117.96	113.95
109	ED	501	GDP	C8-N7-C5	2.27	107.31	102.99
109	TJ	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	DL	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	JH	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	KZ	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	GF	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	GH	501	GDP	C5-C6-N1	2.27	117.95	113.95
109	TN	501	GDP	C5-C6-N1	2.27	117.95	113.95
107	HE	501	GTP	O6-C6-C5	-2.26	119.95	124.37
109	CZ	501	GDP	C5-C6-N1	2.26	117.95	113.95
107	AO	501	GTP	O6-C6-C5	-2.26	119.95	124.37
107	TW	501	GTP	O6-C6-C5	-2.26	119.95	124.37
109	FB	501	GDP	C8-N7-C5	2.26	107.30	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	PJ	501	GDP	C5-C6-N1	2.26	117.94	113.95
109	FZ	501	GDP	C8-N7-C5	2.26	107.30	102.99
109	SB	501	GDP	C8-N7-C5	2.26	107.29	102.99
109	FV	501	GDP	C8-N7-C5	2.26	107.29	102.99
109	TH	501	GDP	C8-N7-C5	2.26	107.29	102.99
109	CP	501	GDP	C5-C6-N1	2.26	117.94	113.95
109	TZ	501	GDP	C5-C6-N1	2.26	117.94	113.95
109	EP	501	GDP	C8-N7-C5	2.26	107.29	102.99
109	FH	501	GDP	C8-N7-C5	2.25	107.28	102.99
109	QN	501	GDP	C5-C6-N1	2.25	117.93	113.95
107	SI	501	GTP	O6-C6-C5	-2.25	119.97	124.37
109	EN	501	GDP	C8-N7-C5	2.25	107.28	102.99
109	FR	501	GDP	C8-N7-C5	2.25	107.28	102.99
107	JQ	501	GTP	O6-C6-C5	-2.25	119.97	124.37
109	RL	501	GDP	C8-N7-C5	2.25	107.28	102.99
109	FD	501	GDP	C8-N7-C5	2.25	107.28	102.99
109	SN	501	GDP	C8-N7-C5	2.25	107.28	102.99
107	BO	501	GTP	O6-C6-C5	-2.25	119.98	124.37
109	TV	501	GDP	C5-C6-N1	2.25	117.92	113.95
109	UZ	501	GDP	C5-C6-N1	2.25	117.92	113.95
109	SX	501	GDP	C8-N7-C5	2.25	107.27	102.99
109	SR	501	GDP	C8-N7-C5	2.25	107.27	102.99
109	IX	501	GDP	C5-C6-N1	2.25	117.92	113.95
107	DC	501	GTP	O6-C6-C5	-2.25	119.98	124.37
109	QB	501	GDP	C5-C6-N1	2.25	117.92	113.95
109	QJ	501	GDP	C5-C6-N1	2.25	117.92	113.95
107	LC	501	GTP	O6-C6-C5	-2.25	119.99	124.37
107	SC	501	GTP	PA-O3A-PB	-2.24	125.13	132.83
107	AS	501	GTP	O6-C6-C5	-2.24	119.99	124.37
107	SE	501	GTP	O6-C6-C5	-2.24	119.99	124.37
109	ET	501	GDP	C8-N7-C5	2.24	107.26	102.99
107	SR	502	GTP	O6-C6-C5	-2.24	120.00	124.37
107	SR	502	GTP	O3G-PG-O3B	2.23	112.13	104.64
107	BG	501	GTP	O6-C6-C5	-2.23	120.01	124.37
109	FP	501	GDP	C8-N7-C5	2.23	107.24	102.99
107	KU	501	GTP	O6-C6-C5	-2.23	120.02	124.37
109	IJ	501	GDP	C5-C6-N1	2.23	117.89	113.95
109	RJ	501	GDP	C8-N7-C5	2.23	107.23	102.99
107	HI	501	GTP	O6-C6-C5	-2.23	120.03	124.37
109	SH	501	GDP	C8-N7-C5	2.23	107.23	102.99
109	SF	501	GDP	C8-N7-C5	2.22	107.22	102.99
107	SO	501	GTP	O6-C6-C5	-2.22	120.03	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	VS	501	GTP	O6-C6-C5	-2.22	120.03	124.37
109	SL	501	GDP	C5-C6-N1	2.22	117.88	113.95
107	EQ	501	GTP	O6-C6-C5	-2.22	120.03	124.37
107	OY	501	GTP	O6-C6-C5	-2.22	120.03	124.37
107	OG	501	GTP	O6-C6-C5	-2.22	120.04	124.37
109	ST	501	GDP	C8-N7-C5	2.22	107.22	102.99
109	MT	501	GDP	O3B-PB-O3A	2.22	112.08	104.64
109	SJ	501	GDP	C8-N7-C5	2.22	107.21	102.99
107	MN	502	GTP	PA-O3A-PB	-2.22	125.22	132.83
107	SQ	501	GTP	O6-C6-C5	-2.21	120.05	124.37
107	BU	501	GTP	O6-C6-C5	-2.21	120.05	124.37
107	HK	501	GTP	O6-C6-C5	-2.21	120.05	124.37
107	GO	501	GTP	O6-C6-C5	-2.21	120.05	124.37
107	UO	501	GTP	O6-C6-C5	-2.21	120.05	124.37
107	US	501	GTP	O6-C6-C5	-2.21	120.06	124.37
107	NG	501	GTP	O6-C6-C5	-2.21	120.06	124.37
107	GU	501	GTP	O6-C6-C5	-2.21	120.06	124.37
107	VE	501	GTP	PA-O3A-PB	-2.21	125.25	132.83
107	UC	501	GTP	O6-C6-C5	-2.21	120.06	124.37
107	LW	501	GTP	O6-C6-C5	-2.21	120.06	124.37
109	EX	501	GDP	C8-N7-C5	2.20	107.19	102.99
107	HE	501	GTP	PA-O3A-PB	-2.20	125.27	132.83
107	MG	501	GTP	O6-C6-C5	-2.20	120.07	124.37
107	OO	501	GTP	O6-C6-C5	-2.20	120.07	124.37
107	SU	501	GTP	O6-C6-C5	-2.20	120.07	124.37
109	SP	501	GDP	C8-N7-C5	2.20	107.18	102.99
107	MS	501	GTP	O6-C6-C5	-2.20	120.07	124.37
107	GE	501	GTP	O6-C6-C5	-2.20	120.08	124.37
107	LU	501	GTP	O6-C6-C5	-2.20	120.08	124.37
109	ER	501	GDP	C8-N7-C5	2.20	107.18	102.99
107	LI	501	GTP	O6-C6-C5	-2.20	120.08	124.37
107	VQ	501	GTP	O6-C6-C5	-2.20	120.08	124.37
107	HN	502	GTP	O6-C6-C5	-2.20	120.08	124.37
107	OC	501	GTP	O6-C6-C5	-2.19	120.08	124.37
107	NU	501	GTP	O6-C6-C5	-2.19	120.09	124.37
107	BK	501	GTP	O6-C6-C5	-2.19	120.09	124.37
107	SC	501	GTP	O6-C6-C5	-2.19	120.09	124.37
107	RT	502	GTP	PA-O3A-PB	-2.19	125.30	132.83
109	FL	501	GDP	O6-C6-C5	-2.19	120.09	124.37
109	LJ	501	GDP	C8-N7-C5	2.19	107.17	102.99
107	AM	501	GTP	O6-C6-C5	-2.19	120.09	124.37
107	GC	501	GTP	O6-C6-C5	-2.19	120.09	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	KN	502	GTP	O6-C6-C5	-2.19	120.10	124.37
107	KW	501	GTP	O6-C6-C5	-2.19	120.10	124.37
107	BE	501	GTP	O6-C6-C5	-2.19	120.10	124.37
107	NI	501	GTP	O6-C6-C5	-2.19	120.10	124.37
107	EY	501	GTP	O6-C6-C5	-2.19	120.10	124.37
107	NO	501	GTP	O6-C6-C5	-2.19	120.10	124.37
107	GQ	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	MW	501	GTP	PA-O3A-PB	-2.18	125.33	132.83
107	QR	502	GTP	O3G-PG-O3B	2.18	111.96	104.64
107	GK	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	OK	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	LS	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	SK	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	RM	501	GTP	O6-C6-C5	-2.18	120.11	124.37
107	OM	501	GTP	O6-C6-C5	-2.18	120.12	124.37
107	BA	501	GTP	O6-C6-C5	-2.18	120.12	124.37
107	BY	501	GTP	O6-C6-C5	-2.18	120.12	124.37
107	SW	501	GTP	O6-C6-C5	-2.18	120.12	124.37
107	MK	501	GTP	O6-C6-C5	-2.17	120.12	124.37
107	MY	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	EE	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	GI	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	GX	502	GTP	O6-C6-C5	-2.17	120.13	124.37
107	AK	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	HM	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	OW	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	EW	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	HU	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	AW	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	UI	501	GTP	O6-C6-C5	-2.17	120.13	124.37
107	KQ	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	AU	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	BW	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	LG	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	GG	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	KE	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	MQ	501	GTP	O6-C6-C5	-2.17	120.14	124.37
107	KF	502	GTP	O6-C6-C5	-2.17	120.14	124.37
107	ND	502	GTP	O3G-PG-O3B	2.16	111.89	104.64
107	LK	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	OS	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	AC	501	GTP	O6-C6-C5	-2.16	120.15	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	JU	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	VU	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	FC	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	NC	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	HW	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	NA	501	GTP	O6-C6-C5	-2.16	120.15	124.37
107	RC	501	GTP	O6-C6-C5	-2.16	120.15	124.37
109	VZ	501	GDP	C5-C6-N1	2.16	117.77	113.95
107	JC	501	GTP	O6-C6-C5	-2.16	120.16	124.37
107	UQ	501	GTP	O6-C6-C5	-2.16	120.16	124.37
107	EO	501	GTP	O6-C6-C5	-2.16	120.16	124.37
107	UW	501	GTP	O6-C6-C5	-2.16	120.16	124.37
107	AY	501	GTP	O6-C6-C5	-2.16	120.16	124.37
107	CQ	501	GTP	O6-C6-C5	-2.16	120.16	124.37
109	EZ	501	GDP	C3'-C2'-C1'	2.16	104.22	100.98
107	MN	502	GTP	O6-C6-C5	-2.15	120.16	124.37
107	MT	502	GTP	O6-C6-C5	-2.15	120.16	124.37
107	RT	502	GTP	O6-C6-C5	-2.15	120.16	124.37
109	ER	501	GDP	O6-C6-C5	-2.15	120.17	124.37
107	RW	501	GTP	O6-C6-C5	-2.15	120.17	124.37
107	HC	501	GTP	O6-C6-C5	-2.15	120.17	124.37
107	UU	501	GTP	O6-C6-C5	-2.15	120.17	124.37
107	LQ	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	SL	502	GTP	O6-C6-C5	-2.15	120.18	124.37
107	JR	502	GTP	O6-C6-C5	-2.15	120.18	124.37
107	PT	502	GTP	O6-C6-C5	-2.15	120.18	124.37
107	VN	502	GTP	O6-C6-C5	-2.15	120.18	124.37
107	FG	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	MC	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	SG	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	AG	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	AQ	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	GW	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	PS	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	JD	502	GTP	O6-C6-C5	-2.15	120.18	124.37
107	UK	501	GTP	O6-C6-C5	-2.15	120.18	124.37
107	TB	502	GTP	O6-C6-C5	-2.14	120.18	124.37
107	ES	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	OI	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	RQ	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	TS	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	JG	501	GTP	O6-C6-C5	-2.14	120.19	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	AZ	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	JJ	502	GTP	O6-C6-C5	-2.14	120.19	124.37
107	JM	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	FE	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	OE	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	TY	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	VC	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	KI	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	RS	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	RY	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	MW	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	FW	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	AI	501	GTP	O6-C6-C5	-2.14	120.19	124.37
107	EK	501	GTP	O6-C6-C5	-2.14	120.20	124.37
107	BI	501	GTP	O6-C6-C5	-2.14	120.20	124.37
107	ME	501	GTP	O6-C6-C5	-2.14	120.20	124.37
107	JO	501	GTP	O6-C6-C5	-2.14	120.20	124.37
107	PW	501	GTP	O6-C6-C5	-2.14	120.20	124.37
107	LO	501	GTP	O6-C6-C5	-2.13	120.20	124.37
107	FI	501	GTP	O6-C6-C5	-2.13	120.20	124.37
107	JI	501	GTP	O6-C6-C5	-2.13	120.20	124.37
107	NW	501	GTP	O6-C6-C5	-2.13	120.20	124.37
107	AE	501	GTP	O6-C6-C5	-2.13	120.20	124.37
107	RF	502	GTP	O6-C6-C5	-2.13	120.20	124.37
107	QW	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	TE	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	CG	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	GR	502	GTP	O6-C6-C5	-2.13	120.21	124.37
107	LY	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	PI	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	QQ	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	MA	501	GTP	O6-C6-C5	-2.13	120.21	124.37
107	KY	501	GTP	O6-C6-C5	-2.13	120.22	124.37
107	BQ	501	GTP	O6-C6-C5	-2.13	120.22	124.37
107	RE	501	GTP	O6-C6-C5	-2.13	120.22	124.37
107	SX	502	GTP	O6-C6-C5	-2.13	120.22	124.37
107	VK	501	GTP	O6-C6-C5	-2.13	120.22	124.37
107	NQ	501	GTP	O6-C6-C5	-2.13	120.22	124.37
107	FU	501	GTP	O6-C6-C5	-2.12	120.22	124.37
107	QK	501	GTP	O6-C6-C5	-2.12	120.22	124.37
107	EC	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	IO	501	GTP	O6-C6-C5	-2.12	120.23	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	VI	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	RA	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	QA	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	FN	502	GTP	O6-C6-C5	-2.12	120.23	124.37
107	KK	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	KC	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	HA	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	UE	501	GTP	O6-C6-C5	-2.12	120.23	124.37
107	RN	502	GTP	O6-C6-C5	-2.12	120.24	124.37
107	II	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	CK	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	LM	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	HY	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	IS	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	PM	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	QU	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	TK	501	GTP	O6-C6-C5	-2.12	120.24	124.37
107	PY	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	CW	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	WS	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	CS	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	VM	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	EI	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	PE	501	GTP	O6-C6-C5	-2.11	120.25	124.37
107	PN	502	GTP	O6-C6-C5	-2.11	120.26	124.37
107	CC	501	GTP	O6-C6-C5	-2.11	120.26	124.37
107	IW	501	GTP	O6-C6-C5	-2.11	120.26	124.37
107	FS	501	GTP	O6-C6-C5	-2.11	120.26	124.37
107	CI	501	GTP	O6-C6-C5	-2.10	120.26	124.37
107	KS	501	GTP	O6-C6-C5	-2.10	120.26	124.37
107	OA	501	GTP	O6-C6-C5	-2.10	120.26	124.37
107	DK	501	GTP	O6-C6-C5	-2.10	120.26	124.37
109	SP	501	GDP	O6-C6-C5	-2.10	120.27	124.37
107	TG	501	GTP	O6-C6-C5	-2.10	120.27	124.37
107	FK	501	GTP	O6-C6-C5	-2.10	120.27	124.37
107	PG	501	GTP	O6-C6-C5	-2.10	120.27	124.37
107	NS	501	GTP	O6-C6-C5	-2.10	120.27	124.37
109	KL	501	GDP	O6-C6-C5	-2.10	120.27	124.37
107	VU	501	GTP	PA-O3A-PB	-2.10	125.63	132.83
107	VG	501	GTP	O6-C6-C5	-2.10	120.28	124.37
107	DS	501	GTP	O6-C6-C5	-2.10	120.28	124.37
107	CM	501	GTP	O6-C6-C5	-2.10	120.28	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	ST	501	GDP	O6-C6-C5	-2.10	120.28	124.37
107	RI	501	GTP	O6-C6-C5	-2.10	120.28	124.37
107	CU	501	GTP	O6-C6-C5	-2.09	120.28	124.37
107	IK	501	GTP	O6-C6-C5	-2.09	120.28	124.37
107	MM	501	GTP	O6-C6-C5	-2.09	120.28	124.37
109	FZ	501	GDP	O6-C6-C5	-2.09	120.28	124.37
107	WK	501	GTP	O6-C6-C5	-2.09	120.28	124.37
107	DM	501	GTP	O6-C6-C5	-2.09	120.29	124.37
109	SD	501	GDP	O6-C6-C5	-2.09	120.29	124.37
107	ID	502	GTP	O6-C6-C5	-2.09	120.29	124.37
107	QR	502	GTP	O6-C6-C5	-2.09	120.29	124.37
107	BS	501	GTP	O6-C6-C5	-2.09	120.29	124.37
107	CQ	501	GTP	PA-O3A-PB	-2.09	125.66	132.83
107	IG	501	GTP	O6-C6-C5	-2.09	120.30	124.37
109	FP	501	GDP	O6-C6-C5	-2.09	120.30	124.37
107	QD	502	GTP	O6-C6-C5	-2.09	120.30	124.37
109	SF	501	GDP	O6-C6-C5	-2.09	120.30	124.37
107	DI	501	GTP	O6-C6-C5	-2.08	120.30	124.37
107	IY	501	GTP	O6-C6-C5	-2.08	120.31	124.37
107	IC	501	GTP	O6-C6-C5	-2.08	120.31	124.37
107	EU	501	GTP	O6-C6-C5	-2.08	120.32	124.37
107	QG	501	GTP	O6-C6-C5	-2.08	120.32	124.37
107	WQ	501	GTP	O6-C6-C5	-2.07	120.32	124.37
109	KR	501	GDP	O6-C6-C5	-2.07	120.32	124.37
107	PC	501	GTP	O6-C6-C5	-2.07	120.33	124.37
107	FM	501	GTP	C3'-C2'-C1'	2.07	104.10	100.98
107	EG	501	GTP	O6-C6-C5	-2.07	120.33	124.37
107	WE	501	GTP	O6-C6-C5	-2.07	120.33	124.37
107	JW	501	GTP	O6-C6-C5	-2.07	120.33	124.37
107	QI	501	GTP	O6-C6-C5	-2.06	120.34	124.37
107	JY	501	GTP	O6-C6-C5	-2.06	120.34	124.37
109	FH	501	GDP	O6-C6-C5	-2.06	120.34	124.37
107	IM	501	GTP	O6-C6-C5	-2.06	120.35	124.37
107	CY	501	GTP	O6-C6-C5	-2.06	120.35	124.37
107	IQ	501	GTP	O6-C6-C5	-2.06	120.35	124.37
107	FY	501	GTP	O6-C6-C5	-2.06	120.35	124.37
107	QL	502	GTP	O6-C6-C5	-2.05	120.36	124.37
107	ND	502	GTP	O6-C6-C5	-2.05	120.37	124.37
107	FQ	501	GTP	O6-C6-C5	-2.05	120.37	124.37
107	RF	502	GTP	O3G-PG-O3B	2.05	111.51	104.64
107	VW	501	GTP	PA-O3A-PB	-2.05	125.80	132.83
109	MX	501	GDP	O6-C6-C5	-2.05	120.37	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	DG	501	GTP	O6-C6-C5	-2.05	120.38	124.37
107	TQ	501	GTP	O6-C6-C5	-2.05	120.38	124.37
107	UY	501	GTP	O6-C6-C5	-2.04	120.38	124.37
107	WI	501	GTP	O6-C6-C5	-2.04	120.38	124.37
107	CE	501	GTP	O6-C6-C5	-2.04	120.39	124.37
107	HF	502	GTP	O6-C6-C5	-2.04	120.39	124.37
109	TL	501	GDP	O6-C6-C5	-2.04	120.39	124.37
109	SN	501	GDP	O6-C6-C5	-2.04	120.39	124.37
107	NL	502	GTP	PA-O3A-PB	-2.04	125.83	132.83
107	TN	502	GTP	O6-C6-C5	-2.04	120.40	124.37
107	HS	501	GTP	O6-C6-C5	-2.04	120.40	124.37
107	DW	501	GTP	O6-C6-C5	-2.03	120.40	124.37
109	LJ	501	GDP	O6-C6-C5	-2.03	120.41	124.37
107	DQ	501	GTP	O6-C6-C5	-2.03	120.41	124.37
107	CO	501	GTP	O6-C6-C5	-2.03	120.42	124.37
107	QX	502	GTP	O6-C6-C5	-2.02	120.42	124.37
107	IU	501	GTP	O6-C6-C5	-2.02	120.42	124.37
109	RL	501	GDP	O6-C6-C5	-2.02	120.43	124.37
107	WA	501	GTP	O6-C6-C5	-2.02	120.43	124.37
109	DT	501	GDP	C2'-C3'-C4'	2.02	106.56	102.64
107	WG	501	GTP	O6-C6-C5	-2.02	120.43	124.37
107	PA	501	GTP	O6-C6-C5	-2.02	120.43	124.37
107	FW	501	GTP	PA-O3A-PB	-2.02	125.91	132.83
109	FV	501	GDP	O6-C6-C5	-2.02	120.44	124.37
107	DE	501	GTP	O6-C6-C5	-2.00	120.46	124.37
107	EM	501	GTP	O6-C6-C5	-2.00	120.46	124.37
107	DY	501	GTP	O6-C6-C5	-2.00	120.46	124.37
107	WU	501	GTP	O6-C6-C5	-2.00	120.47	124.37

There are no chirality outliers.

All (1739) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
107	AZ	501	GTP	PB-O3A-PA-O5'
107	AC	501	GTP	C5'-O5'-PA-O1A
107	AE	501	GTP	C5'-O5'-PA-O1A
107	AE	501	GTP	C3'-C4'-C5'-O5'
107	AG	501	GTP	PB-O3A-PA-O5'
107	AG	501	GTP	C5'-O5'-PA-O3A
107	AG	501	GTP	C5'-O5'-PA-O1A
107	AI	501	GTP	PB-O3A-PA-O5'
107	AI	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
107	AK	501	GTP	C5'-O5'-PA-O3A
107	AK	501	GTP	C5'-O5'-PA-O1A
107	AO	501	GTP	PB-O3A-PA-O5'
107	AO	501	GTP	C5'-O5'-PA-O1A
107	AQ	501	GTP	C5'-O5'-PA-O1A
107	AS	501	GTP	C5'-O5'-PA-O3A
107	AS	501	GTP	C5'-O5'-PA-O1A
107	AU	501	GTP	PB-O3A-PA-O5'
107	AU	501	GTP	C5'-O5'-PA-O3A
107	AU	501	GTP	C5'-O5'-PA-O1A
107	AW	501	GTP	PB-O3A-PA-O5'
107	AY	501	GTP	PB-O3A-PA-O5'
107	AY	501	GTP	C5'-O5'-PA-O1A
107	BA	501	GTP	C5'-O5'-PA-O1A
107	BC	501	GTP	C5'-O5'-PA-O1A
107	BE	501	GTP	O4'-C4'-C5'-O5'
107	BE	501	GTP	C3'-C4'-C5'-O5'
107	BG	501	GTP	C5'-O5'-PA-O3A
107	BG	501	GTP	C5'-O5'-PA-O1A
107	BI	501	GTP	C3'-C4'-C5'-O5'
107	BK	501	GTP	C5'-O5'-PA-O1A
107	BM	501	GTP	O4'-C4'-C5'-O5'
107	BM	501	GTP	C3'-C4'-C5'-O5'
107	BO	501	GTP	PB-O3A-PA-O5'
107	BO	501	GTP	C5'-O5'-PA-O1A
107	BQ	501	GTP	C5'-O5'-PA-O1A
107	BS	501	GTP	C5'-O5'-PA-O1A
107	BS	501	GTP	C3'-C4'-C5'-O5'
107	BW	501	GTP	C5'-O5'-PA-O1A
107	BY	501	GTP	C5'-O5'-PA-O1A
107	CC	501	GTP	PB-O3A-PA-O5'
107	CC	501	GTP	C5'-O5'-PA-O1A
107	CC	501	GTP	C5'-O5'-PA-O2A
107	CC	501	GTP	O4'-C4'-C5'-O5'
107	CC	501	GTP	C3'-C4'-C5'-O5'
107	CE	501	GTP	C5'-O5'-PA-O3A
107	CG	501	GTP	C5'-O5'-PA-O1A
107	CG	501	GTP	C5'-O5'-PA-O2A
107	CG	501	GTP	C3'-C4'-C5'-O5'
107	CI	501	GTP	C5'-O5'-PA-O1A
107	CI	501	GTP	C5'-O5'-PA-O2A
107	CK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	CK	501	GTP	C5'-O5'-PA-O1A
107	CK	501	GTP	C5'-O5'-PA-O2A
107	CK	501	GTP	C3'-C4'-C5'-O5'
107	CM	501	GTP	C5'-O5'-PA-O1A
107	CM	501	GTP	O4'-C4'-C5'-O5'
107	CM	501	GTP	C3'-C4'-C5'-O5'
107	CO	501	GTP	C3'-C4'-C5'-O5'
107	CQ	501	GTP	C5'-O5'-PA-O3A
107	CQ	501	GTP	C5'-O5'-PA-O2A
107	CQ	501	GTP	C3'-C4'-C5'-O5'
107	CS	501	GTP	C5'-O5'-PA-O3A
107	CU	501	GTP	C5'-O5'-PA-O1A
107	CU	501	GTP	C5'-O5'-PA-O2A
107	CU	501	GTP	C3'-C4'-C5'-O5'
107	CW	501	GTP	C5'-O5'-PA-O1A
107	CW	501	GTP	C5'-O5'-PA-O2A
107	CY	501	GTP	C5'-O5'-PA-O3A
107	CY	501	GTP	C5'-O5'-PA-O2A
107	CY	501	GTP	C3'-C4'-C5'-O5'
107	DC	501	GTP	C5'-O5'-PA-O3A
107	DE	501	GTP	C5'-O5'-PA-O1A
107	DE	501	GTP	C5'-O5'-PA-O2A
107	DG	501	GTP	C5'-O5'-PA-O3A
107	DG	501	GTP	C5'-O5'-PA-O2A
107	DI	501	GTP	C5'-O5'-PA-O3A
107	DI	501	GTP	C4'-C5'-O5'-PA
107	DK	501	GTP	C5'-O5'-PA-O3A
107	DK	501	GTP	C4'-C5'-O5'-PA
107	DQ	501	GTP	C5'-O5'-PA-O3A
107	DS	501	GTP	C5'-O5'-PA-O3A
107	DU	501	GTP	C5'-O5'-PA-O1A
107	DU	501	GTP	C5'-O5'-PA-O2A
107	DW	501	GTP	C5'-O5'-PA-O3A
107	DW	501	GTP	C4'-C5'-O5'-PA
107	DY	501	GTP	C5'-O5'-PA-O3A
107	DY	501	GTP	C4'-C5'-O5'-PA
107	EC	501	GTP	C5'-O5'-PA-O1A
107	EC	501	GTP	C5'-O5'-PA-O2A
107	EE	501	GTP	C5'-O5'-PA-O3A
107	EG	501	GTP	C5'-O5'-PA-O3A
107	ES	501	GTP	C5'-O5'-PA-O3A
107	EW	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	EY	501	GTP	C5'-O5'-PA-O3A
107	FC	501	GTP	C5'-O5'-PA-O3A
107	FC	501	GTP	C5'-O5'-PA-O2A
107	FE	501	GTP	C5'-O5'-PA-O3A
107	FE	501	GTP	C5'-O5'-PA-O2A
107	FG	501	GTP	C5'-O5'-PA-O3A
107	FI	501	GTP	C5'-O5'-PA-O1A
107	FI	501	GTP	C5'-O5'-PA-O2A
107	FK	501	GTP	PB-O3A-PA-O5'
107	FK	501	GTP	C5'-O5'-PA-O3A
107	FM	501	GTP	C5'-O5'-PA-O3A
107	FN	502	GTP	C5'-O5'-PA-O3A
107	FQ	501	GTP	C5'-O5'-PA-O3A
107	FQ	501	GTP	C5'-O5'-PA-O2A
107	FS	501	GTP	C5'-O5'-PA-O3A
107	FU	501	GTP	C5'-O5'-PA-O3A
107	FW	501	GTP	C5'-O5'-PA-O1A
107	FW	501	GTP	C5'-O5'-PA-O2A
107	FY	501	GTP	C5'-O5'-PA-O3A
107	FY	501	GTP	C5'-O5'-PA-O1A
107	GC	501	GTP	C5'-O5'-PA-O3A
107	GE	501	GTP	C5'-O5'-PA-O3A
107	GG	501	GTP	C5'-O5'-PA-O3A
107	GG	501	GTP	C5'-O5'-PA-O1A
107	GG	501	GTP	C5'-O5'-PA-O2A
107	GI	501	GTP	C5'-O5'-PA-O3A
107	GI	501	GTP	C5'-O5'-PA-O2A
107	GK	501	GTP	C5'-O5'-PA-O3A
107	GO	501	GTP	C5'-O5'-PA-O3A
107	GQ	501	GTP	C5'-O5'-PA-O1A
107	GQ	501	GTP	C5'-O5'-PA-O2A
107	GR	502	GTP	C5'-O5'-PA-O1A
107	GR	502	GTP	C5'-O5'-PA-O2A
107	GU	501	GTP	C5'-O5'-PA-O3A
107	GU	501	GTP	C5'-O5'-PA-O1A
107	GU	501	GTP	C5'-O5'-PA-O2A
107	GW	501	GTP	C5'-O5'-PA-O3A
107	GW	501	GTP	C5'-O5'-PA-O2A
107	GX	502	GTP	PB-O3B-PG-O2G
107	GX	502	GTP	C5'-O5'-PA-O1A
107	GX	502	GTP	C5'-O5'-PA-O2A
107	HC	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	HC	501	GTP	C5'-O5'-PA-O1A
107	HC	501	GTP	C5'-O5'-PA-O2A
107	HE	501	GTP	PB-O3A-PA-O5'
107	HE	501	GTP	C5'-O5'-PA-O3A
107	HE	501	GTP	C5'-O5'-PA-O2A
107	HE	501	GTP	C3'-C4'-C5'-O5'
107	HF	502	GTP	C5'-O5'-PA-O3A
107	HF	502	GTP	C5'-O5'-PA-O2A
107	HI	501	GTP	C5'-O5'-PA-O1A
107	HI	501	GTP	C5'-O5'-PA-O2A
107	HK	501	GTP	C5'-O5'-PA-O1A
107	HM	501	GTP	C5'-O5'-PA-O3A
107	HM	501	GTP	C5'-O5'-PA-O2A
107	HN	502	GTP	C5'-O5'-PA-O3A
107	HN	502	GTP	C5'-O5'-PA-O1A
107	HN	502	GTP	C5'-O5'-PA-O2A
107	HQ	501	GTP	C5'-O5'-PA-O3A
107	HQ	501	GTP	C5'-O5'-PA-O1A
107	HQ	501	GTP	C5'-O5'-PA-O2A
107	HS	501	GTP	PB-O3A-PA-O5'
107	HS	501	GTP	C5'-O5'-PA-O3A
107	HU	501	GTP	C5'-O5'-PA-O3A
107	HU	501	GTP	C5'-O5'-PA-O2A
107	HW	501	GTP	C5'-O5'-PA-O1A
107	HW	501	GTP	C5'-O5'-PA-O2A
107	IA	501	GTP	C5'-O5'-PA-O3A
107	IA	501	GTP	C5'-O5'-PA-O1A
107	IA	501	GTP	C5'-O5'-PA-O2A
107	IC	501	GTP	C5'-O5'-PA-O1A
107	IC	501	GTP	C5'-O5'-PA-O2A
107	ID	502	GTP	C5'-O5'-PA-O3A
107	ID	502	GTP	C5'-O5'-PA-O2A
107	IG	501	GTP	C5'-O5'-PA-O1A
107	IG	501	GTP	C5'-O5'-PA-O2A
107	II	501	GTP	C5'-O5'-PA-O3A
107	II	501	GTP	C5'-O5'-PA-O1A
107	II	501	GTP	C5'-O5'-PA-O2A
107	IK	501	GTP	C5'-O5'-PA-O3A
107	IK	501	GTP	C5'-O5'-PA-O2A
107	IM	501	GTP	C5'-O5'-PA-O3A
107	IM	501	GTP	C5'-O5'-PA-O1A
107	IM	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
107	IO	501	GTP	C5'-O5'-PA-O1A
107	IO	501	GTP	C5'-O5'-PA-O2A
107	IQ	501	GTP	C5'-O5'-PA-O1A
107	IQ	501	GTP	C5'-O5'-PA-O2A
107	IS	501	GTP	C5'-O5'-PA-O3A
107	IS	501	GTP	C5'-O5'-PA-O2A
107	IU	501	GTP	C5'-O5'-PA-O3A
107	IW	501	GTP	C5'-O5'-PA-O3A
107	IW	501	GTP	C5'-O5'-PA-O2A
107	IY	501	GTP	C5'-O5'-PA-O3A
107	IY	501	GTP	C5'-O5'-PA-O2A
107	JC	501	GTP	C5'-O5'-PA-O3A
107	JD	502	GTP	C5'-O5'-PA-O1A
107	JD	502	GTP	C5'-O5'-PA-O2A
107	JG	501	GTP	C5'-O5'-PA-O3A
107	JJ	502	GTP	C5'-O5'-PA-O3A
107	JM	501	GTP	C5'-O5'-PA-O3A
107	JQ	501	GTP	C5'-O5'-PA-O1A
107	JQ	501	GTP	C5'-O5'-PA-O2A
107	JR	502	GTP	C5'-O5'-PA-O3A
107	JR	502	GTP	C5'-O5'-PA-O2A
107	JW	501	GTP	C5'-O5'-PA-O3A
107	JW	501	GTP	C5'-O5'-PA-O2A
107	JY	501	GTP	C5'-O5'-PA-O3A
107	KC	501	GTP	PB-O3A-PA-O5'
107	KC	501	GTP	C5'-O5'-PA-O3A
107	KE	501	GTP	PB-O3A-PA-O5'
107	KE	501	GTP	C5'-O5'-PA-O3A
107	KF	502	GTP	PB-O3B-PG-O2G
107	KF	502	GTP	C5'-O5'-PA-O1A
107	KF	502	GTP	C5'-O5'-PA-O2A
107	KI	501	GTP	C5'-O5'-PA-O3A
107	KK	501	GTP	PB-O3A-PA-O5'
107	KK	501	GTP	C5'-O5'-PA-O3A
107	KM	501	GTP	C5'-O5'-PA-O3A
107	KM	501	GTP	C5'-O5'-PA-O2A
107	KN	502	GTP	C5'-O5'-PA-O1A
107	KN	502	GTP	C5'-O5'-PA-O2A
107	KQ	501	GTP	C5'-O5'-PA-O3A
107	KQ	501	GTP	C5'-O5'-PA-O2A
107	KS	501	GTP	C5'-O5'-PA-O3A
107	KU	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
107	KU	501	GTP	C5'-O5'-PA-O3A
107	KW	501	GTP	C5'-O5'-PA-O3A
107	KY	501	GTP	C5'-O5'-PA-O3A
107	KY	501	GTP	C5'-O5'-PA-O1A
107	LC	501	GTP	C5'-O5'-PA-O3A
107	LC	501	GTP	C5'-O5'-PA-O2A
107	LE	501	GTP	C5'-O5'-PA-O3A
107	LG	501	GTP	C5'-O5'-PA-O3A
107	LI	501	GTP	C5'-O5'-PA-O3A
107	LK	501	GTP	C5'-O5'-PA-O3A
107	LK	501	GTP	C5'-O5'-PA-O1A
107	LK	501	GTP	C5'-O5'-PA-O2A
107	LM	501	GTP	C5'-O5'-PA-O3A
107	LO	501	GTP	C5'-O5'-PA-O3A
107	LO	501	GTP	C5'-O5'-PA-O2A
107	LQ	501	GTP	PB-O3B-PG-O2G
107	LQ	501	GTP	PB-O3B-PG-O3G
107	LQ	501	GTP	C5'-O5'-PA-O3A
107	LS	501	GTP	PB-O3B-PG-O2G
107	LS	501	GTP	PB-O3B-PG-O3G
107	LS	501	GTP	C5'-O5'-PA-O1A
107	LS	501	GTP	C5'-O5'-PA-O2A
107	LU	501	GTP	C5'-O5'-PA-O3A
107	LW	501	GTP	C5'-O5'-PA-O3A
107	LY	501	GTP	C5'-O5'-PA-O3A
107	MA	501	GTP	PB-O3A-PA-O5'
107	MA	501	GTP	C5'-O5'-PA-O1A
107	MC	501	GTP	C5'-O5'-PA-O3A
107	MC	501	GTP	C5'-O5'-PA-O2A
107	ME	501	GTP	C5'-O5'-PA-O3A
107	MG	501	GTP	C5'-O5'-PA-O3A
107	MG	501	GTP	C5'-O5'-PA-O1A
107	MG	501	GTP	C5'-O5'-PA-O2A
107	MI	501	GTP	C5'-O5'-PA-O3A
107	MI	501	GTP	C5'-O5'-PA-O2A
107	MK	501	GTP	PB-O3A-PA-O5'
107	MK	501	GTP	C5'-O5'-PA-O1A
107	MM	501	GTP	C5'-O5'-PA-O3A
107	MM	501	GTP	C5'-O5'-PA-O2A
107	MN	502	GTP	C5'-O5'-PA-O3A
107	MQ	501	GTP	PB-O3A-PA-O5'
107	MQ	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	MQ	501	GTP	C5'-O5'-PA-O2A
107	MS	501	GTP	C5'-O5'-PA-O3A
107	MS	501	GTP	C5'-O5'-PA-O1A
107	MS	501	GTP	C5'-O5'-PA-O2A
107	MT	502	GTP	C5'-O5'-PA-O3A
107	MT	502	GTP	C5'-O5'-PA-O1A
107	MT	502	GTP	C5'-O5'-PA-O2A
107	MW	501	GTP	C5'-O5'-PA-O1A
107	MW	501	GTP	C5'-O5'-PA-O2A
107	MY	501	GTP	PB-O3A-PA-O5'
107	MY	501	GTP	C5'-O5'-PA-O3A
107	MY	501	GTP	C5'-O5'-PA-O1A
107	NA	501	GTP	PB-O3A-PA-O5'
107	NA	501	GTP	C5'-O5'-PA-O1A
107	NA	501	GTP	C5'-O5'-PA-O2A
107	NC	501	GTP	C5'-O5'-PA-O1A
107	NC	501	GTP	C5'-O5'-PA-O2A
107	ND	502	GTP	C5'-O5'-PA-O1A
107	ND	502	GTP	C5'-O5'-PA-O2A
107	NG	501	GTP	C5'-O5'-PA-O1A
107	NG	501	GTP	C5'-O5'-PA-O2A
107	NI	501	GTP	C5'-O5'-PA-O3A
107	NI	501	GTP	C5'-O5'-PA-O2A
107	NK	501	GTP	C5'-O5'-PA-O3A
107	NL	502	GTP	C5'-O5'-PA-O1A
107	NL	502	GTP	C5'-O5'-PA-O2A
107	NO	501	GTP	C5'-O5'-PA-O3A
107	NQ	501	GTP	C5'-O5'-PA-O3A
107	NS	501	GTP	C5'-O5'-PA-O3A
107	NS	501	GTP	C5'-O5'-PA-O2A
107	NU	501	GTP	C5'-O5'-PA-O3A
107	NU	501	GTP	C5'-O5'-PA-O2A
107	NW	501	GTP	C5'-O5'-PA-O3A
107	NW	501	GTP	C5'-O5'-PA-O2A
107	OA	501	GTP	C5'-O5'-PA-O3A
107	OA	501	GTP	C5'-O5'-PA-O1A
107	OA	501	GTP	C5'-O5'-PA-O2A
107	OC	501	GTP	C5'-O5'-PA-O1A
107	OC	501	GTP	C5'-O5'-PA-O2A
107	OE	501	GTP	C5'-O5'-PA-O3A
107	OE	501	GTP	C5'-O5'-PA-O2A
107	OG	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	OG	501	GTP	C5'-O5'-PA-O2A
107	OI	501	GTP	PB-O3B-PG-O3G
107	OI	501	GTP	C5'-O5'-PA-O3A
107	OK	501	GTP	C5'-O5'-PA-O3A
107	OK	501	GTP	C5'-O5'-PA-O2A
107	OM	501	GTP	C5'-O5'-PA-O3A
107	OM	501	GTP	C5'-O5'-PA-O2A
107	OM	501	GTP	C4'-C5'-O5'-PA
107	OO	501	GTP	C5'-O5'-PA-O3A
107	OO	501	GTP	C5'-O5'-PA-O1A
107	OO	501	GTP	C5'-O5'-PA-O2A
107	OQ	501	GTP	C5'-O5'-PA-O1A
107	OQ	501	GTP	C5'-O5'-PA-O2A
107	OS	501	GTP	C5'-O5'-PA-O3A
107	OS	501	GTP	C4'-C5'-O5'-PA
107	OU	501	GTP	C5'-O5'-PA-O3A
107	OW	501	GTP	C5'-O5'-PA-O3A
107	OW	501	GTP	C5'-O5'-PA-O1A
107	OW	501	GTP	C5'-O5'-PA-O2A
107	OY	501	GTP	C5'-O5'-PA-O3A
107	PA	501	GTP	PB-O3A-PA-O5'
107	PA	501	GTP	C5'-O5'-PA-O3A
107	PA	501	GTP	C5'-O5'-PA-O2A
107	PC	501	GTP	PB-O3A-PA-O5'
107	PC	501	GTP	C5'-O5'-PA-O3A
107	PC	501	GTP	C5'-O5'-PA-O1A
107	PC	501	GTP	C5'-O5'-PA-O2A
107	PE	501	GTP	PB-O3A-PA-O5'
107	PE	501	GTP	C5'-O5'-PA-O3A
107	PE	501	GTP	C5'-O5'-PA-O2A
107	PG	501	GTP	C5'-O5'-PA-O3A
107	PG	501	GTP	C5'-O5'-PA-O2A
107	PI	501	GTP	C5'-O5'-PA-O3A
107	PI	501	GTP	C5'-O5'-PA-O2A
107	PK	501	GTP	PB-O3A-PA-O5'
107	PK	501	GTP	C5'-O5'-PA-O3A
107	PK	501	GTP	C5'-O5'-PA-O1A
107	PM	501	GTP	C5'-O5'-PA-O3A
107	PM	501	GTP	C5'-O5'-PA-O2A
107	PN	502	GTP	C5'-O5'-PA-O1A
107	PN	502	GTP	C5'-O5'-PA-O2A
107	PQ	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	PQ	501	GTP	C5'-O5'-PA-O2A
107	PS	501	GTP	C5'-O5'-PA-O3A
107	PS	501	GTP	C5'-O5'-PA-O2A
107	PT	502	GTP	C5'-O5'-PA-O3A
107	PT	502	GTP	C5'-O5'-PA-O1A
107	PT	502	GTP	C5'-O5'-PA-O2A
107	PW	501	GTP	C5'-O5'-PA-O3A
107	PY	501	GTP	C5'-O5'-PA-O3A
107	PY	501	GTP	C5'-O5'-PA-O1A
107	QA	501	GTP	C5'-O5'-PA-O3A
107	QA	501	GTP	C5'-O5'-PA-O2A
107	QC	501	GTP	C5'-O5'-PA-O1A
107	QC	501	GTP	C5'-O5'-PA-O2A
107	QD	502	GTP	C5'-O5'-PA-O1A
107	QD	502	GTP	C5'-O5'-PA-O2A
107	QI	501	GTP	C5'-O5'-PA-O3A
107	QL	502	GTP	C5'-O5'-PA-O3A
107	QL	502	GTP	C5'-O5'-PA-O2A
107	QO	501	GTP	C5'-O5'-PA-O3A
107	QQ	501	GTP	C5'-O5'-PA-O3A
107	QR	502	GTP	C5'-O5'-PA-O3A
107	QR	502	GTP	C5'-O5'-PA-O2A
107	QW	501	GTP	C5'-O5'-PA-O3A
107	QX	502	GTP	C5'-O5'-PA-O3A
107	RA	501	GTP	C5'-O5'-PA-O3A
107	RC	501	GTP	C5'-O5'-PA-O3A
107	RE	501	GTP	C5'-O5'-PA-O3A
107	RE	501	GTP	C5'-O5'-PA-O2A
107	RF	502	GTP	C5'-O5'-PA-O3A
107	RF	502	GTP	C5'-O5'-PA-O2A
107	RI	501	GTP	C5'-O5'-PA-O3A
107	RK	501	GTP	C5'-O5'-PA-O3A
107	RK	501	GTP	C5'-O5'-PA-O1A
107	RM	501	GTP	C5'-O5'-PA-O3A
107	RN	502	GTP	PB-O3B-PG-O3G
107	RN	502	GTP	PB-O3A-PA-O5'
107	RN	502	GTP	C5'-O5'-PA-O3A
107	RN	502	GTP	C5'-O5'-PA-O2A
107	RQ	501	GTP	C5'-O5'-PA-O3A
107	RS	501	GTP	C5'-O5'-PA-O3A
107	RT	502	GTP	C5'-O5'-PA-O3A
107	RT	502	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
107	RW	501	GTP	C5'-O5'-PA-O3A
107	RW	501	GTP	C5'-O5'-PA-O2A
107	RY	501	GTP	PB-O3A-PA-O5'
107	RY	501	GTP	C5'-O5'-PA-O3A
107	SC	501	GTP	C5'-O5'-PA-O1A
107	SC	501	GTP	C5'-O5'-PA-O2A
107	SG	501	GTP	C5'-O5'-PA-O3A
107	SI	501	GTP	C5'-O5'-PA-O3A
107	SL	502	GTP	C5'-O5'-PA-O3A
107	SO	501	GTP	C5'-O5'-PA-O3A
107	SQ	501	GTP	C5'-O5'-PA-O3A
107	SR	502	GTP	C5'-O5'-PA-O3A
107	SR	502	GTP	C5'-O5'-PA-O1A
107	SR	502	GTP	C5'-O5'-PA-O2A
107	SU	501	GTP	C5'-O5'-PA-O3A
107	SW	501	GTP	C5'-O5'-PA-O3A
107	SX	502	GTP	C5'-O5'-PA-O3A
107	TB	502	GTP	PB-O3A-PA-O5'
107	TB	502	GTP	C5'-O5'-PA-O1A
107	TB	502	GTP	C5'-O5'-PA-O2A
107	TE	501	GTP	C5'-O5'-PA-O3A
107	TE	501	GTP	C5'-O5'-PA-O2A
107	TG	501	GTP	PB-O3A-PA-O5'
107	TG	501	GTP	C5'-O5'-PA-O3A
107	TG	501	GTP	C5'-O5'-PA-O2A
107	TI	501	GTP	C5'-O5'-PA-O3A
107	TI	501	GTP	C5'-O5'-PA-O2A
107	TK	501	GTP	PB-O3A-PA-O5'
107	TK	501	GTP	C5'-O5'-PA-O3A
107	TM	501	GTP	C5'-O5'-PA-O3A
107	TM	501	GTP	C5'-O5'-PA-O2A
107	TN	502	GTP	PB-O3A-PA-O5'
107	TN	502	GTP	C5'-O5'-PA-O3A
107	TN	502	GTP	C5'-O5'-PA-O2A
107	TQ	501	GTP	C5'-O5'-PA-O3A
107	TQ	501	GTP	C5'-O5'-PA-O2A
107	TS	501	GTP	C5'-O5'-PA-O3A
107	TU	501	GTP	PB-O3A-PA-O5'
107	TU	501	GTP	C5'-O5'-PA-O3A
107	TU	501	GTP	C5'-O5'-PA-O2A
107	TW	501	GTP	C5'-O5'-PA-O3A
107	TW	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
107	TY	501	GTP	PB-O3A-PA-O5'
107	TY	501	GTP	C5'-O5'-PA-O3A
107	UC	501	GTP	C5'-O5'-PA-O1A
107	UC	501	GTP	C5'-O5'-PA-O2A
107	UE	501	GTP	C5'-O5'-PA-O3A
107	UE	501	GTP	C5'-O5'-PA-O2A
107	UG	501	GTP	C5'-O5'-PA-O1A
107	UG	501	GTP	C5'-O5'-PA-O2A
107	UI	501	GTP	C5'-O5'-PA-O3A
107	UK	501	GTP	C5'-O5'-PA-O3A
107	UK	501	GTP	C5'-O5'-PA-O2A
107	UM	501	GTP	C5'-O5'-PA-O3A
107	UM	501	GTP	C5'-O5'-PA-O2A
107	UO	501	GTP	C5'-O5'-PA-O3A
107	UO	501	GTP	C5'-O5'-PA-O2A
107	UQ	501	GTP	C5'-O5'-PA-O1A
107	UQ	501	GTP	C5'-O5'-PA-O2A
107	US	501	GTP	C5'-O5'-PA-O3A
107	UU	501	GTP	C5'-O5'-PA-O1A
107	UU	501	GTP	C5'-O5'-PA-O2A
107	UW	501	GTP	C5'-O5'-PA-O3A
107	UY	501	GTP	C5'-O5'-PA-O3A
107	UY	501	GTP	C5'-O5'-PA-O2A
107	VC	501	GTP	C5'-O5'-PA-O1A
107	VC	501	GTP	C5'-O5'-PA-O2A
107	VE	501	GTP	C5'-O5'-PA-O3A
107	VE	501	GTP	C5'-O5'-PA-O2A
107	VG	501	GTP	C5'-O5'-PA-O3A
107	VG	501	GTP	C5'-O5'-PA-O1A
107	VG	501	GTP	C5'-O5'-PA-O2A
107	VI	501	GTP	C5'-O5'-PA-O1A
107	VI	501	GTP	C5'-O5'-PA-O2A
107	VK	501	GTP	C5'-O5'-PA-O3A
107	VK	501	GTP	C5'-O5'-PA-O1A
107	VM	501	GTP	C5'-O5'-PA-O3A
107	VM	501	GTP	C5'-O5'-PA-O1A
107	VM	501	GTP	C5'-O5'-PA-O2A
107	VN	502	GTP	PB-O3A-PA-O5'
107	VN	502	GTP	C5'-O5'-PA-O1A
107	VN	502	GTP	C5'-O5'-PA-O2A
107	VQ	501	GTP	C5'-O5'-PA-O3A
107	VQ	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
107	VQ	501	GTP	C5'-O5'-PA-O2A
107	VS	501	GTP	C5'-O5'-PA-O3A
107	VS	501	GTP	C5'-O5'-PA-O1A
107	VS	501	GTP	C5'-O5'-PA-O2A
107	VS	501	GTP	C3'-C4'-C5'-O5'
107	VU	501	GTP	C5'-O5'-PA-O3A
107	VU	501	GTP	C5'-O5'-PA-O2A
107	VU	501	GTP	C3'-C4'-C5'-O5'
107	VW	501	GTP	C5'-O5'-PA-O3A
107	WA	501	GTP	C5'-O5'-PA-O3A
107	WA	501	GTP	C5'-O5'-PA-O1A
107	WC	501	GTP	C5'-O5'-PA-O3A
107	WC	501	GTP	C5'-O5'-PA-O1A
107	WE	501	GTP	C5'-O5'-PA-O3A
107	WE	501	GTP	C5'-O5'-PA-O1A
107	WG	501	GTP	C5'-O5'-PA-O1A
107	WG	501	GTP	C3'-C4'-C5'-O5'
107	WI	501	GTP	C5'-O5'-PA-O3A
107	WK	501	GTP	C5'-O5'-PA-O1A
107	WM	501	GTP	PB-O3A-PA-O5'
107	WM	501	GTP	C3'-C4'-C5'-O5'
107	WO	501	GTP	PB-O3A-PA-O5'
107	WQ	501	GTP	C5'-O5'-PA-O3A
107	WQ	501	GTP	C5'-O5'-PA-O1A
107	WS	501	GTP	C5'-O5'-PA-O1A
107	WS	501	GTP	C3'-C4'-C5'-O5'
107	WW	501	GTP	C5'-O5'-PA-O1A
109	AB	501	GDP	C5'-O5'-PA-O1A
109	AP	501	GDP	C5'-O5'-PA-O1A
109	AR	501	GDP	C5'-O5'-PA-O1A
109	AV	501	GDP	C5'-O5'-PA-O1A
109	BB	501	GDP	C5'-O5'-PA-O1A
109	BF	501	GDP	C5'-O5'-PA-O1A
109	BJ	501	GDP	C5'-O5'-PA-O1A
109	BR	501	GDP	C5'-O5'-PA-O1A
109	BT	501	GDP	C5'-O5'-PA-O1A
109	CB	501	GDP	C5'-O5'-PA-O1A
109	CL	501	GDP	C5'-O5'-PA-O1A
109	CP	501	GDP	C5'-O5'-PA-O1A
109	CT	501	GDP	C5'-O5'-PA-O1A
109	DF	501	GDP	C5'-O5'-PA-O1A
109	DH	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	DV	501	GDP	C5'-O5'-PA-O1A
109	ER	501	GDP	C5'-O5'-PA-O1A
109	FB	501	GDP	C5'-O5'-PA-O3A
109	FB	501	GDP	C5'-O5'-PA-O1A
109	FB	501	GDP	C3'-C4'-C5'-O5'
109	FD	501	GDP	C5'-O5'-PA-O1A
109	FD	501	GDP	C3'-C4'-C5'-O5'
109	FH	501	GDP	C5'-O5'-PA-O1A
109	FJ	501	GDP	C5'-O5'-PA-O3A
109	FJ	501	GDP	C5'-O5'-PA-O1A
109	FL	501	GDP	C5'-O5'-PA-O1A
109	FN	501	GDP	C5'-O5'-PA-O3A
109	FN	501	GDP	C5'-O5'-PA-O1A
109	FP	501	GDP	C5'-O5'-PA-O1A
109	FR	501	GDP	C5'-O5'-PA-O3A
109	FR	501	GDP	C5'-O5'-PA-O1A
109	FR	501	GDP	O4'-C4'-C5'-O5'
109	FR	501	GDP	C3'-C4'-C5'-O5'
109	FV	501	GDP	C5'-O5'-PA-O3A
109	FV	501	GDP	C5'-O5'-PA-O1A
109	GF	501	GDP	C5'-O5'-PA-O1A
109	HB	501	GDP	C5'-O5'-PA-O1A
109	IJ	501	GDP	C5'-O5'-PA-O1A
109	IN	501	GDP	C5'-O5'-PA-O1A
109	KB	501	GDP	C5'-O5'-PA-O1A
109	KP	501	GDP	C5'-O5'-PA-O1A
109	KR	501	GDP	C5'-O5'-PA-O1A
109	LD	501	GDP	C5'-O5'-PA-O1A
109	LF	501	GDP	C5'-O5'-PA-O1A
109	LL	501	GDP	C5'-O5'-PA-O1A
109	LR	501	GDP	C5'-O5'-PA-O1A
109	LT	501	GDP	C5'-O5'-PA-O1A
109	MD	501	GDP	C5'-O5'-PA-O1A
109	ML	501	GDP	C5'-O5'-PA-O1A
109	MT	501	GDP	C5'-O5'-PA-O1A
109	MZ	501	GDP	C5'-O5'-PA-O1A
109	ON	501	GDP	C5'-O5'-PA-O1A
109	RD	501	GDP	C5'-O5'-PA-O1A
109	RL	501	GDP	C5'-O5'-PA-O1A
109	SB	501	GDP	C5'-O5'-PA-O1A
109	TD	501	GDP	C5'-O5'-PA-O1A
109	TH	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	TL	501	GDP	C5'-O5'-PA-O1A
109	TT	501	GDP	C5'-O5'-PA-O1A
109	TZ	501	GDP	C5'-O5'-PA-O1A
109	UD	501	GDP	C5'-O5'-PA-O1A
109	WB	501	GDP	C5'-O5'-PA-O1A
109	WL	501	GDP	C5'-O5'-PA-O1A
109	WN	501	GDP	C5'-O5'-PA-O1A
109	WV	501	GDP	C5'-O5'-PA-O1A
107	AE	501	GTP	O4'-C4'-C5'-O5'
107	BC	501	GTP	C3'-C4'-C5'-O5'
107	BG	501	GTP	C3'-C4'-C5'-O5'
107	BI	501	GTP	O4'-C4'-C5'-O5'
107	BQ	501	GTP	O4'-C4'-C5'-O5'
107	BQ	501	GTP	C3'-C4'-C5'-O5'
107	BS	501	GTP	O4'-C4'-C5'-O5'
107	BW	501	GTP	O4'-C4'-C5'-O5'
107	BW	501	GTP	C3'-C4'-C5'-O5'
107	CG	501	GTP	O4'-C4'-C5'-O5'
107	CK	501	GTP	O4'-C4'-C5'-O5'
107	CO	501	GTP	O4'-C4'-C5'-O5'
107	CQ	501	GTP	O4'-C4'-C5'-O5'
107	CU	501	GTP	O4'-C4'-C5'-O5'
107	CY	501	GTP	O4'-C4'-C5'-O5'
107	FI	501	GTP	C3'-C4'-C5'-O5'
107	HA	501	GTP	O4'-C4'-C5'-O5'
107	HA	501	GTP	C3'-C4'-C5'-O5'
107	HC	501	GTP	C3'-C4'-C5'-O5'
107	HE	501	GTP	O4'-C4'-C5'-O5'
107	HF	502	GTP	O4'-C4'-C5'-O5'
107	HF	502	GTP	C3'-C4'-C5'-O5'
107	HQ	501	GTP	C3'-C4'-C5'-O5'
107	HS	501	GTP	C3'-C4'-C5'-O5'
107	HU	501	GTP	O4'-C4'-C5'-O5'
107	HU	501	GTP	C3'-C4'-C5'-O5'
107	HY	501	GTP	C3'-C4'-C5'-O5'
107	OO	501	GTP	C3'-C4'-C5'-O5'
107	UO	501	GTP	C3'-C4'-C5'-O5'
107	VE	501	GTP	O4'-C4'-C5'-O5'
107	VE	501	GTP	C3'-C4'-C5'-O5'
107	VQ	501	GTP	O4'-C4'-C5'-O5'
107	VQ	501	GTP	C3'-C4'-C5'-O5'
107	VS	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
107	VU	501	GTP	O4'-C4'-C5'-O5'
107	VY	501	GTP	O4'-C4'-C5'-O5'
107	VY	501	GTP	C3'-C4'-C5'-O5'
107	WC	501	GTP	C3'-C4'-C5'-O5'
107	WE	501	GTP	C3'-C4'-C5'-O5'
107	WG	501	GTP	O4'-C4'-C5'-O5'
107	WK	501	GTP	C3'-C4'-C5'-O5'
107	WM	501	GTP	O4'-C4'-C5'-O5'
107	WO	501	GTP	C3'-C4'-C5'-O5'
107	WS	501	GTP	O4'-C4'-C5'-O5'
107	WU	501	GTP	C3'-C4'-C5'-O5'
109	FB	501	GDP	O4'-C4'-C5'-O5'
109	FD	501	GDP	O4'-C4'-C5'-O5'
109	FV	501	GDP	O4'-C4'-C5'-O5'
109	FV	501	GDP	C3'-C4'-C5'-O5'
109	LF	501	GDP	C3'-C4'-C5'-O5'
109	MD	501	GDP	C3'-C4'-C5'-O5'
109	RD	501	GDP	O4'-C4'-C5'-O5'
109	RD	501	GDP	C3'-C4'-C5'-O5'
107	FW	501	GTP	C4'-C5'-O5'-PA
107	GM	501	GTP	C4'-C5'-O5'-PA
107	IK	501	GTP	C4'-C5'-O5'-PA
107	IY	501	GTP	C4'-C5'-O5'-PA
107	MI	501	GTP	C4'-C5'-O5'-PA
107	NO	501	GTP	C4'-C5'-O5'-PA
107	OE	501	GTP	C4'-C5'-O5'-PA
107	OI	501	GTP	C4'-C5'-O5'-PA
107	OO	501	GTP	C4'-C5'-O5'-PA
107	OU	501	GTP	C4'-C5'-O5'-PA
107	RW	501	GTP	C4'-C5'-O5'-PA
107	VW	501	GTP	C4'-C5'-O5'-PA
107	BC	501	GTP	O4'-C4'-C5'-O5'
107	BG	501	GTP	O4'-C4'-C5'-O5'
107	HC	501	GTP	O4'-C4'-C5'-O5'
107	HQ	501	GTP	O4'-C4'-C5'-O5'
107	HS	501	GTP	O4'-C4'-C5'-O5'
107	HY	501	GTP	O4'-C4'-C5'-O5'
107	OA	501	GTP	O4'-C4'-C5'-O5'
107	OA	501	GTP	C3'-C4'-C5'-O5'
107	OM	501	GTP	C3'-C4'-C5'-O5'
107	VN	502	GTP	O4'-C4'-C5'-O5'
107	VN	502	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
107	WC	501	GTP	O4'-C4'-C5'-O5'
107	WE	501	GTP	O4'-C4'-C5'-O5'
107	WK	501	GTP	O4'-C4'-C5'-O5'
107	WO	501	GTP	O4'-C4'-C5'-O5'
107	WQ	501	GTP	O4'-C4'-C5'-O5'
107	WQ	501	GTP	C3'-C4'-C5'-O5'
107	WU	501	GTP	O4'-C4'-C5'-O5'
109	LF	501	GDP	O4'-C4'-C5'-O5'
109	MD	501	GDP	O4'-C4'-C5'-O5'
109	RH	501	GDP	O4'-C4'-C5'-O5'
109	RH	501	GDP	C3'-C4'-C5'-O5'
109	TZ	501	GDP	O4'-C4'-C5'-O5'
107	GC	501	GTP	C4'-C5'-O5'-PA
107	KW	501	GTP	C4'-C5'-O5'-PA
107	LE	501	GTP	C4'-C5'-O5'-PA
107	OK	501	GTP	C4'-C5'-O5'-PA
107	PI	501	GTP	C4'-C5'-O5'-PA
107	SX	502	GTP	C4'-C5'-O5'-PA
107	BK	501	GTP	C3'-C4'-C5'-O5'
109	FH	501	GDP	O4'-C4'-C5'-O5'
109	FH	501	GDP	C3'-C4'-C5'-O5'
109	LT	501	GDP	C3'-C4'-C5'-O5'
109	TD	501	GDP	O4'-C4'-C5'-O5'
109	TD	501	GDP	C3'-C4'-C5'-O5'
109	TZ	501	GDP	C3'-C4'-C5'-O5'
107	GK	501	GTP	C4'-C5'-O5'-PA
107	GO	501	GTP	C4'-C5'-O5'-PA
107	ID	502	GTP	C4'-C5'-O5'-PA
107	II	501	GTP	C4'-C5'-O5'-PA
107	IO	501	GTP	C4'-C5'-O5'-PA
107	IS	501	GTP	C4'-C5'-O5'-PA
107	IW	501	GTP	C4'-C5'-O5'-PA
107	JG	501	GTP	C4'-C5'-O5'-PA
107	KI	501	GTP	C4'-C5'-O5'-PA
107	LU	501	GTP	C4'-C5'-O5'-PA
107	PW	501	GTP	C4'-C5'-O5'-PA
107	RI	501	GTP	C4'-C5'-O5'-PA
107	SO	501	GTP	C4'-C5'-O5'-PA
107	US	501	GTP	C4'-C5'-O5'-PA
107	BU	501	GTP	C3'-C4'-C5'-O5'
107	BY	501	GTP	C3'-C4'-C5'-O5'
107	CS	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
107	FW	501	GTP	C3'-C4'-C5'-O5'
107	GM	501	GTP	C3'-C4'-C5'-O5'
107	IO	501	GTP	C3'-C4'-C5'-O5'
107	IY	501	GTP	C3'-C4'-C5'-O5'
107	ME	501	GTP	C3'-C4'-C5'-O5'
107	NO	501	GTP	C3'-C4'-C5'-O5'
107	PC	501	GTP	C3'-C4'-C5'-O5'
107	PE	501	GTP	C3'-C4'-C5'-O5'
107	VM	501	GTP	C3'-C4'-C5'-O5'
109	FZ	501	GDP	C3'-C4'-C5'-O5'
109	KR	501	GDP	C3'-C4'-C5'-O5'
109	SB	501	GDP	C3'-C4'-C5'-O5'
107	JM	501	GTP	C4'-C5'-O5'-PA
107	LQ	501	GTP	C4'-C5'-O5'-PA
107	NS	501	GTP	C4'-C5'-O5'-PA
107	AI	501	GTP	C3'-C4'-C5'-O5'
107	AW	501	GTP	C3'-C4'-C5'-O5'
107	BK	501	GTP	O4'-C4'-C5'-O5'
107	BY	501	GTP	O4'-C4'-C5'-O5'
107	FI	501	GTP	O4'-C4'-C5'-O5'
107	HN	502	GTP	C3'-C4'-C5'-O5'
107	ME	501	GTP	O4'-C4'-C5'-O5'
107	MI	501	GTP	C3'-C4'-C5'-O5'
107	OM	501	GTP	O4'-C4'-C5'-O5'
107	OO	501	GTP	O4'-C4'-C5'-O5'
107	PC	501	GTP	O4'-C4'-C5'-O5'
107	PE	501	GTP	O4'-C4'-C5'-O5'
107	PK	501	GTP	C3'-C4'-C5'-O5'
107	PS	501	GTP	C3'-C4'-C5'-O5'
107	PT	502	GTP	C3'-C4'-C5'-O5'
107	PY	501	GTP	C3'-C4'-C5'-O5'
107	UO	501	GTP	O4'-C4'-C5'-O5'
107	VC	501	GTP	C3'-C4'-C5'-O5'
107	VM	501	GTP	O4'-C4'-C5'-O5'
107	WW	501	GTP	C3'-C4'-C5'-O5'
109	AR	501	GDP	C3'-C4'-C5'-O5'
109	CX	501	GDP	C3'-C4'-C5'-O5'
109	ED	501	GDP	C3'-C4'-C5'-O5'
109	FL	501	GDP	C3'-C4'-C5'-O5'
109	FZ	501	GDP	O4'-C4'-C5'-O5'
109	LT	501	GDP	O4'-C4'-C5'-O5'
109	RL	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
109	SB	501	GDP	O4'-C4'-C5'-O5'
109	TH	501	GDP	C3'-C4'-C5'-O5'
107	HW	501	GTP	C4'-C5'-O5'-PA
107	IA	501	GTP	C4'-C5'-O5'-PA
107	LG	501	GTP	C4'-C5'-O5'-PA
107	LI	501	GTP	C4'-C5'-O5'-PA
107	MW	501	GTP	C4'-C5'-O5'-PA
107	NQ	501	GTP	C4'-C5'-O5'-PA
107	NW	501	GTP	C4'-C5'-O5'-PA
107	OY	501	GTP	C4'-C5'-O5'-PA
107	SQ	501	GTP	C4'-C5'-O5'-PA
107	UO	501	GTP	C4'-C5'-O5'-PA
107	AZ	501	GTP	C3'-C4'-C5'-O5'
107	BA	501	GTP	C3'-C4'-C5'-O5'
107	BU	501	GTP	O4'-C4'-C5'-O5'
107	CS	501	GTP	O4'-C4'-C5'-O5'
107	DS	501	GTP	C3'-C4'-C5'-O5'
107	IA	501	GTP	C3'-C4'-C5'-O5'
107	LE	501	GTP	C3'-C4'-C5'-O5'
107	ND	502	GTP	C3'-C4'-C5'-O5'
107	WA	501	GTP	C3'-C4'-C5'-O5'
107	IQ	501	GTP	C4'-C5'-O5'-PA
107	LW	501	GTP	C4'-C5'-O5'-PA
107	LY	501	GTP	C4'-C5'-O5'-PA
107	CQ	501	GTP	PA-O3A-PB-O1B
107	CQ	501	GTP	PB-O3A-PA-O1A
107	FN	502	GTP	PA-O3A-PB-O1B
107	FS	501	GTP	PA-O3A-PB-O1B
107	HC	501	GTP	PA-O3A-PB-O1B
107	HQ	501	GTP	PA-O3A-PB-O1B
107	HU	501	GTP	PA-O3A-PB-O1B
107	KN	502	GTP	PA-O3A-PB-O1B
107	ME	501	GTP	PB-O3A-PA-O1A
107	MN	502	GTP	PB-O3A-PA-O1A
107	NU	501	GTP	PB-O3A-PA-O1A
107	PE	501	GTP	PA-O3A-PB-O1B
107	PS	501	GTP	PA-O3A-PB-O1B
107	PT	502	GTP	PA-O3A-PB-O1B
107	RF	502	GTP	PA-O3A-PB-O1B
107	TI	501	GTP	PA-O3A-PB-O1B
107	TK	501	GTP	PA-O3A-PB-O1B
107	TN	502	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
107	TW	501	GTP	PA-O3A-PB-O1B
107	UG	501	GTP	PB-O3A-PA-O1A
107	VN	502	GTP	PA-O3A-PB-O1B
107	TE	501	GTP	C3'-C4'-C5'-O5'
109	EB	501	GDP	C3'-C4'-C5'-O5'
109	KR	501	GDP	O4'-C4'-C5'-O5'
109	LR	501	GDP	C3'-C4'-C5'-O5'
109	TV	501	GDP	C3'-C4'-C5'-O5'
107	DM	501	GTP	C4'-C5'-O5'-PA
107	FI	501	GTP	C4'-C5'-O5'-PA
107	GE	501	GTP	C4'-C5'-O5'-PA
107	IC	501	GTP	C4'-C5'-O5'-PA
107	IG	501	GTP	C4'-C5'-O5'-PA
107	IM	501	GTP	C4'-C5'-O5'-PA
107	JI	501	GTP	C4'-C5'-O5'-PA
107	LC	501	GTP	C4'-C5'-O5'-PA
107	LO	501	GTP	C4'-C5'-O5'-PA
107	MN	502	GTP	C4'-C5'-O5'-PA
107	NI	501	GTP	C4'-C5'-O5'-PA
107	NK	501	GTP	C4'-C5'-O5'-PA
107	NL	502	GTP	C4'-C5'-O5'-PA
107	OG	501	GTP	C4'-C5'-O5'-PA
107	OQ	501	GTP	C4'-C5'-O5'-PA
107	OW	501	GTP	C4'-C5'-O5'-PA
107	QL	502	GTP	C4'-C5'-O5'-PA
107	QX	502	GTP	C4'-C5'-O5'-PA
107	SK	501	GTP	C4'-C5'-O5'-PA
107	SL	502	GTP	C4'-C5'-O5'-PA
107	TW	501	GTP	C4'-C5'-O5'-PA
107	UI	501	GTP	C4'-C5'-O5'-PA
107	UM	501	GTP	C4'-C5'-O5'-PA
107	UW	501	GTP	C4'-C5'-O5'-PA
107	VI	501	GTP	C4'-C5'-O5'-PA
107	AW	501	GTP	O4'-C4'-C5'-O5'
107	HN	502	GTP	O4'-C4'-C5'-O5'
107	PS	501	GTP	O4'-C4'-C5'-O5'
107	PT	502	GTP	O4'-C4'-C5'-O5'
107	VC	501	GTP	O4'-C4'-C5'-O5'
109	ED	501	GDP	O4'-C4'-C5'-O5'
107	AS	501	GTP	C4'-C5'-O5'-PA
107	BS	501	GTP	C4'-C5'-O5'-PA
107	CI	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
107	CW	501	GTP	C4'-C5'-O5'-PA
107	DC	501	GTP	C4'-C5'-O5'-PA
107	DG	501	GTP	C4'-C5'-O5'-PA
107	DQ	501	GTP	C4'-C5'-O5'-PA
107	DU	501	GTP	C4'-C5'-O5'-PA
107	EE	501	GTP	C4'-C5'-O5'-PA
107	EI	501	GTP	C4'-C5'-O5'-PA
107	EW	501	GTP	C4'-C5'-O5'-PA
107	FM	501	GTP	C4'-C5'-O5'-PA
107	FN	502	GTP	C4'-C5'-O5'-PA
107	FQ	501	GTP	C4'-C5'-O5'-PA
107	GQ	501	GTP	C4'-C5'-O5'-PA
107	HS	501	GTP	C4'-C5'-O5'-PA
107	IU	501	GTP	C4'-C5'-O5'-PA
107	JW	501	GTP	C4'-C5'-O5'-PA
107	JY	501	GTP	C4'-C5'-O5'-PA
107	LM	501	GTP	C4'-C5'-O5'-PA
107	ME	501	GTP	C4'-C5'-O5'-PA
107	NC	501	GTP	C4'-C5'-O5'-PA
107	OC	501	GTP	C4'-C5'-O5'-PA
107	QD	502	GTP	C4'-C5'-O5'-PA
107	QK	501	GTP	C4'-C5'-O5'-PA
107	QO	501	GTP	C4'-C5'-O5'-PA
107	RM	501	GTP	C4'-C5'-O5'-PA
107	SE	501	GTP	C4'-C5'-O5'-PA
107	SI	501	GTP	C4'-C5'-O5'-PA
107	SU	501	GTP	C4'-C5'-O5'-PA
107	TI	501	GTP	C4'-C5'-O5'-PA
107	TK	501	GTP	C4'-C5'-O5'-PA
107	TS	501	GTP	C4'-C5'-O5'-PA
107	UK	501	GTP	C4'-C5'-O5'-PA
107	UQ	501	GTP	C4'-C5'-O5'-PA
107	UY	501	GTP	C4'-C5'-O5'-PA
107	AC	501	GTP	PB-O3A-PA-O5'
107	AE	501	GTP	PB-O3A-PA-O5'
107	AK	501	GTP	PB-O3A-PA-O5'
107	AM	501	GTP	PB-O3A-PA-O5'
107	AQ	501	GTP	PB-O3A-PA-O5'
107	AS	501	GTP	PB-O3A-PA-O5'
107	BC	501	GTP	PB-O3A-PA-O5'
107	BG	501	GTP	PB-O3A-PA-O5'
107	BI	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
107	BK	501	GTP	PB-O3A-PA-O5'
107	BM	501	GTP	PB-O3A-PA-O5'
107	BQ	501	GTP	PB-O3A-PA-O5'
107	BS	501	GTP	PB-O3A-PA-O5'
107	BU	501	GTP	PB-O3A-PA-O5'
107	BW	501	GTP	PB-O3A-PA-O5'
107	BY	501	GTP	PB-O3A-PA-O5'
107	CK	501	GTP	PB-O3A-PA-O5'
107	CO	501	GTP	PB-O3A-PA-O5'
107	CQ	501	GTP	PB-O3A-PA-O5'
107	CY	501	GTP	PB-O3A-PA-O5'
107	FE	501	GTP	PB-O3A-PA-O5'
107	FS	501	GTP	PB-O3A-PA-O5'
107	FU	501	GTP	PB-O3A-PA-O5'
107	HA	501	GTP	PB-O3A-PA-O5'
107	HC	501	GTP	PB-O3A-PA-O5'
107	HF	502	GTP	PB-O3A-PA-O5'
107	HI	501	GTP	PB-O3A-PA-O5'
107	HK	501	GTP	PB-O3A-PA-O5'
107	HN	502	GTP	PB-O3A-PA-O5'
107	HQ	501	GTP	PB-O3A-PA-O5'
107	HU	501	GTP	PB-O3A-PA-O5'
107	HY	501	GTP	PB-O3A-PA-O5'
107	KS	501	GTP	PB-O3A-PA-O5'
107	KY	501	GTP	PB-O3A-PA-O5'
107	MC	501	GTP	PB-O3A-PA-O5'
107	ME	501	GTP	PB-O3A-PA-O5'
107	MG	501	GTP	PB-O3A-PA-O5'
107	MS	501	GTP	PB-O3A-PA-O5'
107	MT	502	GTP	PB-O3A-PA-O5'
107	ND	502	GTP	PB-O3A-PA-O5'
107	OA	501	GTP	PB-O3A-PA-O5'
107	PM	501	GTP	PB-O3A-PA-O5'
107	PS	501	GTP	PB-O3A-PA-O5'
107	PT	502	GTP	PB-O3A-PA-O5'
107	PY	501	GTP	PB-O3A-PA-O5'
107	RK	501	GTP	PB-O3A-PA-O5'
107	TE	501	GTP	PB-O3A-PA-O5'
107	TQ	501	GTP	PB-O3A-PA-O5'
107	TS	501	GTP	PB-O3A-PA-O5'
107	VC	501	GTP	PB-O3A-PA-O5'
107	VE	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
107	VM	501	GTP	PB-O3A-PA-O5'
107	VQ	501	GTP	PB-O3A-PA-O5'
107	VU	501	GTP	PB-O3A-PA-O5'
107	VY	501	GTP	PB-O3A-PA-O5'
107	WC	501	GTP	PB-O3A-PA-O5'
107	WG	501	GTP	PB-O3A-PA-O5'
107	WU	501	GTP	PB-O3A-PA-O5'
107	WW	501	GTP	PB-O3A-PA-O5'
107	FW	501	GTP	O4'-C4'-C5'-O5'
107	NO	501	GTP	O4'-C4'-C5'-O5'
107	PK	501	GTP	O4'-C4'-C5'-O5'
109	FL	501	GDP	O4'-C4'-C5'-O5'
109	TH	501	GDP	O4'-C4'-C5'-O5'
107	BG	501	GTP	C4'-C5'-O5'-PA
107	EG	501	GTP	C4'-C5'-O5'-PA
107	EQ	501	GTP	C4'-C5'-O5'-PA
107	ES	501	GTP	C4'-C5'-O5'-PA
107	FU	501	GTP	C4'-C5'-O5'-PA
107	HE	501	GTP	C4'-C5'-O5'-PA
107	HF	502	GTP	C4'-C5'-O5'-PA
107	HI	501	GTP	C4'-C5'-O5'-PA
107	HQ	501	GTP	C4'-C5'-O5'-PA
107	JC	501	GTP	C4'-C5'-O5'-PA
107	JQ	501	GTP	C4'-C5'-O5'-PA
107	KE	501	GTP	C4'-C5'-O5'-PA
107	KF	502	GTP	C4'-C5'-O5'-PA
107	KU	501	GTP	C4'-C5'-O5'-PA
107	MG	501	GTP	C4'-C5'-O5'-PA
107	NA	501	GTP	C4'-C5'-O5'-PA
107	PA	501	GTP	C4'-C5'-O5'-PA
107	PN	502	GTP	C4'-C5'-O5'-PA
107	PS	501	GTP	C4'-C5'-O5'-PA
107	QA	501	GTP	C4'-C5'-O5'-PA
107	QQ	501	GTP	C4'-C5'-O5'-PA
107	RN	502	GTP	C4'-C5'-O5'-PA
107	TB	502	GTP	C4'-C5'-O5'-PA
107	TG	501	GTP	C4'-C5'-O5'-PA
107	TN	502	GTP	C4'-C5'-O5'-PA
107	TU	501	GTP	C4'-C5'-O5'-PA
107	UC	501	GTP	C4'-C5'-O5'-PA
107	VS	501	GTP	C4'-C5'-O5'-PA
107	VU	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
107	LG	501	GTP	PB-O3B-PG-O3G
107	LU	501	GTP	PB-O3B-PG-O2G
107	LU	501	GTP	PB-O3B-PG-O3G
107	OI	501	GTP	PB-O3B-PG-O2G
107	CI	501	GTP	C5'-O5'-PA-O3A
107	EM	501	GTP	C5'-O5'-PA-O3A
107	FW	501	GTP	C5'-O5'-PA-O3A
107	GM	501	GTP	C5'-O5'-PA-O3A
107	GR	502	GTP	C5'-O5'-PA-O3A
107	GX	502	GTP	C5'-O5'-PA-O3A
107	HW	501	GTP	C5'-O5'-PA-O3A
107	IO	501	GTP	C5'-O5'-PA-O3A
107	IQ	501	GTP	C5'-O5'-PA-O3A
107	KF	502	GTP	C5'-O5'-PA-O3A
107	KN	502	GTP	C5'-O5'-PA-O3A
107	LS	501	GTP	C5'-O5'-PA-O3A
107	NA	501	GTP	C5'-O5'-PA-O3A
107	QG	501	GTP	C5'-O5'-PA-O3A
107	SC	501	GTP	C5'-O5'-PA-O3A
107	TB	502	GTP	C5'-O5'-PA-O3A
107	UG	501	GTP	C5'-O5'-PA-O3A
107	UQ	501	GTP	C5'-O5'-PA-O3A
107	UU	501	GTP	C5'-O5'-PA-O3A
107	VC	501	GTP	C5'-O5'-PA-O3A
109	BF	501	GDP	C5'-O5'-PA-O3A
109	DH	501	GDP	C5'-O5'-PA-O3A
107	AZ	501	GTP	O4'-C4'-C5'-O5'
107	AI	501	GTP	O4'-C4'-C5'-O5'
107	IM	501	GTP	C3'-C4'-C5'-O5'
107	PN	502	GTP	C3'-C4'-C5'-O5'
107	PQ	501	GTP	C3'-C4'-C5'-O5'
107	PY	501	GTP	O4'-C4'-C5'-O5'
107	TU	501	GTP	C3'-C4'-C5'-O5'
107	WA	501	GTP	O4'-C4'-C5'-O5'
107	WW	501	GTP	O4'-C4'-C5'-O5'
109	CZ	501	GDP	C3'-C4'-C5'-O5'
109	RL	501	GDP	O4'-C4'-C5'-O5'
107	CC	501	GTP	PA-O3A-PB-O2B
107	FG	501	GTP	PA-O3A-PB-O2B
107	FY	501	GTP	PA-O3A-PB-O1B
107	GR	502	GTP	PA-O3A-PB-O2B
107	GU	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
107	GX	502	GTP	PA-O3A-PB-O2B
107	HW	501	GTP	PA-O3A-PB-O2B
107	HW	501	GTP	PB-O3A-PA-O2A
107	JD	502	GTP	PA-O3A-PB-O2B
107	KC	501	GTP	PA-O3A-PB-O1B
107	KI	501	GTP	PA-O3A-PB-O2B
107	KM	501	GTP	PA-O3A-PB-O2B
107	MM	501	GTP	PA-O3A-PB-O2B
107	MW	501	GTP	PA-O3A-PB-O2B
107	PG	501	GTP	PA-O3A-PB-O2B
107	PN	502	GTP	PA-O3A-PB-O2B
107	RC	501	GTP	PA-O3A-PB-O2B
107	RI	501	GTP	PA-O3A-PB-O2B
107	RK	501	GTP	PA-O3A-PB-O1B
107	RN	502	GTP	PA-O3A-PB-O1B
107	TY	501	GTP	PA-O3A-PB-O1B
107	UU	501	GTP	PA-O3A-PB-O2B
107	VG	501	GTP	PA-O3A-PB-O2B
107	VI	501	GTP	PA-O3A-PB-O1B
107	VW	501	GTP	PA-O3A-PB-O2B
107	AK	501	GTP	C4'-C5'-O5'-PA
107	CC	501	GTP	C4'-C5'-O5'-PA
107	CG	501	GTP	C4'-C5'-O5'-PA
107	CK	501	GTP	C4'-C5'-O5'-PA
107	CQ	501	GTP	C4'-C5'-O5'-PA
107	CU	501	GTP	C4'-C5'-O5'-PA
107	CY	501	GTP	C4'-C5'-O5'-PA
107	DO	501	GTP	C4'-C5'-O5'-PA
107	EK	501	GTP	C4'-C5'-O5'-PA
107	EM	501	GTP	C4'-C5'-O5'-PA
107	EO	501	GTP	C4'-C5'-O5'-PA
107	EU	501	GTP	C4'-C5'-O5'-PA
107	FC	501	GTP	C4'-C5'-O5'-PA
107	FE	501	GTP	C4'-C5'-O5'-PA
107	FG	501	GTP	C4'-C5'-O5'-PA
107	FS	501	GTP	C4'-C5'-O5'-PA
107	GG	501	GTP	C4'-C5'-O5'-PA
107	GI	501	GTP	C4'-C5'-O5'-PA
107	GR	502	GTP	C4'-C5'-O5'-PA
107	GU	501	GTP	C4'-C5'-O5'-PA
107	GW	501	GTP	C4'-C5'-O5'-PA
107	HC	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
107	HM	501	GTP	C4'-C5'-O5'-PA
107	HN	502	GTP	C4'-C5'-O5'-PA
107	HU	501	GTP	C4'-C5'-O5'-PA
107	JJ	502	GTP	C4'-C5'-O5'-PA
107	JU	501	GTP	C4'-C5'-O5'-PA
107	KC	501	GTP	C4'-C5'-O5'-PA
107	KM	501	GTP	C4'-C5'-O5'-PA
107	KN	502	GTP	C4'-C5'-O5'-PA
107	KQ	501	GTP	C4'-C5'-O5'-PA
107	KS	501	GTP	C4'-C5'-O5'-PA
107	LS	501	GTP	C4'-C5'-O5'-PA
107	MC	501	GTP	C4'-C5'-O5'-PA
107	MQ	501	GTP	C4'-C5'-O5'-PA
107	MS	501	GTP	C4'-C5'-O5'-PA
107	MT	502	GTP	C4'-C5'-O5'-PA
107	ND	502	GTP	C4'-C5'-O5'-PA
107	NG	501	GTP	C4'-C5'-O5'-PA
107	NU	501	GTP	C4'-C5'-O5'-PA
107	OA	501	GTP	C4'-C5'-O5'-PA
107	PC	501	GTP	C4'-C5'-O5'-PA
107	PE	501	GTP	C4'-C5'-O5'-PA
107	PM	501	GTP	C4'-C5'-O5'-PA
107	PQ	501	GTP	C4'-C5'-O5'-PA
107	PT	502	GTP	C4'-C5'-O5'-PA
107	QC	501	GTP	C4'-C5'-O5'-PA
107	QG	501	GTP	C4'-C5'-O5'-PA
107	QI	501	GTP	C4'-C5'-O5'-PA
107	QR	502	GTP	C4'-C5'-O5'-PA
107	QU	501	GTP	C4'-C5'-O5'-PA
107	QW	501	GTP	C4'-C5'-O5'-PA
107	RA	501	GTP	C4'-C5'-O5'-PA
107	RC	501	GTP	C4'-C5'-O5'-PA
107	RE	501	GTP	C4'-C5'-O5'-PA
107	RF	502	GTP	C4'-C5'-O5'-PA
107	RQ	501	GTP	C4'-C5'-O5'-PA
107	RS	501	GTP	C4'-C5'-O5'-PA
107	RT	502	GTP	C4'-C5'-O5'-PA
107	SC	501	GTP	C4'-C5'-O5'-PA
107	SG	501	GTP	C4'-C5'-O5'-PA
107	SR	502	GTP	C4'-C5'-O5'-PA
107	SW	501	GTP	C4'-C5'-O5'-PA
107	TE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
107	TM	501	GTP	C4'-C5'-O5'-PA
107	TQ	501	GTP	C4'-C5'-O5'-PA
107	TY	501	GTP	C4'-C5'-O5'-PA
107	UE	501	GTP	C4'-C5'-O5'-PA
107	UG	501	GTP	C4'-C5'-O5'-PA
107	UU	501	GTP	C4'-C5'-O5'-PA
107	VC	501	GTP	C4'-C5'-O5'-PA
107	VE	501	GTP	C4'-C5'-O5'-PA
107	VG	501	GTP	C4'-C5'-O5'-PA
107	VM	501	GTP	C4'-C5'-O5'-PA
107	VN	502	GTP	C4'-C5'-O5'-PA
107	VQ	501	GTP	C4'-C5'-O5'-PA
107	CE	501	GTP	C5'-O5'-PA-O1A
107	CS	501	GTP	C5'-O5'-PA-O1A
107	CY	501	GTP	C5'-O5'-PA-O1A
107	DC	501	GTP	C5'-O5'-PA-O2A
107	DG	501	GTP	C5'-O5'-PA-O1A
107	DI	501	GTP	C5'-O5'-PA-O2A
107	DK	501	GTP	C5'-O5'-PA-O2A
107	DQ	501	GTP	C5'-O5'-PA-O2A
107	DS	501	GTP	C5'-O5'-PA-O1A
107	DW	501	GTP	C5'-O5'-PA-O2A
107	DY	501	GTP	C5'-O5'-PA-O2A
107	EE	501	GTP	C5'-O5'-PA-O2A
107	ES	501	GTP	C5'-O5'-PA-O2A
107	EW	501	GTP	C5'-O5'-PA-O2A
107	EY	501	GTP	C5'-O5'-PA-O2A
107	FG	501	GTP	C5'-O5'-PA-O2A
107	FK	501	GTP	C5'-O5'-PA-O1A
107	FM	501	GTP	C5'-O5'-PA-O2A
107	FN	502	GTP	C5'-O5'-PA-O2A
107	FS	501	GTP	C5'-O5'-PA-O2A
107	FU	501	GTP	C5'-O5'-PA-O2A
107	GC	501	GTP	C5'-O5'-PA-O2A
107	GE	501	GTP	C5'-O5'-PA-O2A
107	GI	501	GTP	C5'-O5'-PA-O1A
107	GK	501	GTP	C5'-O5'-PA-O2A
107	HF	502	GTP	C5'-O5'-PA-O1A
107	HS	501	GTP	C5'-O5'-PA-O2A
107	IU	501	GTP	C5'-O5'-PA-O2A
107	JC	501	GTP	C5'-O5'-PA-O2A
107	JG	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
107	JJ	502	GTP	C5'-O5'-PA-O2A
107	JY	501	GTP	C5'-O5'-PA-O2A
107	KC	501	GTP	C5'-O5'-PA-O2A
107	KE	501	GTP	C5'-O5'-PA-O2A
107	KI	501	GTP	C5'-O5'-PA-O2A
107	KK	501	GTP	C5'-O5'-PA-O1A
107	KS	501	GTP	C5'-O5'-PA-O2A
107	KU	501	GTP	C5'-O5'-PA-O2A
107	KW	501	GTP	C5'-O5'-PA-O2A
107	LE	501	GTP	C5'-O5'-PA-O2A
107	LG	501	GTP	C5'-O5'-PA-O2A
107	LM	501	GTP	C5'-O5'-PA-O2A
107	LW	501	GTP	C5'-O5'-PA-O2A
107	ME	501	GTP	C5'-O5'-PA-O2A
107	MN	502	GTP	C5'-O5'-PA-O2A
107	NK	501	GTP	C5'-O5'-PA-O2A
107	NO	501	GTP	C5'-O5'-PA-O2A
107	NQ	501	GTP	C5'-O5'-PA-O2A
107	OI	501	GTP	C5'-O5'-PA-O2A
107	OS	501	GTP	C5'-O5'-PA-O2A
107	OU	501	GTP	C5'-O5'-PA-O2A
107	OY	501	GTP	C5'-O5'-PA-O2A
107	PW	501	GTP	C5'-O5'-PA-O2A
107	QI	501	GTP	C5'-O5'-PA-O2A
107	QQ	501	GTP	C5'-O5'-PA-O2A
107	QW	501	GTP	C5'-O5'-PA-O2A
107	QX	502	GTP	C5'-O5'-PA-O2A
107	RA	501	GTP	C5'-O5'-PA-O2A
107	RC	501	GTP	C5'-O5'-PA-O2A
107	RI	501	GTP	C5'-O5'-PA-O2A
107	RM	501	GTP	C5'-O5'-PA-O2A
107	RQ	501	GTP	C5'-O5'-PA-O2A
107	RS	501	GTP	C5'-O5'-PA-O2A
107	RY	501	GTP	C5'-O5'-PA-O1A
107	SG	501	GTP	C5'-O5'-PA-O2A
107	SI	501	GTP	C5'-O5'-PA-O2A
107	SL	502	GTP	C5'-O5'-PA-O2A
107	SO	501	GTP	C5'-O5'-PA-O2A
107	SQ	501	GTP	C5'-O5'-PA-O2A
107	SW	501	GTP	C5'-O5'-PA-O2A
107	SX	502	GTP	C5'-O5'-PA-O2A
107	TK	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
107	TS	501	GTP	C5'-O5'-PA-O2A
107	TY	501	GTP	C5'-O5'-PA-O1A
107	UE	501	GTP	C5'-O5'-PA-O1A
107	UI	501	GTP	C5'-O5'-PA-O2A
107	US	501	GTP	C5'-O5'-PA-O2A
107	UW	501	GTP	C5'-O5'-PA-O2A
107	VW	501	GTP	C5'-O5'-PA-O2A
107	WI	501	GTP	C5'-O5'-PA-O1A
109	CN	501	GDP	C5'-O5'-PA-O1A
109	PF	501	GDP	C5'-O5'-PA-O1A
107	AO	501	GTP	C3'-C4'-C5'-O5'
107	BA	501	GTP	O4'-C4'-C5'-O5'
107	BO	501	GTP	C3'-C4'-C5'-O5'
107	DY	501	GTP	C3'-C4'-C5'-O5'
107	EK	501	GTP	C3'-C4'-C5'-O5'
107	ID	502	GTP	C3'-C4'-C5'-O5'
107	IO	501	GTP	O4'-C4'-C5'-O5'
107	IY	501	GTP	O4'-C4'-C5'-O5'
107	LQ	501	GTP	C3'-C4'-C5'-O5'
107	ND	502	GTP	O4'-C4'-C5'-O5'
107	OC	501	GTP	C3'-C4'-C5'-O5'
107	PA	501	GTP	C3'-C4'-C5'-O5'
107	UM	501	GTP	C3'-C4'-C5'-O5'
109	CX	501	GDP	O4'-C4'-C5'-O5'
109	GB	501	GDP	C3'-C4'-C5'-O5'
109	RR	501	GDP	C3'-C4'-C5'-O5'
109	SD	501	GDP	C3'-C4'-C5'-O5'
107	BC	501	GTP	C4'-C5'-O5'-PA
107	GX	502	GTP	C4'-C5'-O5'-PA
107	JD	502	GTP	C4'-C5'-O5'-PA
107	JO	501	GTP	C4'-C5'-O5'-PA
107	LK	501	GTP	C4'-C5'-O5'-PA
107	MM	501	GTP	C4'-C5'-O5'-PA
107	PG	501	GTP	C4'-C5'-O5'-PA
107	PK	501	GTP	C4'-C5'-O5'-PA
107	AQ	501	GTP	C3'-C4'-C5'-O5'
107	DS	501	GTP	O4'-C4'-C5'-O5'
107	GM	501	GTP	O4'-C4'-C5'-O5'
107	HK	501	GTP	C3'-C4'-C5'-O5'
107	HM	501	GTP	C3'-C4'-C5'-O5'
107	IK	501	GTP	C3'-C4'-C5'-O5'
107	LC	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
107	NA	501	GTP	C3'-C4'-C5'-O5'
107	OS	501	GTP	C3'-C4'-C5'-O5'
107	RW	501	GTP	C3'-C4'-C5'-O5'
107	SO	501	GTP	C3'-C4'-C5'-O5'
107	TE	501	GTP	O4'-C4'-C5'-O5'
109	AR	501	GDP	O4'-C4'-C5'-O5'
109	CL	501	GDP	C3'-C4'-C5'-O5'
109	EB	501	GDP	O4'-C4'-C5'-O5'
109	TR	501	GDP	C3'-C4'-C5'-O5'
109	TT	501	GDP	C3'-C4'-C5'-O5'
109	TV	501	GDP	O4'-C4'-C5'-O5'
107	AC	501	GTP	C4'-C5'-O5'-PA
107	AQ	501	GTP	C4'-C5'-O5'-PA
107	AU	501	GTP	C4'-C5'-O5'-PA
107	BA	501	GTP	C4'-C5'-O5'-PA
107	BK	501	GTP	C4'-C5'-O5'-PA
107	BW	501	GTP	C4'-C5'-O5'-PA
107	EY	501	GTP	C4'-C5'-O5'-PA
107	HA	501	GTP	C4'-C5'-O5'-PA
107	WG	501	GTP	C4'-C5'-O5'-PA
107	IG	501	GTP	C3'-C4'-C5'-O5'
107	OI	501	GTP	C3'-C4'-C5'-O5'
107	SX	502	GTP	C3'-C4'-C5'-O5'
109	GD	501	GDP	C3'-C4'-C5'-O5'
109	MV	501	GDP	C3'-C4'-C5'-O5'
107	CK	501	GTP	PA-O3A-PB-O2B
107	CW	501	GTP	PB-O3A-PA-O2A
107	CY	501	GTP	PA-O3A-PB-O2B
107	DG	501	GTP	PB-O3A-PA-O2A
107	DU	501	GTP	PB-O3A-PA-O2A
107	FC	501	GTP	PA-O3A-PB-O1B
107	FE	501	GTP	PA-O3A-PB-O1B
107	FI	501	GTP	PA-O3A-PB-O1B
107	FM	501	GTP	PA-O3A-PB-O2B
107	FQ	501	GTP	PA-O3A-PB-O1B
107	FU	501	GTP	PA-O3A-PB-O2B
107	FW	501	GTP	PA-O3A-PB-O1B
107	FW	501	GTP	PA-O3A-PB-O2B
107	FW	501	GTP	PB-O3A-PA-O2A
107	GI	501	GTP	PB-O3A-PA-O2A
107	GW	501	GTP	PB-O3A-PA-O2A
107	HI	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
107	HM	501	GTP	PB-O3A-PA-O1A
107	JR	502	GTP	PB-O3A-PA-O2A
107	KE	501	GTP	PA-O3A-PB-O1B
107	KF	502	GTP	PA-O3A-PB-O2B
107	KI	501	GTP	PB-O3A-PA-O1A
107	KQ	501	GTP	PA-O3A-PB-O2B
107	KS	501	GTP	PA-O3A-PB-O1B
107	KW	501	GTP	PA-O3A-PB-O2B
107	KW	501	GTP	PB-O3A-PA-O1A
107	MC	501	GTP	PA-O3A-PB-O2B
107	MG	501	GTP	PA-O3A-PB-O2B
107	MI	501	GTP	PA-O3A-PB-O2B
107	MN	502	GTP	PA-O3A-PB-O2B
107	MQ	501	GTP	PA-O3A-PB-O2B
107	MS	501	GTP	PA-O3A-PB-O2B
107	NA	501	GTP	PA-O3A-PB-O1B
107	ND	502	GTP	PA-O3A-PB-O1B
107	NG	501	GTP	PB-O3A-PA-O2A
107	NL	502	GTP	PB-O3A-PA-O2A
107	OA	501	GTP	PA-O3A-PB-O1B
107	OC	501	GTP	PA-O3A-PB-O2B
107	PA	501	GTP	PA-O3A-PB-O2B
107	PC	501	GTP	PA-O3A-PB-O2B
107	PI	501	GTP	PA-O3A-PB-O2B
107	PM	501	GTP	PA-O3A-PB-O1B
107	PQ	501	GTP	PA-O3A-PB-O2B
107	RA	501	GTP	PA-O3A-PB-O2B
107	RE	501	GTP	PA-O3A-PB-O2B
107	RI	501	GTP	PB-O3A-PA-O2A
107	RS	501	GTP	PA-O3A-PB-O2B
107	RT	502	GTP	PA-O3A-PB-O2B
107	RT	502	GTP	PB-O3A-PA-O1A
107	RW	501	GTP	PA-O3A-PB-O2B
107	RW	501	GTP	PB-O3A-PA-O2A
107	RY	501	GTP	PA-O3A-PB-O1B
107	SG	501	GTP	PB-O3A-PA-O2A
107	SR	502	GTP	PA-O3A-PB-O2B
107	TB	502	GTP	PA-O3A-PB-O2B
107	TG	501	GTP	PA-O3A-PB-O2B
107	TM	501	GTP	PA-O3A-PB-O1B
107	TQ	501	GTP	PA-O3A-PB-O1B
107	VC	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
107	VI	501	GTP	PB-O3A-PA-O1A
107	VI	501	GTP	PB-O3A-PA-O2A
107	VM	501	GTP	PB-O3A-PA-O1A
107	VQ	501	GTP	PA-O3A-PB-O2B
107	VS	501	GTP	PB-O3A-PA-O1A
107	AZ	501	GTP	C4'-C5'-O5'-PA
107	AI	501	GTP	C4'-C5'-O5'-PA
107	AO	501	GTP	C4'-C5'-O5'-PA
107	AW	501	GTP	C4'-C5'-O5'-PA
107	BE	501	GTP	C4'-C5'-O5'-PA
107	BI	501	GTP	C4'-C5'-O5'-PA
107	BO	501	GTP	C4'-C5'-O5'-PA
107	BQ	501	GTP	C4'-C5'-O5'-PA
107	BU	501	GTP	C4'-C5'-O5'-PA
107	EC	501	GTP	C4'-C5'-O5'-PA
107	KK	501	GTP	C4'-C5'-O5'-PA
107	WK	501	GTP	C4'-C5'-O5'-PA
107	WM	501	GTP	C4'-C5'-O5'-PA
107	WW	501	GTP	C4'-C5'-O5'-PA
107	DI	501	GTP	C3'-C4'-C5'-O5'
107	DK	501	GTP	C3'-C4'-C5'-O5'
107	GO	501	GTP	C3'-C4'-C5'-O5'
107	MI	501	GTP	O4'-C4'-C5'-O5'
107	OK	501	GTP	C3'-C4'-C5'-O5'
107	SE	501	GTP	C3'-C4'-C5'-O5'
107	WI	501	GTP	C3'-C4'-C5'-O5'
109	GF	501	GDP	C3'-C4'-C5'-O5'
109	MR	501	GDP	C3'-C4'-C5'-O5'
107	AG	501	GTP	C4'-C5'-O5'-PA
107	BM	501	GTP	C4'-C5'-O5'-PA
107	BY	501	GTP	C4'-C5'-O5'-PA
107	HY	501	GTP	C4'-C5'-O5'-PA
107	JR	502	GTP	C4'-C5'-O5'-PA
107	VY	501	GTP	C4'-C5'-O5'-PA
107	WO	501	GTP	C4'-C5'-O5'-PA
107	NC	501	GTP	C3'-C4'-C5'-O5'
109	CT	501	GDP	C3'-C4'-C5'-O5'
107	RF	502	GTP	PB-O3B-PG-O1G
107	AY	501	GTP	C4'-C5'-O5'-PA
107	PN	502	GTP	O4'-C4'-C5'-O5'
107	FC	501	GTP	PA-O3A-PB-O2B
107	FE	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
107	FI	501	GTP	PB-O3A-PA-O2A
107	FK	501	GTP	PA-O3A-PB-O1B
107	FM	501	GTP	PA-O3A-PB-O1B
107	FY	501	GTP	C4'-C5'-O5'-PA
107	KE	501	GTP	PA-O3A-PB-O2B
107	KI	501	GTP	PB-O3A-PA-O2A
107	KK	501	GTP	PA-O3A-PB-O1B
107	KS	501	GTP	PA-O3A-PB-O2B
107	KU	501	GTP	PA-O3A-PB-O1B
107	KY	501	GTP	PA-O3A-PB-O1B
107	LK	501	GTP	PB-O3A-PA-O1A
107	ME	501	GTP	PA-O3A-PB-O1B
107	MT	502	GTP	PA-O3A-PB-O1B
107	NA	501	GTP	PA-O3A-PB-O2B
107	PI	501	GTP	PA-O3A-PB-O1B
107	PS	501	GTP	PA-O3A-PB-O2B
107	PW	501	GTP	PA-O3A-PB-O2B
107	QA	501	GTP	PA-O3A-PB-O1B
107	RQ	501	GTP	PA-O3A-PB-O1B
107	TE	501	GTP	PA-O3A-PB-O1B
107	TG	501	GTP	PA-O3A-PB-O1B
107	TN	502	GTP	PA-O3A-PB-O2B
107	TS	501	GTP	PB-O3A-PA-O1A
107	TU	501	GTP	PA-O3A-PB-O1B
107	UG	501	GTP	PA-O3A-PB-O2B
107	VC	501	GTP	PA-O3A-PB-O1B
107	VI	501	GTP	PA-O3A-PB-O2B
107	VU	501	GTP	PB-O3A-PA-O1A
107	BO	501	GTP	O4'-C4'-C5'-O5'
107	NK	501	GTP	C3'-C4'-C5'-O5'
107	PA	501	GTP	O4'-C4'-C5'-O5'
107	PQ	501	GTP	O4'-C4'-C5'-O5'
107	SK	501	GTP	C3'-C4'-C5'-O5'
107	TB	502	GTP	C3'-C4'-C5'-O5'
107	TU	501	GTP	O4'-C4'-C5'-O5'
109	CZ	501	GDP	O4'-C4'-C5'-O5'
109	GB	501	GDP	O4'-C4'-C5'-O5'
109	LR	501	GDP	O4'-C4'-C5'-O5'
109	RR	501	GDP	O4'-C4'-C5'-O5'
107	BE	501	GTP	PB-O3A-PA-O5'
107	HM	501	GTP	PB-O3A-PA-O5'
107	PQ	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
107	VS	501	GTP	PB-O3A-PA-O5'
107	CO	501	GTP	C4'-C5'-O5'-PA
107	AO	501	GTP	O4'-C4'-C5'-O5'
107	DW	501	GTP	C3'-C4'-C5'-O5'
107	HK	501	GTP	O4'-C4'-C5'-O5'
107	LM	501	GTP	C3'-C4'-C5'-O5'
109	LB	501	GDP	C3'-C4'-C5'-O5'
109	SD	501	GDP	O4'-C4'-C5'-O5'
107	AC	501	GTP	C3'-C4'-C5'-O5'
107	CE	501	GTP	C3'-C4'-C5'-O5'
107	IA	501	GTP	O4'-C4'-C5'-O5'
107	LE	501	GTP	O4'-C4'-C5'-O5'
107	LO	501	GTP	C3'-C4'-C5'-O5'
107	MW	501	GTP	C3'-C4'-C5'-O5'
107	OU	501	GTP	C3'-C4'-C5'-O5'
107	OY	501	GTP	C3'-C4'-C5'-O5'
107	PG	501	GTP	C3'-C4'-C5'-O5'
109	LD	501	GDP	C3'-C4'-C5'-O5'
109	QR	501	GDP	C3'-C4'-C5'-O5'
109	RV	501	GDP	C3'-C4'-C5'-O5'
109	TR	501	GDP	O4'-C4'-C5'-O5'
109	TT	501	GDP	O4'-C4'-C5'-O5'
107	CE	501	GTP	PB-O3B-PG-O2G
107	CE	501	GTP	PB-O3B-PG-O3G
107	HF	502	GTP	PB-O3B-PG-O2G
107	LG	501	GTP	PB-O3B-PG-O2G
107	OS	501	GTP	PB-O3B-PG-O2G
107	RF	502	GTP	PB-O3B-PG-O2G
107	RF	502	GTP	PB-O3B-PG-O3G
107	AI	501	GTP	C5'-O5'-PA-O3A
107	AO	501	GTP	C5'-O5'-PA-O3A
107	AY	501	GTP	C5'-O5'-PA-O3A
107	BC	501	GTP	C5'-O5'-PA-O3A
107	BO	501	GTP	C5'-O5'-PA-O3A
107	BS	501	GTP	C5'-O5'-PA-O3A
107	BY	501	GTP	C5'-O5'-PA-O3A
107	CC	501	GTP	C5'-O5'-PA-O3A
107	CG	501	GTP	C5'-O5'-PA-O3A
107	CM	501	GTP	C5'-O5'-PA-O3A
107	CU	501	GTP	C5'-O5'-PA-O3A
107	CW	501	GTP	C5'-O5'-PA-O3A
107	DE	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
107	DO	501	GTP	C5'-O5'-PA-O3A
107	DU	501	GTP	C5'-O5'-PA-O3A
107	EC	501	GTP	C5'-O5'-PA-O3A
107	EI	501	GTP	C5'-O5'-PA-O3A
107	EO	501	GTP	C5'-O5'-PA-O3A
107	EQ	501	GTP	C5'-O5'-PA-O3A
107	FI	501	GTP	C5'-O5'-PA-O3A
107	GQ	501	GTP	C5'-O5'-PA-O3A
107	HI	501	GTP	C5'-O5'-PA-O3A
107	IC	501	GTP	C5'-O5'-PA-O3A
107	IG	501	GTP	C5'-O5'-PA-O3A
107	JD	502	GTP	C5'-O5'-PA-O3A
107	JI	501	GTP	C5'-O5'-PA-O3A
107	JO	501	GTP	C5'-O5'-PA-O3A
107	JQ	501	GTP	C5'-O5'-PA-O3A
107	JU	501	GTP	C5'-O5'-PA-O3A
107	MA	501	GTP	C5'-O5'-PA-O3A
107	MK	501	GTP	C5'-O5'-PA-O3A
107	MW	501	GTP	C5'-O5'-PA-O3A
107	NC	501	GTP	C5'-O5'-PA-O3A
107	ND	502	GTP	C5'-O5'-PA-O3A
107	NG	501	GTP	C5'-O5'-PA-O3A
107	NL	502	GTP	C5'-O5'-PA-O3A
107	OC	501	GTP	C5'-O5'-PA-O3A
107	OQ	501	GTP	C5'-O5'-PA-O3A
107	PN	502	GTP	C5'-O5'-PA-O3A
107	QC	501	GTP	C5'-O5'-PA-O3A
107	QD	502	GTP	C5'-O5'-PA-O3A
107	QU	501	GTP	C5'-O5'-PA-O3A
107	SK	501	GTP	C5'-O5'-PA-O3A
107	UC	501	GTP	C5'-O5'-PA-O3A
107	VI	501	GTP	C5'-O5'-PA-O3A
107	VN	502	GTP	C5'-O5'-PA-O3A
107	WK	501	GTP	C5'-O5'-PA-O3A
107	WS	501	GTP	C5'-O5'-PA-O3A
107	WW	501	GTP	C5'-O5'-PA-O3A
109	BJ	501	GDP	C5'-O5'-PA-O3A
109	CB	501	GDP	C5'-O5'-PA-O3A
109	CL	501	GDP	C5'-O5'-PA-O3A
109	CP	501	GDP	C5'-O5'-PA-O3A
109	CT	501	GDP	C5'-O5'-PA-O3A
109	DV	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
109	FD	501	GDP	C5'-O5'-PA-O3A
109	FL	501	GDP	C5'-O5'-PA-O3A
109	FP	501	GDP	C5'-O5'-PA-O3A
109	KP	501	GDP	C5'-O5'-PA-O3A
109	KR	501	GDP	C5'-O5'-PA-O3A
109	LL	501	GDP	C5'-O5'-PA-O3A
109	LT	501	GDP	C5'-O5'-PA-O3A
109	MD	501	GDP	C5'-O5'-PA-O3A
109	MT	501	GDP	C5'-O5'-PA-O3A
109	TT	501	GDP	C5'-O5'-PA-O3A
109	TZ	501	GDP	C5'-O5'-PA-O3A
109	WB	501	GDP	C5'-O5'-PA-O3A
109	WL	501	GDP	C5'-O5'-PA-O3A
109	WN	501	GDP	C5'-O5'-PA-O3A
107	MA	501	GTP	C4'-C5'-O5'-PA
107	AM	501	GTP	C3'-C4'-C5'-O5'
107	AQ	501	GTP	O4'-C4'-C5'-O5'
107	HI	501	GTP	C3'-C4'-C5'-O5'
107	HM	501	GTP	O4'-C4'-C5'-O5'
107	IC	501	GTP	C3'-C4'-C5'-O5'
107	LU	501	GTP	C3'-C4'-C5'-O5'
107	MQ	501	GTP	C3'-C4'-C5'-O5'
107	NA	501	GTP	O4'-C4'-C5'-O5'
107	QK	501	GTP	C3'-C4'-C5'-O5'
107	TS	501	GTP	C3'-C4'-C5'-O5'
109	CB	501	GDP	C3'-C4'-C5'-O5'
109	CD	501	GDP	C3'-C4'-C5'-O5'
109	CL	501	GDP	O4'-C4'-C5'-O5'
109	EP	501	GDP	C3'-C4'-C5'-O5'
109	GR	501	GDP	C3'-C4'-C5'-O5'
109	TL	501	GDP	C3'-C4'-C5'-O5'
107	CK	501	GTP	PA-O3A-PB-O1B
107	CQ	501	GTP	PA-O3A-PB-O2B
107	CW	501	GTP	PB-O3A-PA-O1A
107	EC	501	GTP	PB-O3A-PA-O1A
107	EC	501	GTP	PB-O3A-PA-O2A
107	FI	501	GTP	PB-O3A-PA-O1A
107	FQ	501	GTP	PA-O3A-PB-O2B
107	FW	501	GTP	PB-O3A-PA-O1A
107	GG	501	GTP	PB-O3A-PA-O2A
107	GR	502	GTP	PA-O3A-PB-O1B
107	GW	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
107	HC	501	GTP	PA-O3A-PB-O2B
107	HE	501	GTP	PB-O3A-PA-O1A
107	HQ	501	GTP	PA-O3A-PB-O2B
107	HU	501	GTP	PA-O3A-PB-O2B
107	HW	501	GTP	PA-O3A-PB-O1B
107	IC	501	GTP	PA-O3A-PB-O1B
107	IC	501	GTP	PA-O3A-PB-O2B
107	IG	501	GTP	PA-O3A-PB-O1B
107	IG	501	GTP	PA-O3A-PB-O2B
107	IQ	501	GTP	PA-O3A-PB-O2B
107	JD	502	GTP	PA-O3A-PB-O1B
107	KC	501	GTP	PA-O3A-PB-O2B
107	KF	502	GTP	PA-O3A-PB-O1B
107	KI	501	GTP	PA-O3A-PB-O1B
107	KM	501	GTP	PA-O3A-PB-O1B
107	KN	502	GTP	PA-O3A-PB-O2B
107	KQ	501	GTP	PA-O3A-PB-O1B
107	KU	501	GTP	PA-O3A-PB-O2B
107	MC	501	GTP	PA-O3A-PB-O1B
107	MG	501	GTP	PA-O3A-PB-O1B
107	MN	502	GTP	PB-O3A-PA-O2A
107	MQ	501	GTP	PA-O3A-PB-O1B
107	MS	501	GTP	PA-O3A-PB-O1B
107	MT	502	GTP	PA-O3A-PB-O2B
107	ND	502	GTP	PA-O3A-PB-O2B
107	NG	501	GTP	PB-O3A-PA-O1A
107	NL	502	GTP	PA-O3A-PB-O2B
107	PE	501	GTP	PA-O3A-PB-O2B
107	PM	501	GTP	PA-O3A-PB-O2B
107	PN	502	GTP	PA-O3A-PB-O1B
107	PQ	501	GTP	PA-O3A-PB-O1B
107	PT	502	GTP	PA-O3A-PB-O2B
107	PW	501	GTP	PA-O3A-PB-O1B
107	QA	501	GTP	PA-O3A-PB-O2B
107	RA	501	GTP	PA-O3A-PB-O1B
107	RC	501	GTP	PA-O3A-PB-O1B
107	RI	501	GTP	PB-O3A-PA-O1A
107	RM	501	GTP	PB-O3A-PA-O2A
107	RQ	501	GTP	PA-O3A-PB-O2B
107	RS	501	GTP	PA-O3A-PB-O1B
107	SG	501	GTP	PB-O3A-PA-O1A
107	TB	502	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
107	TI	501	GTP	PA-O3A-PB-O2B
107	TM	501	GTP	PA-O3A-PB-O2B
107	TQ	501	GTP	PA-O3A-PB-O2B
107	TU	501	GTP	PA-O3A-PB-O2B
107	UG	501	GTP	PA-O3A-PB-O1B
107	VE	501	GTP	PB-O3A-PA-O1A
107	VM	501	GTP	PA-O3A-PB-O1B
107	VN	502	GTP	PA-O3A-PB-O2B
107	VW	501	GTP	PA-O3A-PB-O1B
107	VW	501	GTP	PB-O3A-PA-O2A
107	MK	501	GTP	C4'-C5'-O5'-PA
107	RK	501	GTP	C4'-C5'-O5'-PA
107	RY	501	GTP	C4'-C5'-O5'-PA
107	AZ	501	GTP	C5'-O5'-PA-O1A
107	AM	501	GTP	C5'-O5'-PA-O1A
107	AW	501	GTP	C5'-O5'-PA-O1A
107	BE	501	GTP	C5'-O5'-PA-O1A
107	BI	501	GTP	C5'-O5'-PA-O1A
107	BU	501	GTP	C5'-O5'-PA-O1A
107	CO	501	GTP	C5'-O5'-PA-O1A
107	EG	501	GTP	C5'-O5'-PA-O2A
107	EK	501	GTP	C5'-O5'-PA-O1A
107	FK	501	GTP	C5'-O5'-PA-O2A
107	GO	501	GTP	C5'-O5'-PA-O2A
107	GW	501	GTP	C5'-O5'-PA-O1A
107	HA	501	GTP	C5'-O5'-PA-O1A
107	HY	501	GTP	C5'-O5'-PA-O1A
107	JM	501	GTP	C5'-O5'-PA-O2A
107	LI	501	GTP	C5'-O5'-PA-O2A
107	LQ	501	GTP	C5'-O5'-PA-O2A
107	LU	501	GTP	C5'-O5'-PA-O2A
107	LY	501	GTP	C5'-O5'-PA-O2A
107	RE	501	GTP	C5'-O5'-PA-O1A
107	SU	501	GTP	C5'-O5'-PA-O2A
107	VY	501	GTP	C5'-O5'-PA-O1A
107	WM	501	GTP	C5'-O5'-PA-O1A
107	WO	501	GTP	C5'-O5'-PA-O1A
107	WU	501	GTP	C5'-O5'-PA-O1A
109	AD	501	GDP	C5'-O5'-PA-O1A
109	AF	501	GDP	C5'-O5'-PA-O1A
109	AJ	501	GDP	C5'-O5'-PA-O1A
109	AL	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	AN	501	GDP	C5'-O5'-PA-O1A
109	AT	501	GDP	C5'-O5'-PA-O1A
109	AX	501	GDP	C5'-O5'-PA-O1A
109	BD	501	GDP	C5'-O5'-PA-O1A
109	BL	501	GDP	C5'-O5'-PA-O1A
109	BN	501	GDP	C5'-O5'-PA-O1A
109	BP	501	GDP	C5'-O5'-PA-O1A
109	BV	501	GDP	C5'-O5'-PA-O1A
109	BX	501	GDP	C5'-O5'-PA-O1A
109	CD	501	GDP	C5'-O5'-PA-O1A
109	CF	501	GDP	C5'-O5'-PA-O1A
109	CH	501	GDP	C5'-O5'-PA-O1A
109	CJ	501	GDP	C5'-O5'-PA-O1A
109	CR	501	GDP	C5'-O5'-PA-O1A
109	CX	501	GDP	C5'-O5'-PA-O1A
109	CZ	501	GDP	C5'-O5'-PA-O1A
109	DB	501	GDP	C5'-O5'-PA-O1A
109	DD	501	GDP	C5'-O5'-PA-O1A
109	DJ	501	GDP	C5'-O5'-PA-O1A
109	DL	501	GDP	C5'-O5'-PA-O1A
109	DN	501	GDP	C5'-O5'-PA-O1A
109	DP	501	GDP	C5'-O5'-PA-O1A
109	DR	501	GDP	C5'-O5'-PA-O1A
109	DT	501	GDP	C5'-O5'-PA-O1A
109	DX	501	GDP	C5'-O5'-PA-O1A
109	DZ	501	GDP	C5'-O5'-PA-O1A
109	EB	501	GDP	C5'-O5'-PA-O1A
109	ED	501	GDP	C5'-O5'-PA-O1A
109	EH	501	GDP	C5'-O5'-PA-O1A
109	EJ	501	GDP	C5'-O5'-PA-O1A
109	EL	501	GDP	C5'-O5'-PA-O1A
109	EN	501	GDP	C5'-O5'-PA-O1A
109	ET	501	GDP	C5'-O5'-PA-O1A
109	EV	501	GDP	C5'-O5'-PA-O1A
109	EX	501	GDP	C5'-O5'-PA-O1A
109	EZ	501	GDP	C5'-O5'-PA-O1A
109	FF	501	GDP	C5'-O5'-PA-O1A
109	FX	501	GDP	C5'-O5'-PA-O1A
109	GB	501	GDP	C5'-O5'-PA-O1A
109	GD	501	GDP	C5'-O5'-PA-O1A
109	GH	501	GDP	C5'-O5'-PA-O1A
109	GJ	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	GN	501	GDP	C5'-O5'-PA-O1A
109	GP	501	GDP	C5'-O5'-PA-O1A
109	GR	501	GDP	C5'-O5'-PA-O1A
109	GV	501	GDP	C5'-O5'-PA-O1A
109	GX	501	GDP	C5'-O5'-PA-O1A
109	HF	501	GDP	C5'-O5'-PA-O1A
109	HJ	501	GDP	C5'-O5'-PA-O1A
109	HP	501	GDP	C5'-O5'-PA-O1A
109	HR	501	GDP	C5'-O5'-PA-O1A
109	HT	501	GDP	C5'-O5'-PA-O1A
109	IB	501	GDP	C5'-O5'-PA-O1A
109	ID	501	GDP	C5'-O5'-PA-O1A
109	IF	501	GDP	C5'-O5'-PA-O1A
109	IH	501	GDP	C5'-O5'-PA-O1A
109	IP	501	GDP	C5'-O5'-PA-O1A
109	IT	501	GDP	C5'-O5'-PA-O1A
109	IV	501	GDP	C5'-O5'-PA-O1A
109	IX	501	GDP	C5'-O5'-PA-O1A
109	JD	501	GDP	C5'-O5'-PA-O1A
109	JJ	501	GDP	C5'-O5'-PA-O1A
109	JL	501	GDP	C5'-O5'-PA-O1A
109	JN	501	GDP	C5'-O5'-PA-O1A
109	JR	501	GDP	C5'-O5'-PA-O1A
109	JT	501	GDP	C5'-O5'-PA-O1A
109	JZ	501	GDP	C5'-O5'-PA-O1A
109	KD	501	GDP	C5'-O5'-PA-O1A
109	KF	501	GDP	C5'-O5'-PA-O1A
109	KH	501	GDP	C5'-O5'-PA-O1A
109	KJ	501	GDP	C5'-O5'-PA-O1A
109	KT	501	GDP	C5'-O5'-PA-O1A
109	KV	501	GDP	C5'-O5'-PA-O1A
109	KX	501	GDP	C5'-O5'-PA-O1A
109	KZ	501	GDP	C5'-O5'-PA-O1A
109	LB	501	GDP	C5'-O5'-PA-O1A
109	LN	501	GDP	C5'-O5'-PA-O1A
109	LP	501	GDP	C5'-O5'-PA-O1A
109	LV	501	GDP	C5'-O5'-PA-O1A
109	LX	501	GDP	C5'-O5'-PA-O1A
109	LZ	501	GDP	C5'-O5'-PA-O1A
109	MF	501	GDP	C5'-O5'-PA-O1A
109	MJ	501	GDP	C5'-O5'-PA-O1A
109	MN	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	MP	501	GDP	C5'-O5'-PA-O1A
109	MR	501	GDP	C5'-O5'-PA-O1A
109	MV	501	GDP	C5'-O5'-PA-O1A
109	MX	501	GDP	C5'-O5'-PA-O1A
109	NB	501	GDP	C5'-O5'-PA-O1A
109	ND	501	GDP	C5'-O5'-PA-O1A
109	NF	501	GDP	C5'-O5'-PA-O1A
109	NH	501	GDP	C5'-O5'-PA-O1A
109	NN	501	GDP	C5'-O5'-PA-O1A
109	NR	501	GDP	C5'-O5'-PA-O1A
109	NT	501	GDP	C5'-O5'-PA-O1A
109	NV	501	GDP	C5'-O5'-PA-O1A
109	OB	501	GDP	C5'-O5'-PA-O1A
109	OD	501	GDP	C5'-O5'-PA-O1A
109	OF	501	GDP	C5'-O5'-PA-O1A
109	OH	501	GDP	C5'-O5'-PA-O1A
109	OJ	501	GDP	C5'-O5'-PA-O1A
109	OR	501	GDP	C5'-O5'-PA-O1A
109	OV	501	GDP	C5'-O5'-PA-O1A
109	OX	501	GDP	C5'-O5'-PA-O1A
109	PJ	501	GDP	C5'-O5'-PA-O1A
109	PN	501	GDP	C5'-O5'-PA-O1A
109	PP	501	GDP	C5'-O5'-PA-O1A
109	PT	501	GDP	C5'-O5'-PA-O1A
109	PX	501	GDP	C5'-O5'-PA-O1A
109	QB	501	GDP	C5'-O5'-PA-O1A
109	QD	501	GDP	C5'-O5'-PA-O1A
109	QF	501	GDP	C5'-O5'-PA-O1A
109	QJ	501	GDP	C5'-O5'-PA-O1A
109	QL	501	GDP	C5'-O5'-PA-O1A
109	QN	501	GDP	C5'-O5'-PA-O1A
109	QP	501	GDP	C5'-O5'-PA-O1A
109	QR	501	GDP	C5'-O5'-PA-O1A
109	QV	501	GDP	C5'-O5'-PA-O1A
109	QX	501	GDP	C5'-O5'-PA-O1A
109	RH	501	GDP	C5'-O5'-PA-O1A
109	RN	501	GDP	C5'-O5'-PA-O1A
109	RP	501	GDP	C5'-O5'-PA-O1A
109	RR	501	GDP	C5'-O5'-PA-O1A
109	RT	501	GDP	C5'-O5'-PA-O1A
109	RX	501	GDP	C5'-O5'-PA-O1A
109	SD	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
109	SH	501	GDP	C5'-O5'-PA-O1A
109	SL	501	GDP	C5'-O5'-PA-O1A
109	SN	501	GDP	C5'-O5'-PA-O1A
109	SR	501	GDP	C5'-O5'-PA-O1A
109	ST	501	GDP	C5'-O5'-PA-O1A
109	SV	501	GDP	C5'-O5'-PA-O1A
109	TB	501	GDP	C5'-O5'-PA-O1A
109	TF	501	GDP	C5'-O5'-PA-O1A
109	TJ	501	GDP	C5'-O5'-PA-O1A
109	TN	501	GDP	C5'-O5'-PA-O1A
109	TR	501	GDP	C5'-O5'-PA-O1A
109	TV	501	GDP	C5'-O5'-PA-O1A
109	TX	501	GDP	C5'-O5'-PA-O1A
109	UB	501	GDP	C5'-O5'-PA-O1A
109	UJ	501	GDP	C5'-O5'-PA-O1A
109	UL	501	GDP	C5'-O5'-PA-O1A
109	UN	501	GDP	C5'-O5'-PA-O1A
109	UP	501	GDP	C5'-O5'-PA-O1A
109	UR	501	GDP	C5'-O5'-PA-O1A
109	UT	501	GDP	C5'-O5'-PA-O1A
109	UV	501	GDP	C5'-O5'-PA-O1A
109	UX	501	GDP	C5'-O5'-PA-O1A
109	UZ	501	GDP	C5'-O5'-PA-O1A
109	VB	501	GDP	C5'-O5'-PA-O1A
109	VD	501	GDP	C5'-O5'-PA-O1A
109	VN	501	GDP	C5'-O5'-PA-O1A
109	VP	501	GDP	C5'-O5'-PA-O1A
109	VR	501	GDP	C5'-O5'-PA-O1A
109	VX	501	GDP	C5'-O5'-PA-O1A
109	WD	501	GDP	C5'-O5'-PA-O1A
109	WF	501	GDP	C5'-O5'-PA-O1A
109	WH	501	GDP	C5'-O5'-PA-O1A
109	WJ	501	GDP	C5'-O5'-PA-O1A
109	WP	501	GDP	C5'-O5'-PA-O1A
109	WR	501	GDP	C5'-O5'-PA-O1A
109	WT	501	GDP	C5'-O5'-PA-O1A
109	WX	501	GDP	C5'-O5'-PA-O1A
107	GK	501	GTP	C3'-C4'-C5'-O5'
107	NW	501	GTP	C3'-C4'-C5'-O5'
107	FK	501	GTP	C4'-C5'-O5'-PA
107	PY	501	GTP	C4'-C5'-O5'-PA
107	WC	501	GTP	C4'-C5'-O5'-PA

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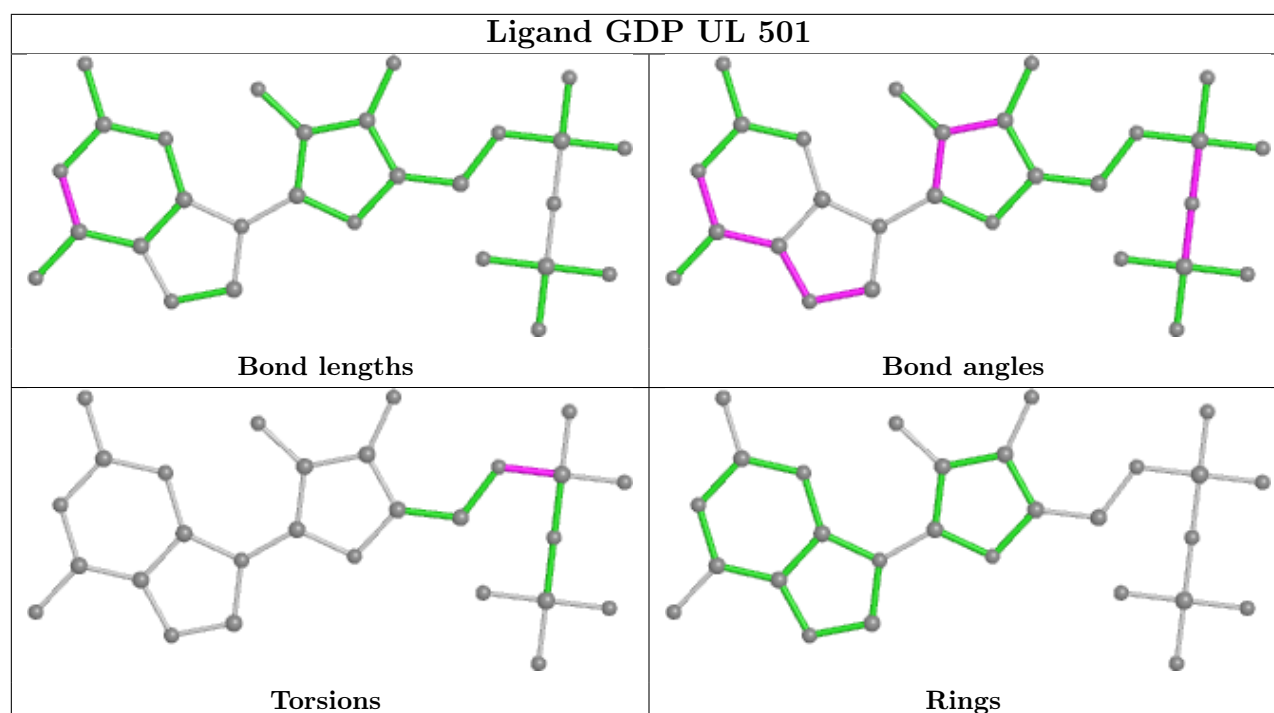
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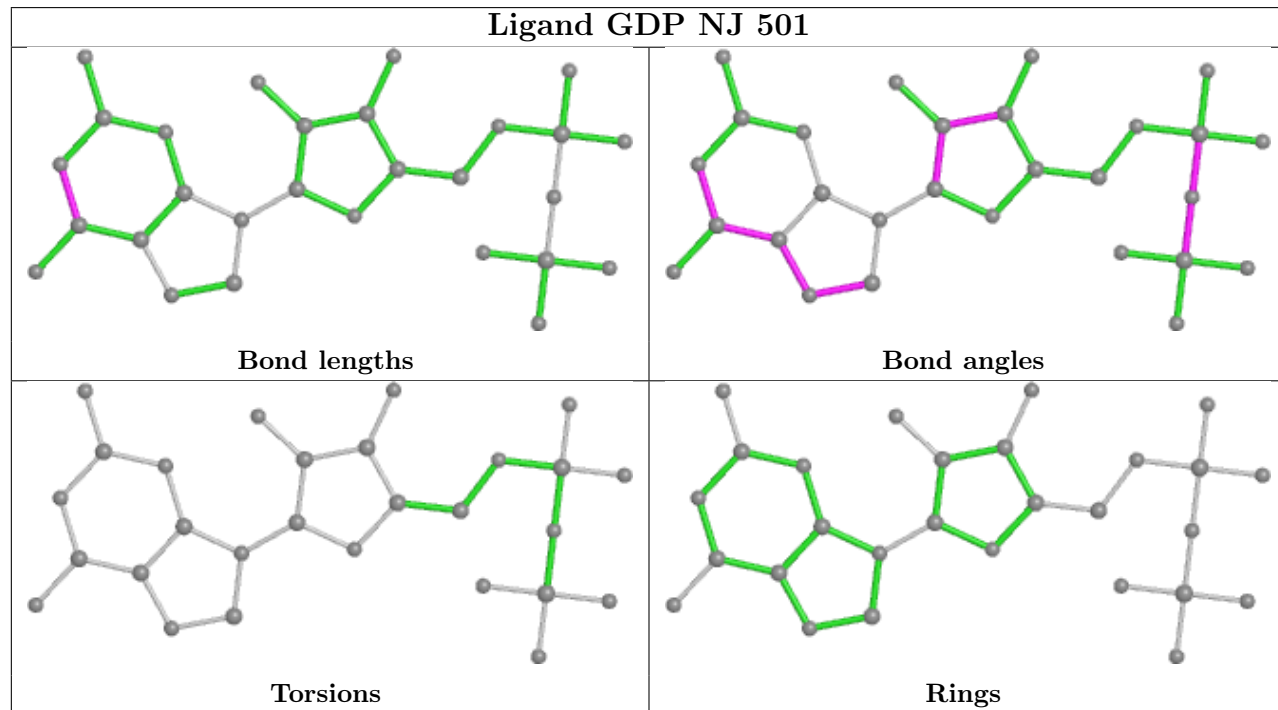
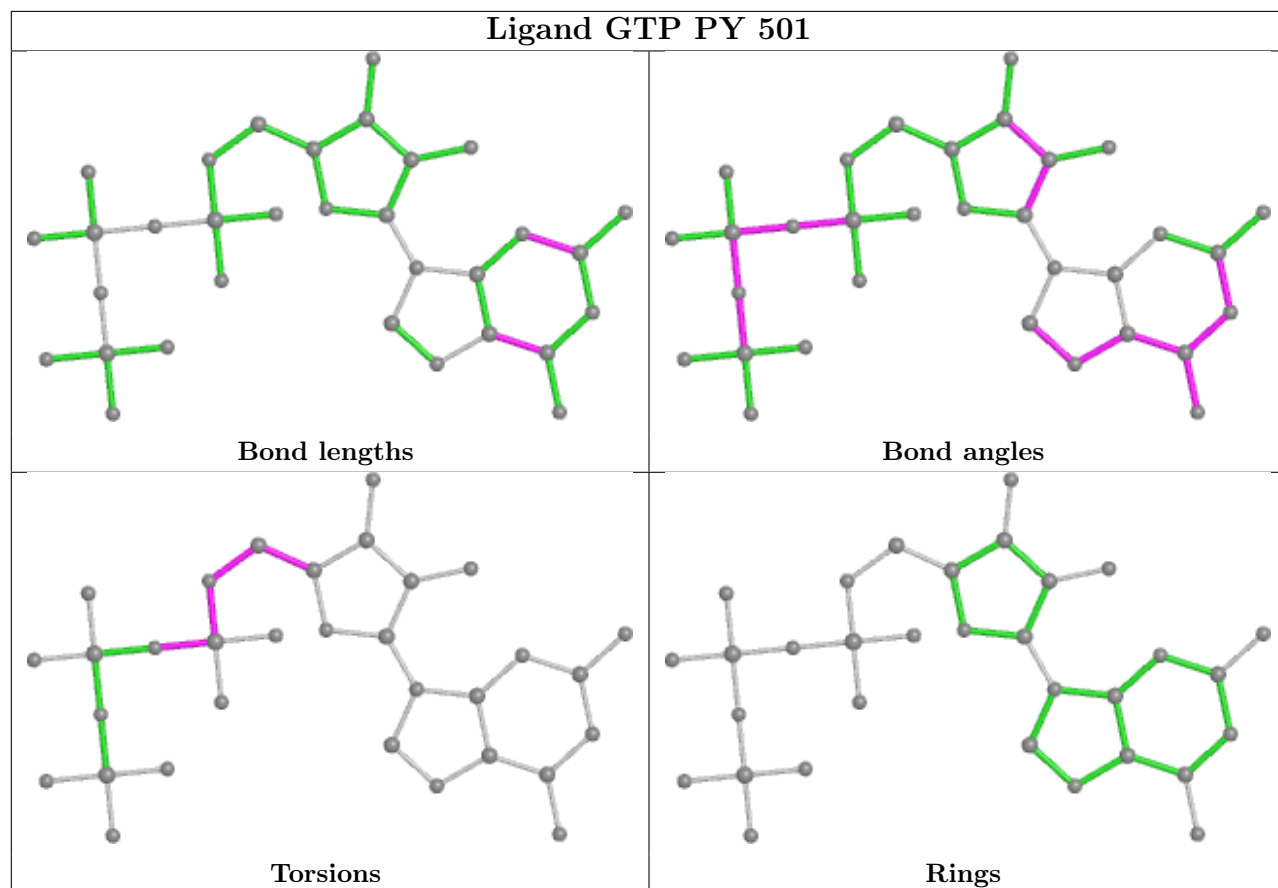
Mol	Chain	Res	Type	Atoms
107	CW	501	GTP	C3'-C4'-C5'-O5'
107	GC	501	GTP	C3'-C4'-C5'-O5'
107	LG	501	GTP	C3'-C4'-C5'-O5'
107	TG	501	GTP	C3'-C4'-C5'-O5'
109	EN	501	GDP	C3'-C4'-C5'-O5'
109	ER	501	GDP	C3'-C4'-C5'-O5'
109	KD	501	GDP	C3'-C4'-C5'-O5'
109	MZ	501	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

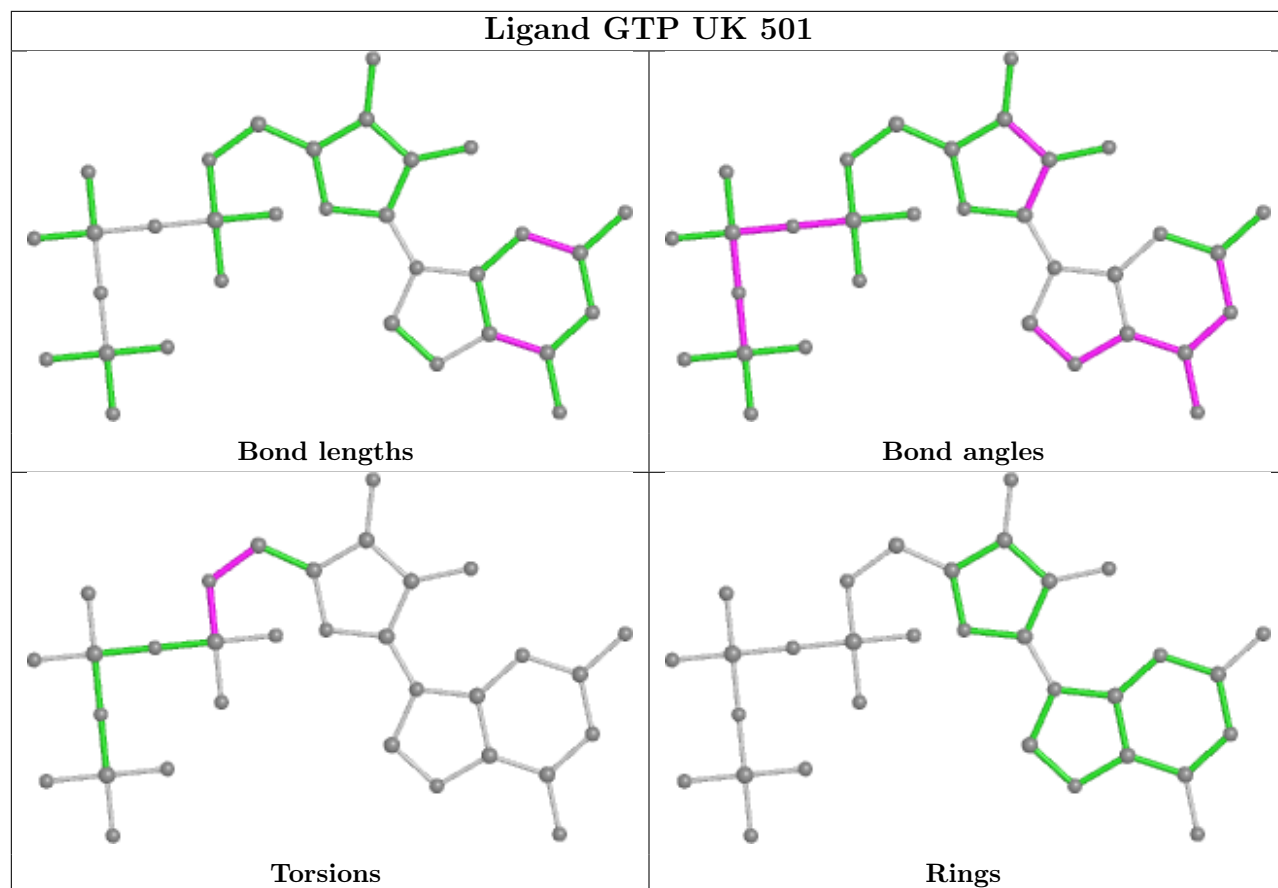
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

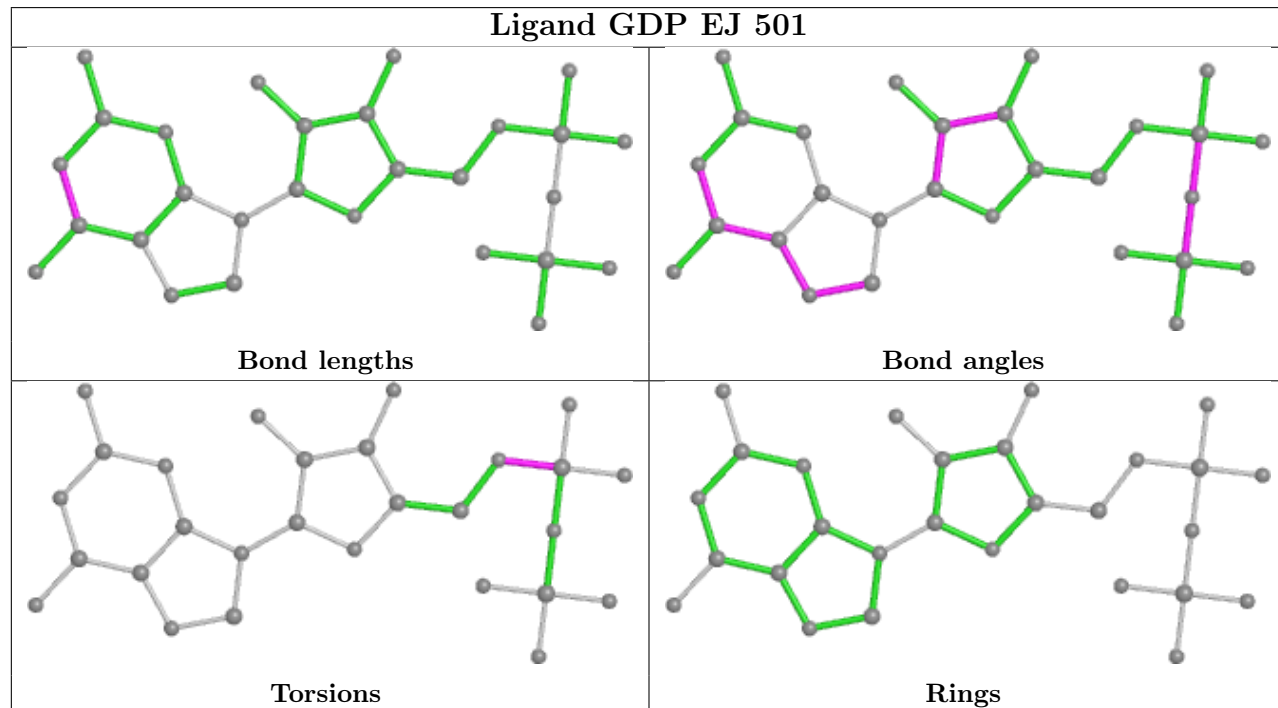




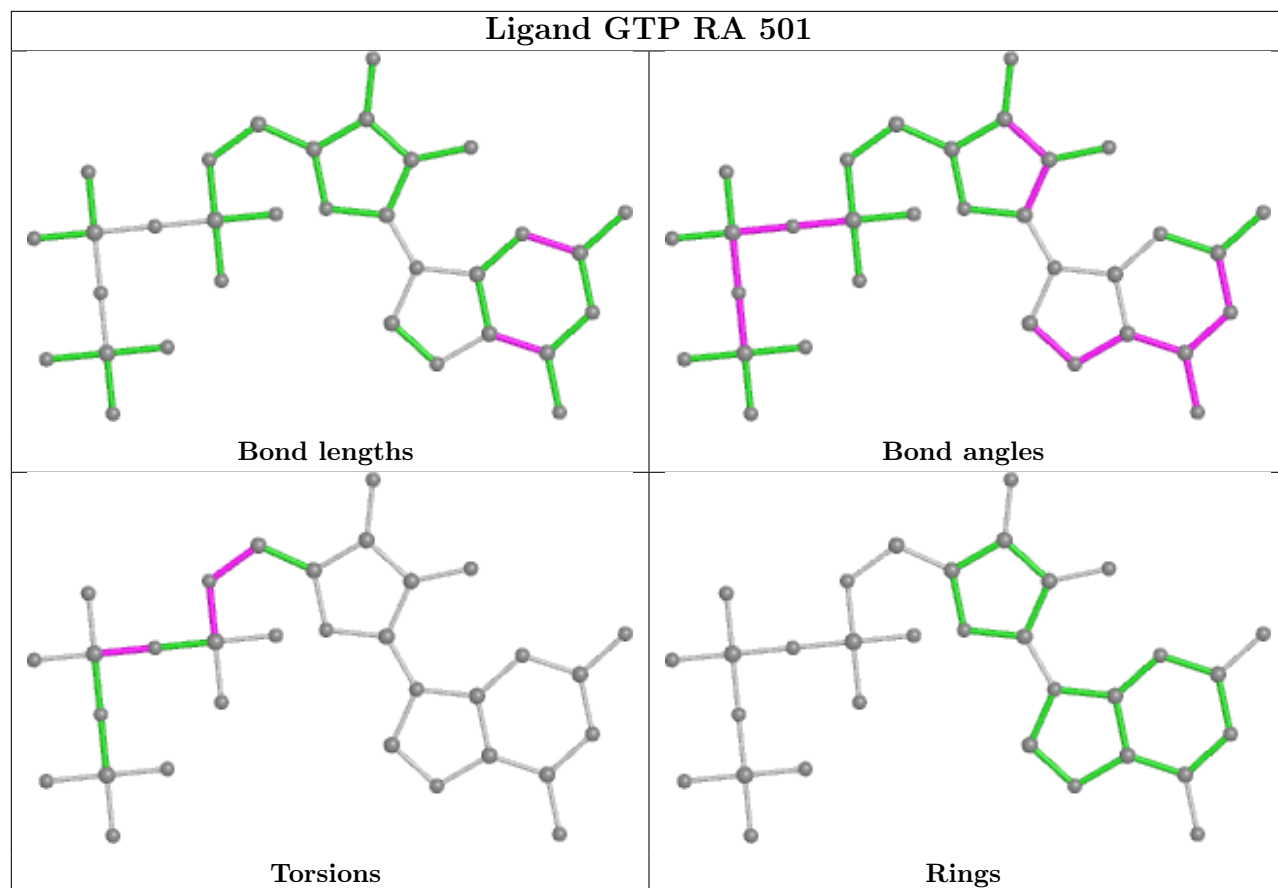
Ligand GTP UK 501



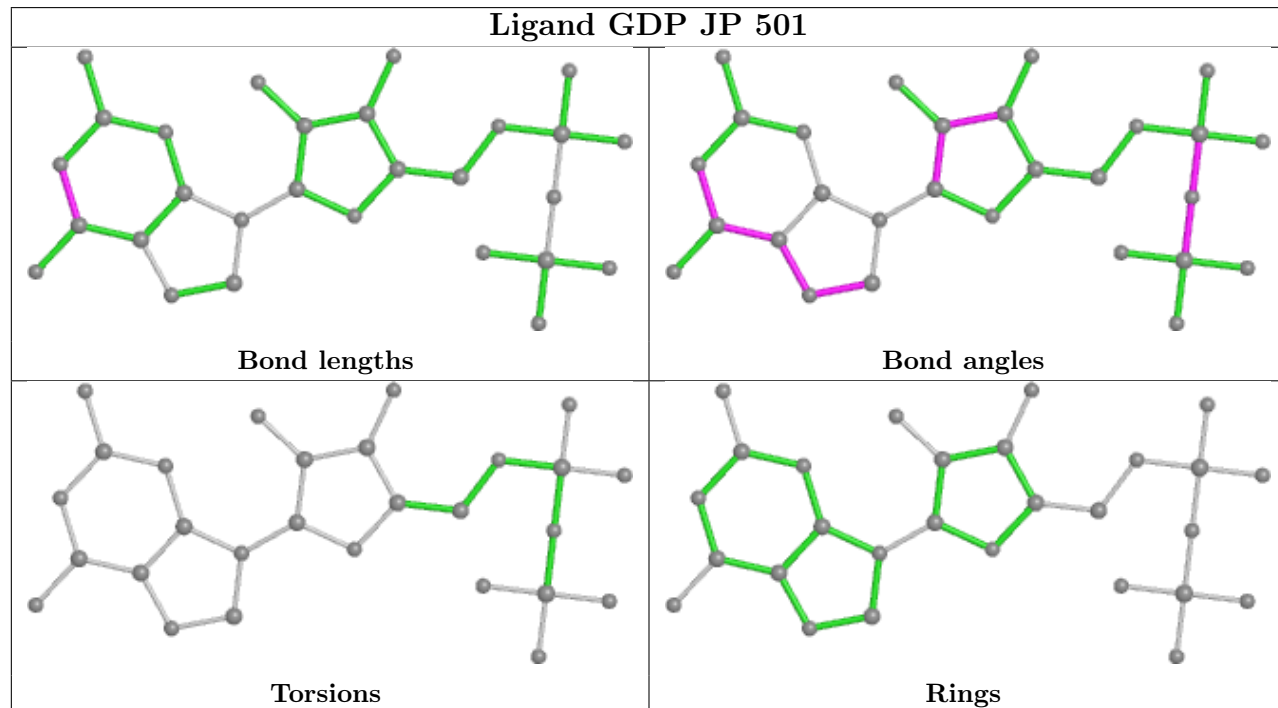
Ligand GDP EJ 501



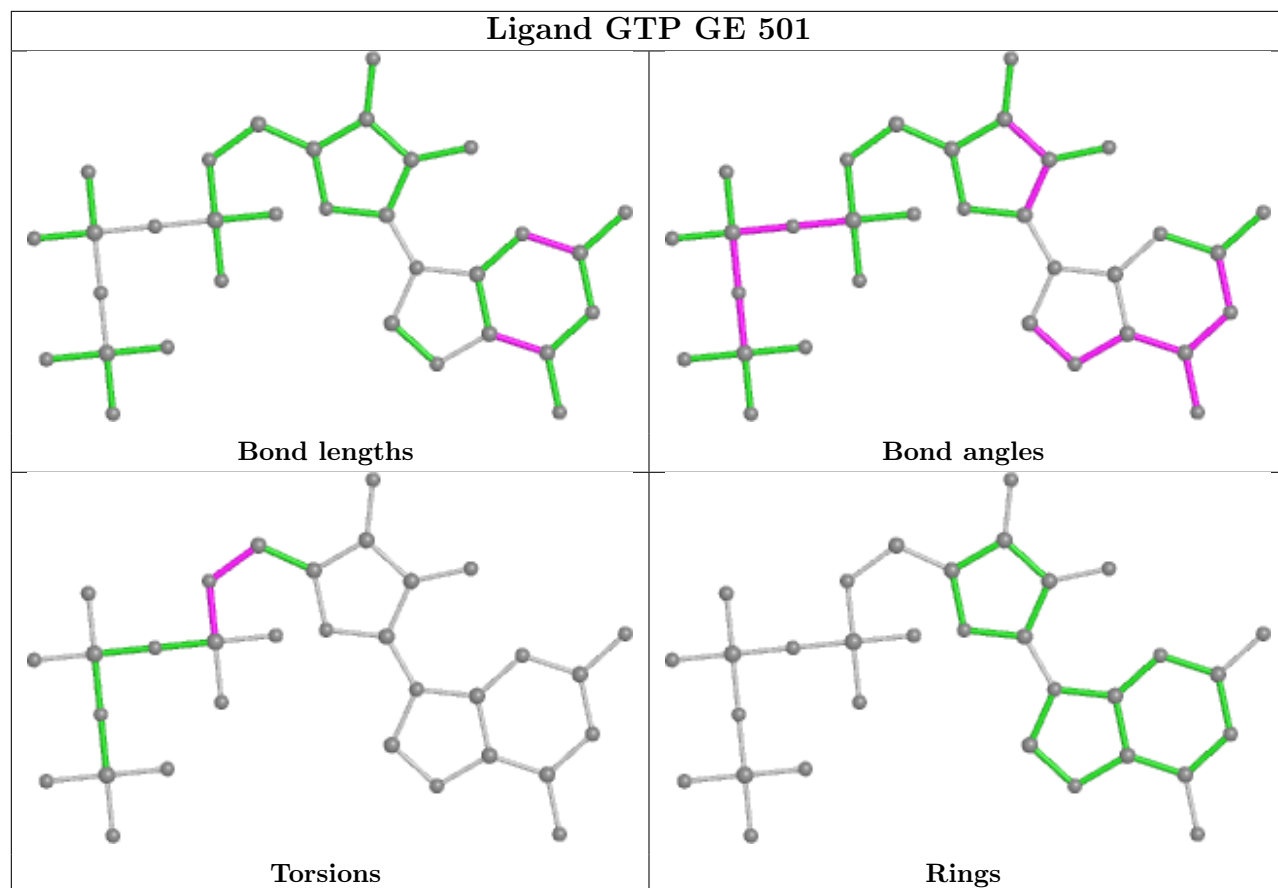
Ligand GTP RA 501



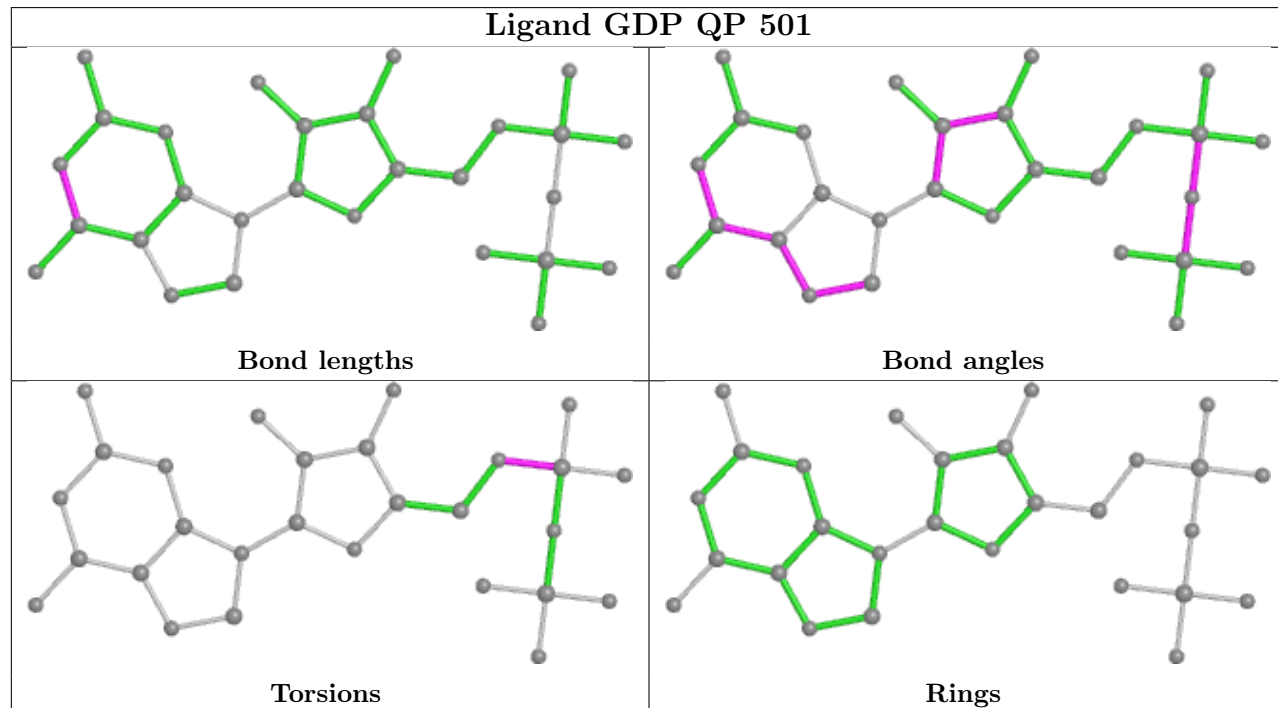
Ligand GDP JP 501



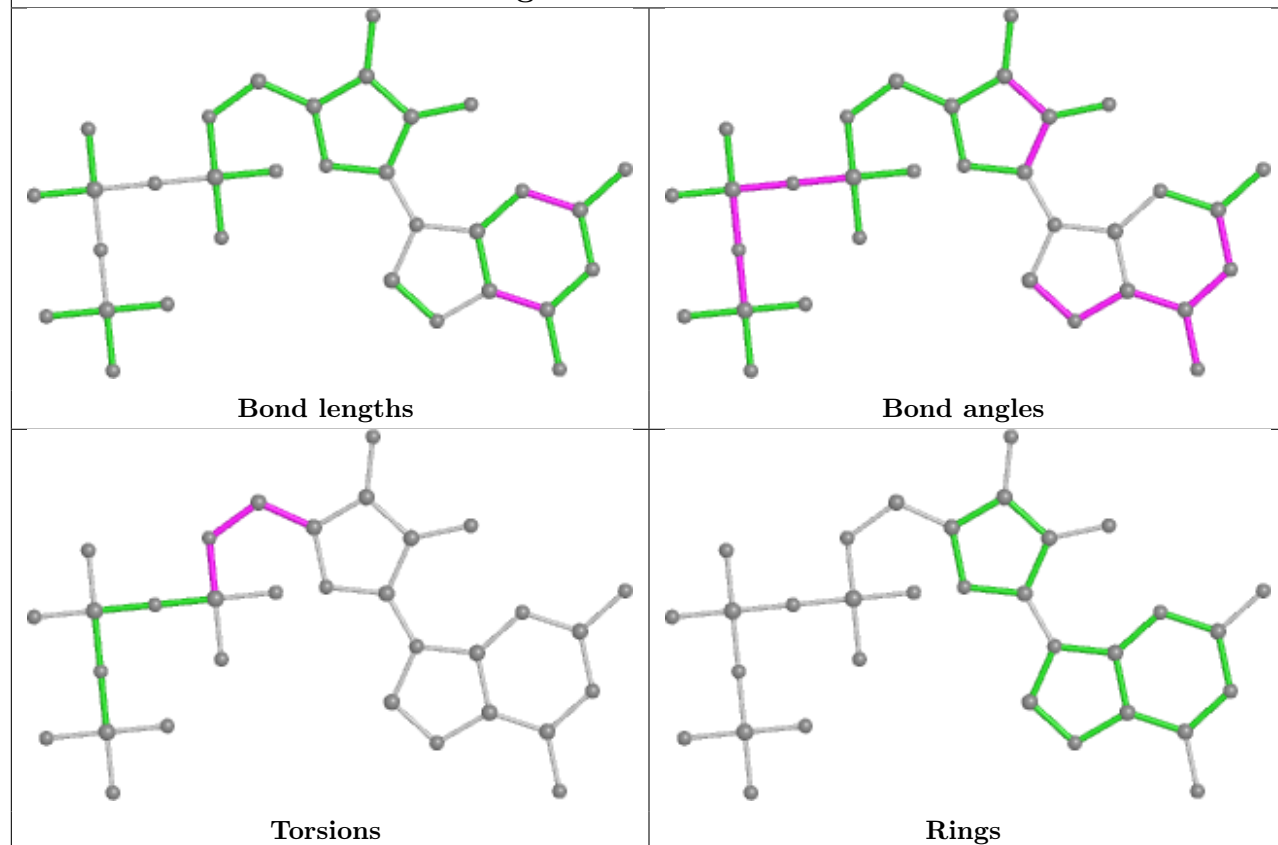
Ligand GTP GE 501



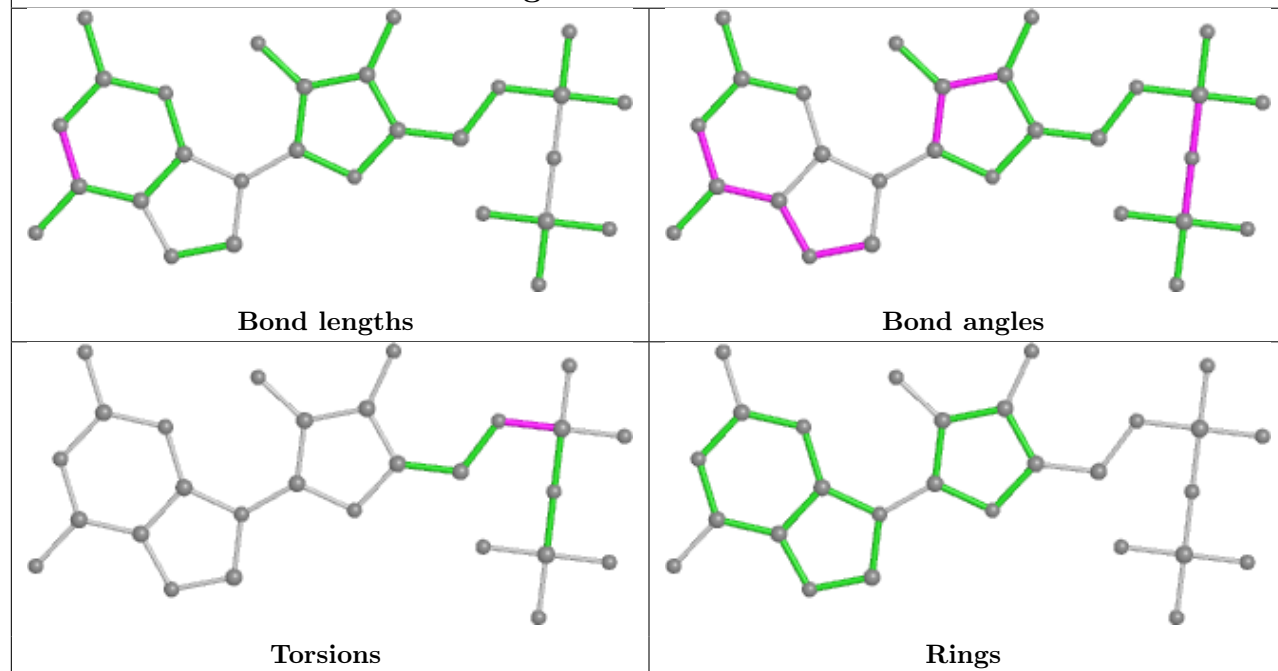
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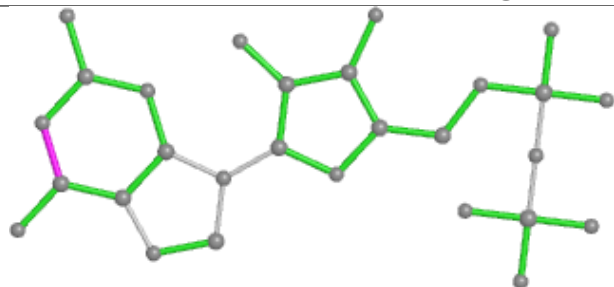
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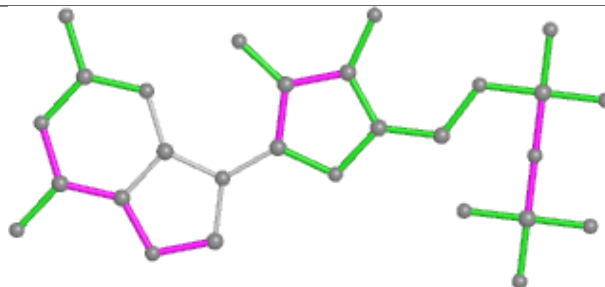
Ligand GDP IT 501



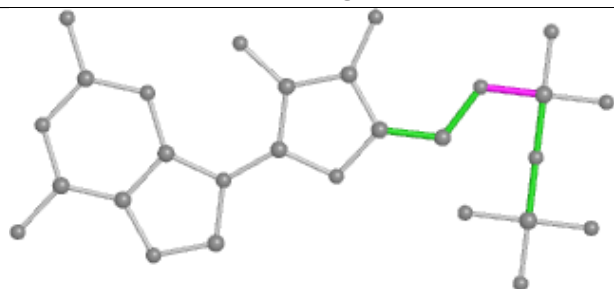
Ligand GDP OD 501



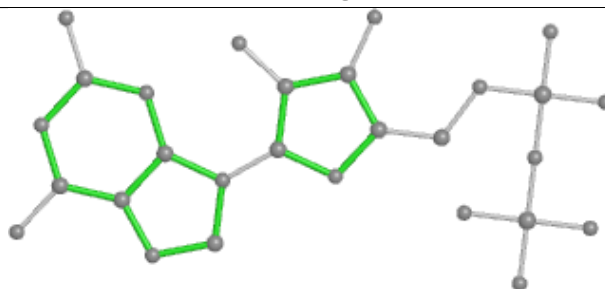
Bond lengths



Bond angles

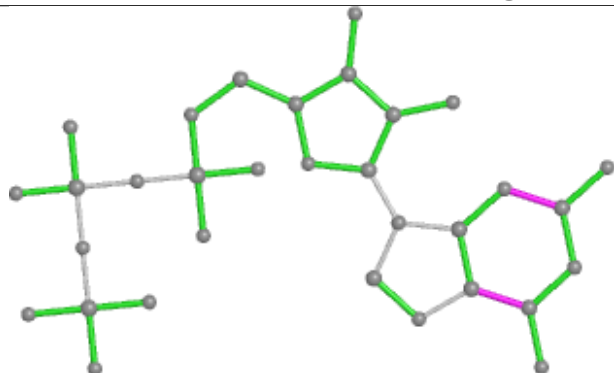


Torsions

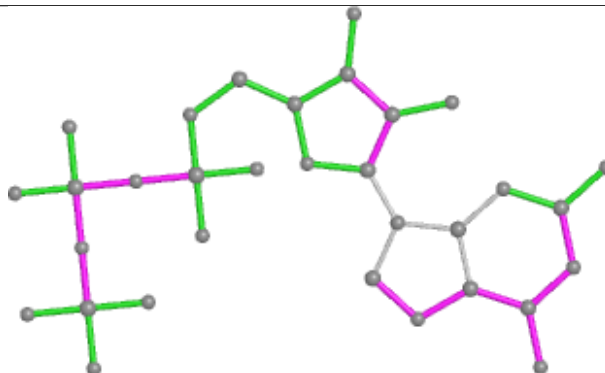


Rings

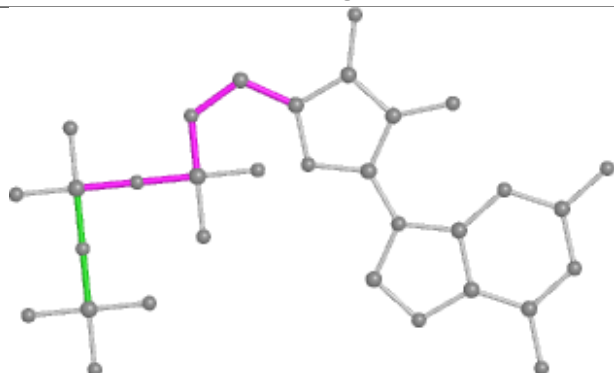
Ligand GTP PC 501



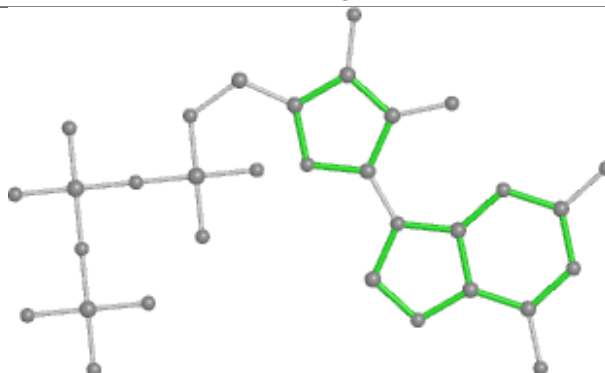
Bond lengths



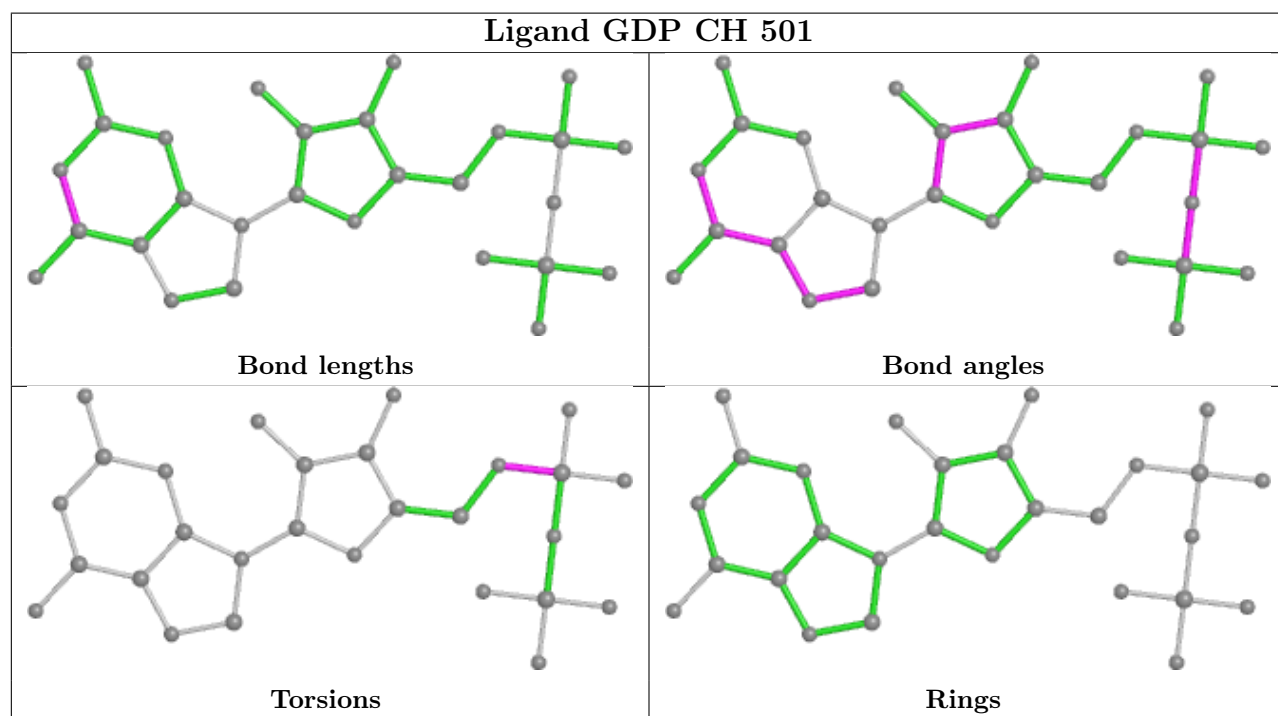
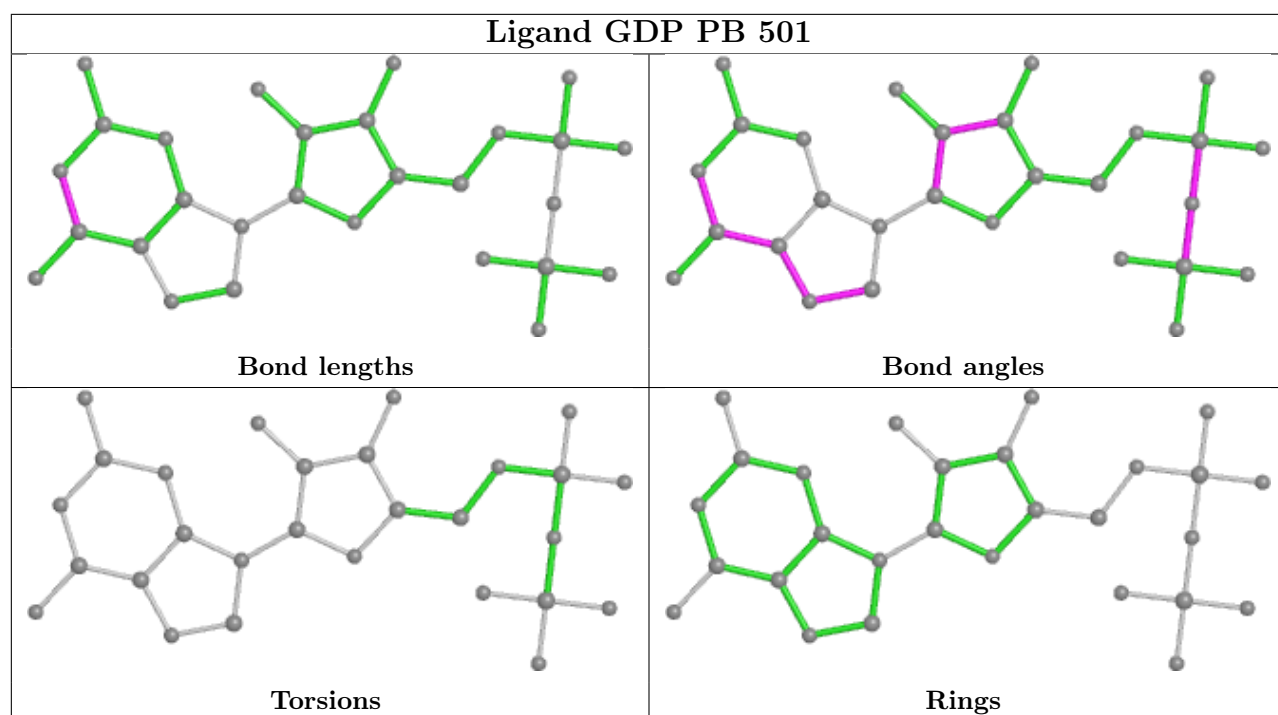
Bond angles



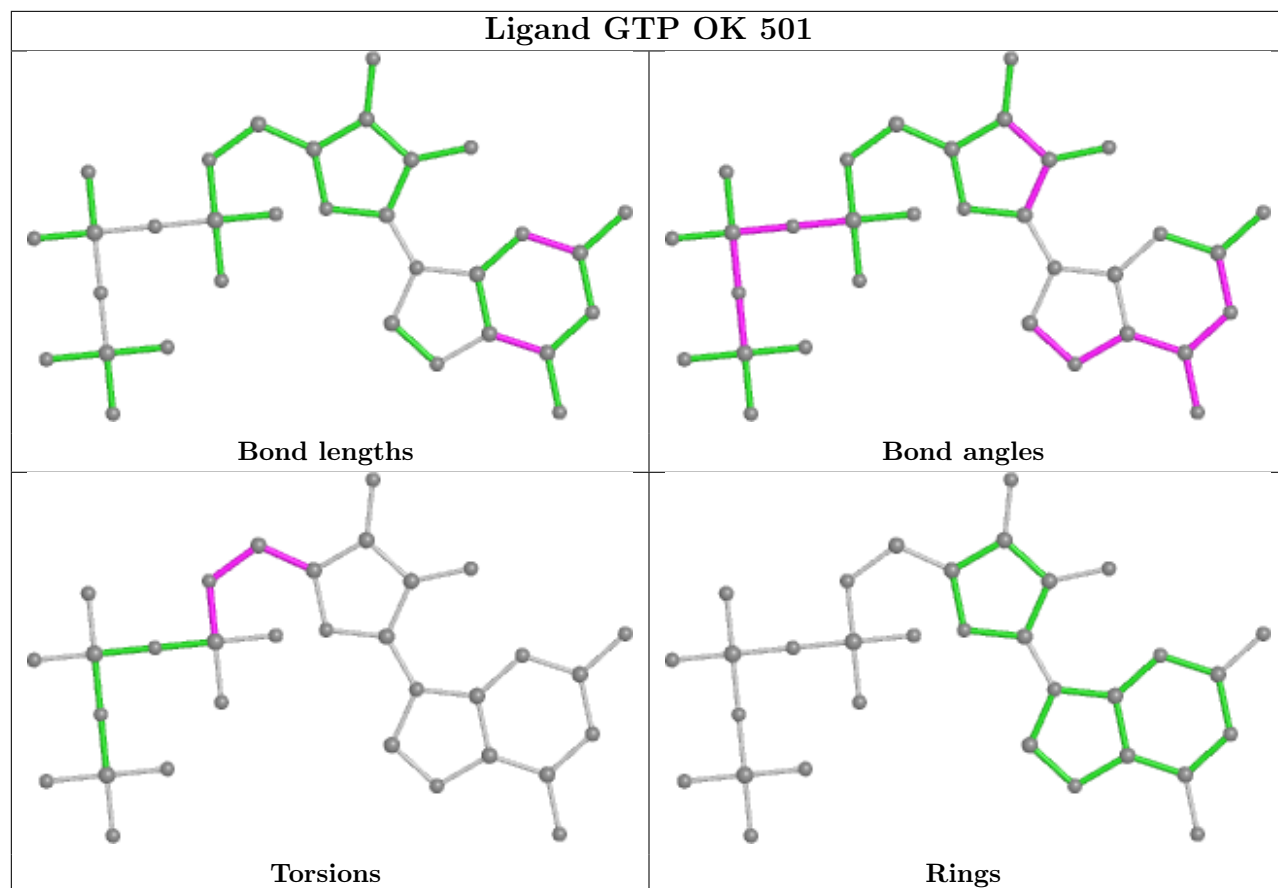
Torsions



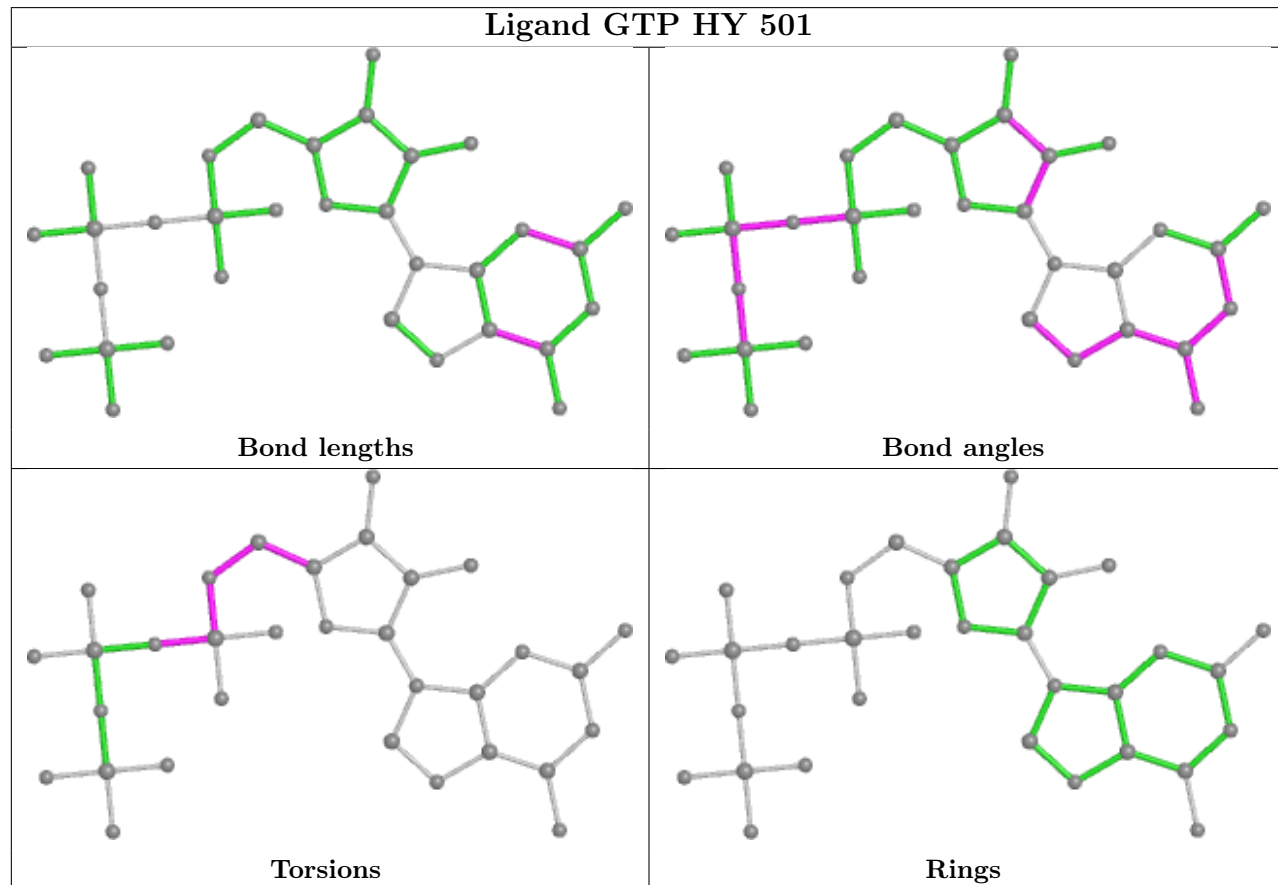
Rings

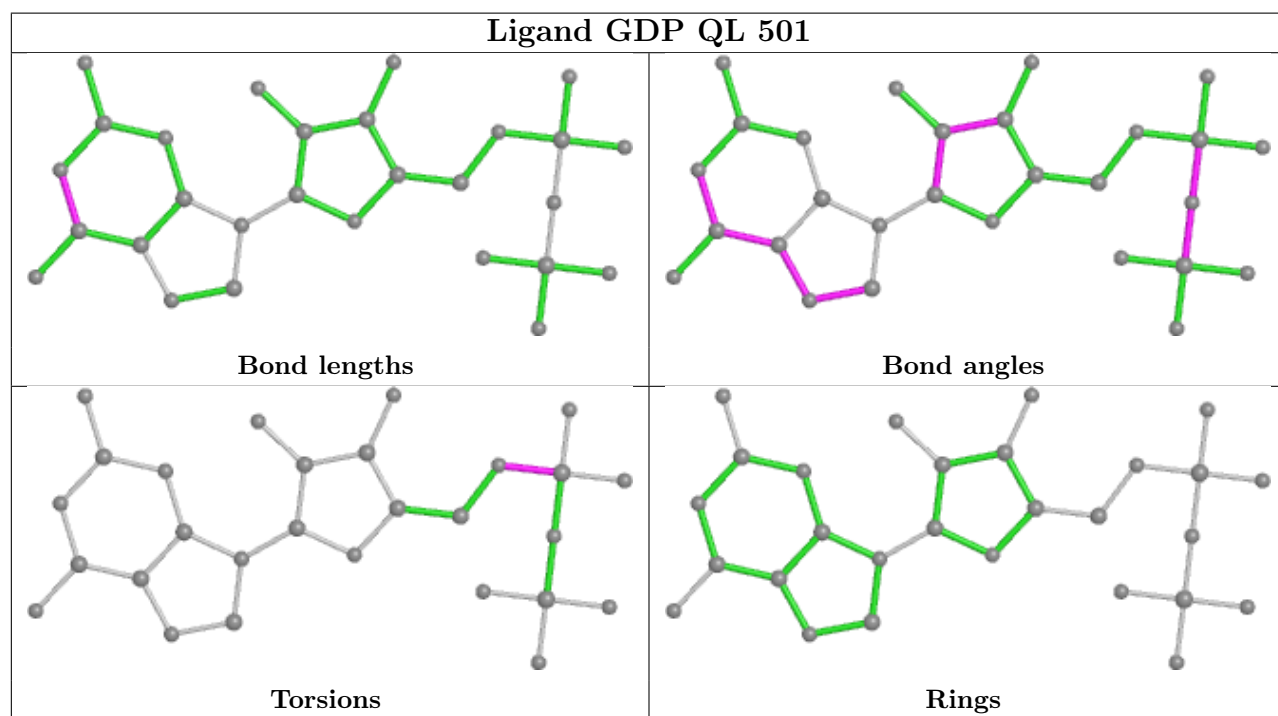
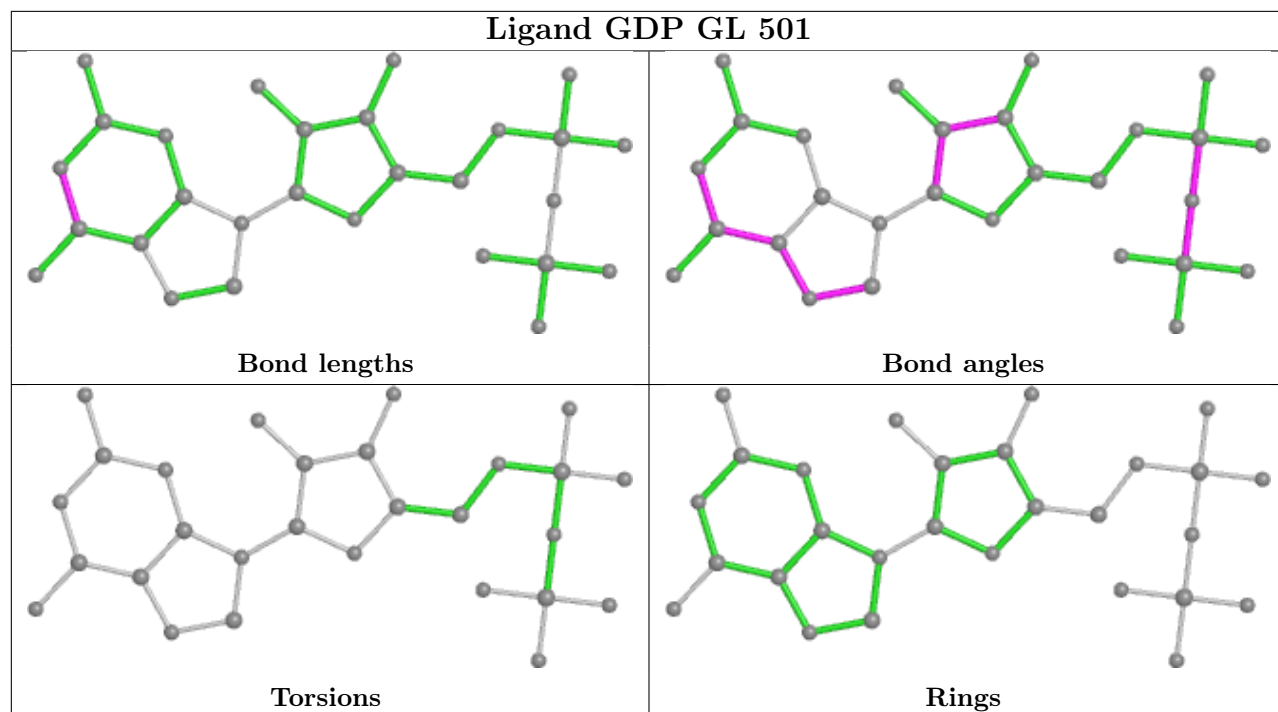


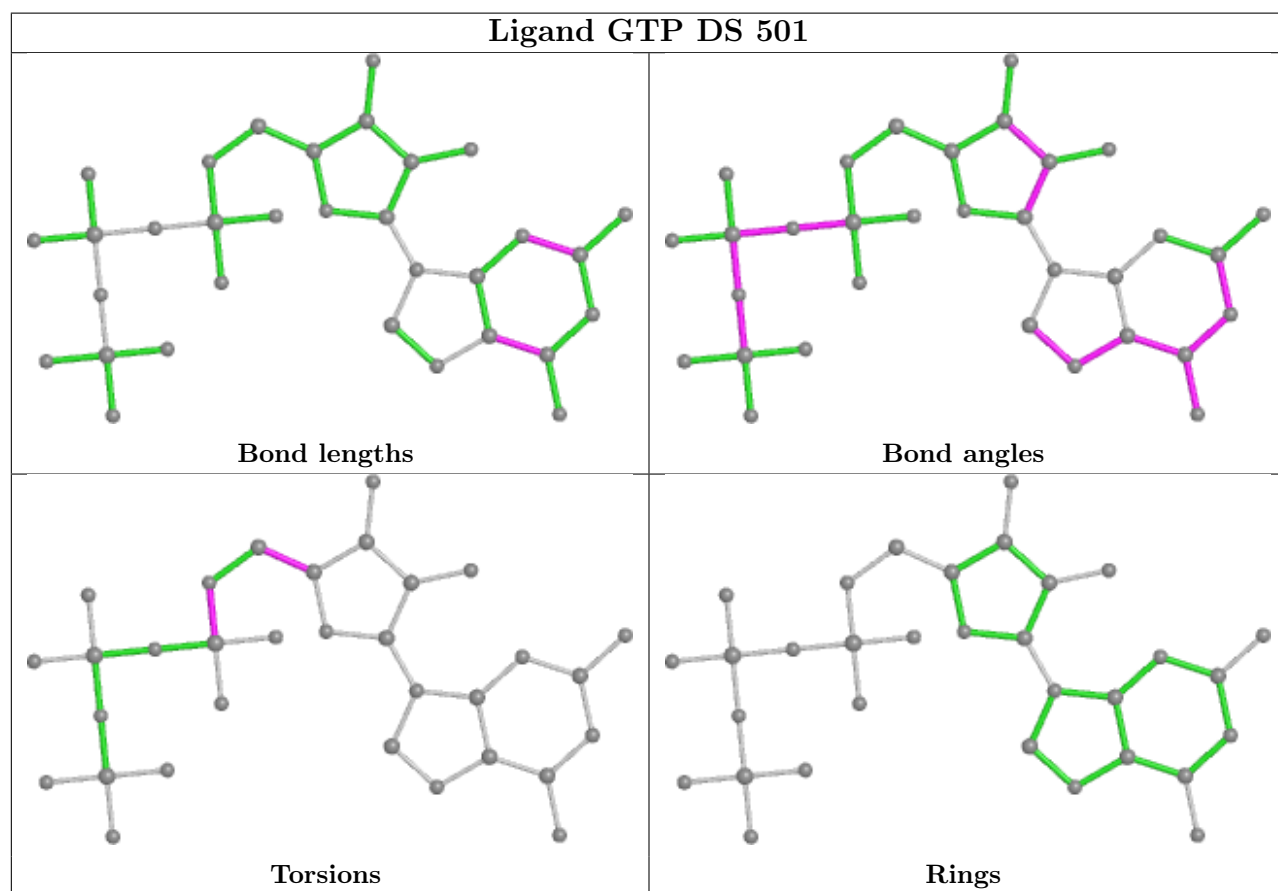
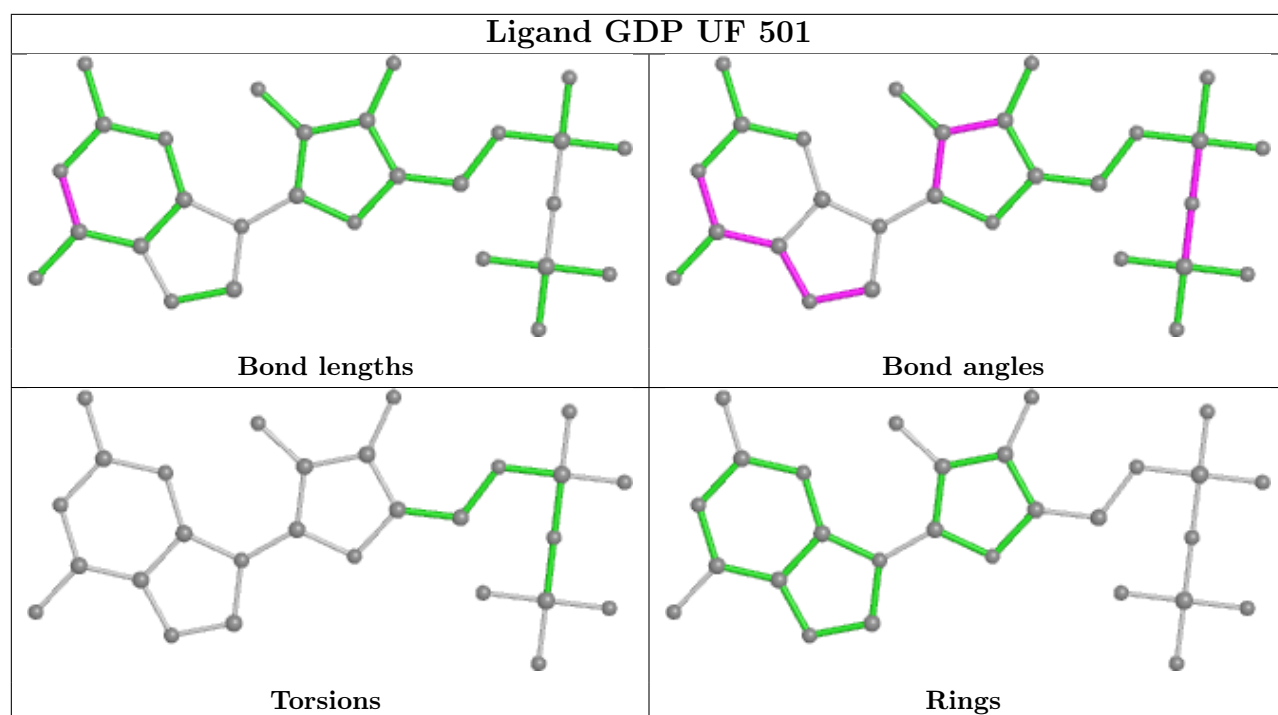
Ligand GTP OK 501



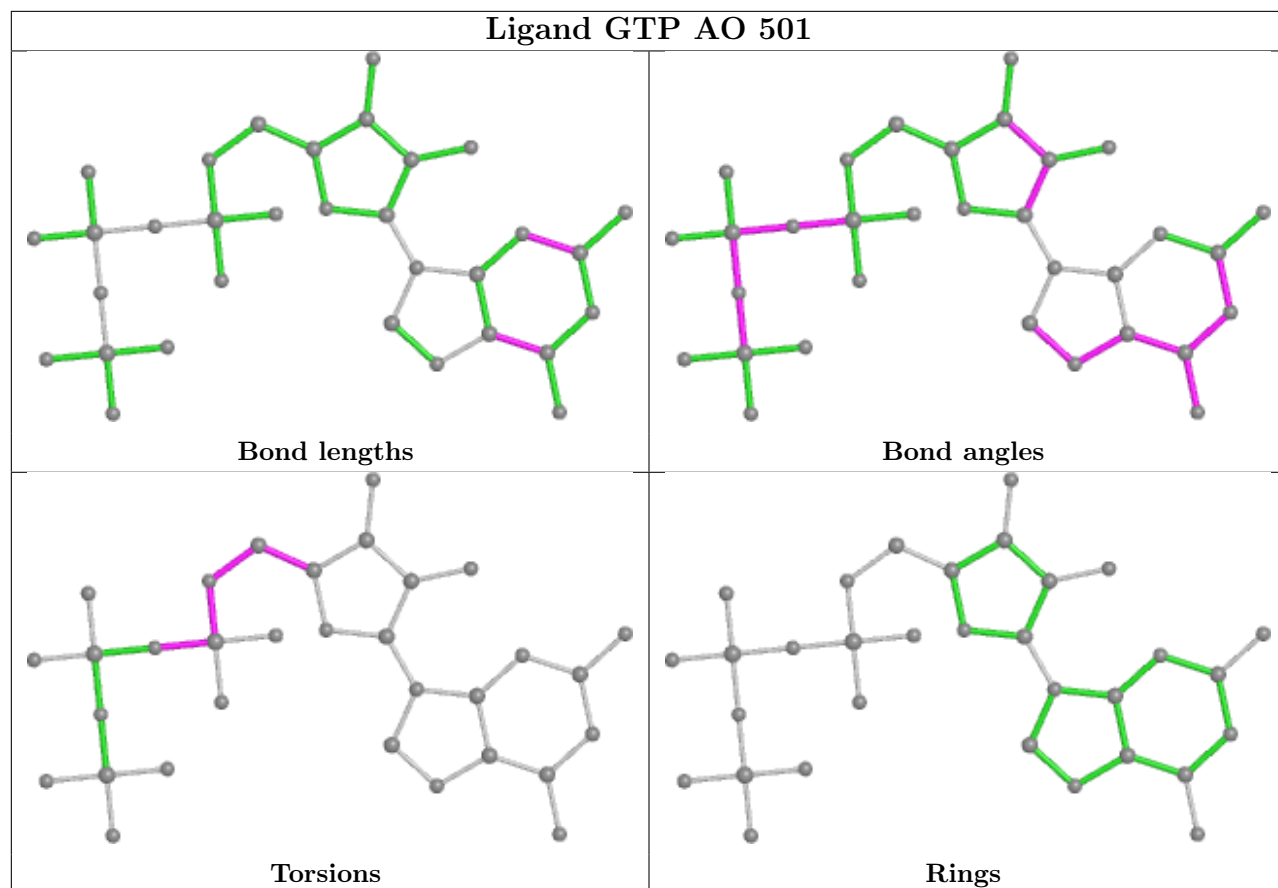
Ligand GTP HY 501



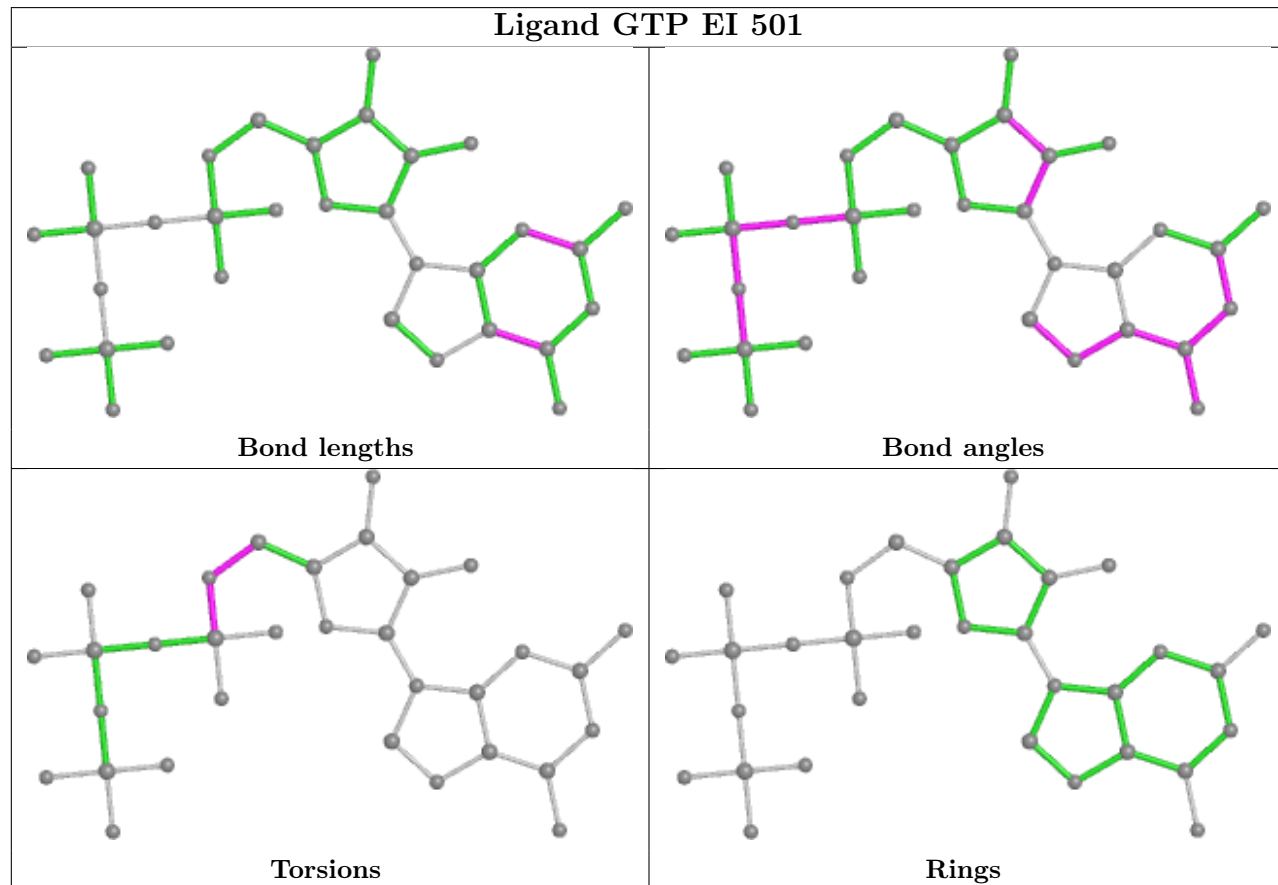




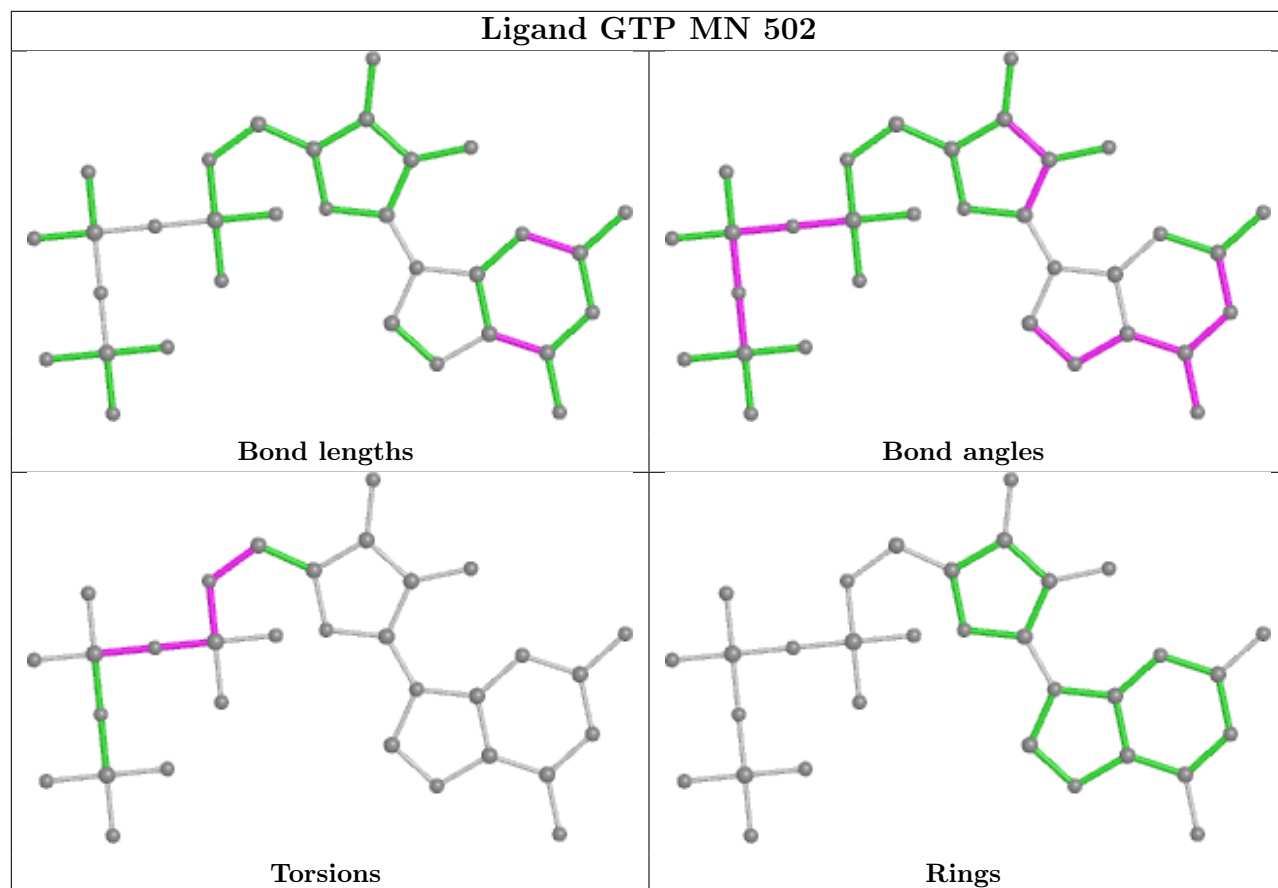
Ligand GTP AO 501



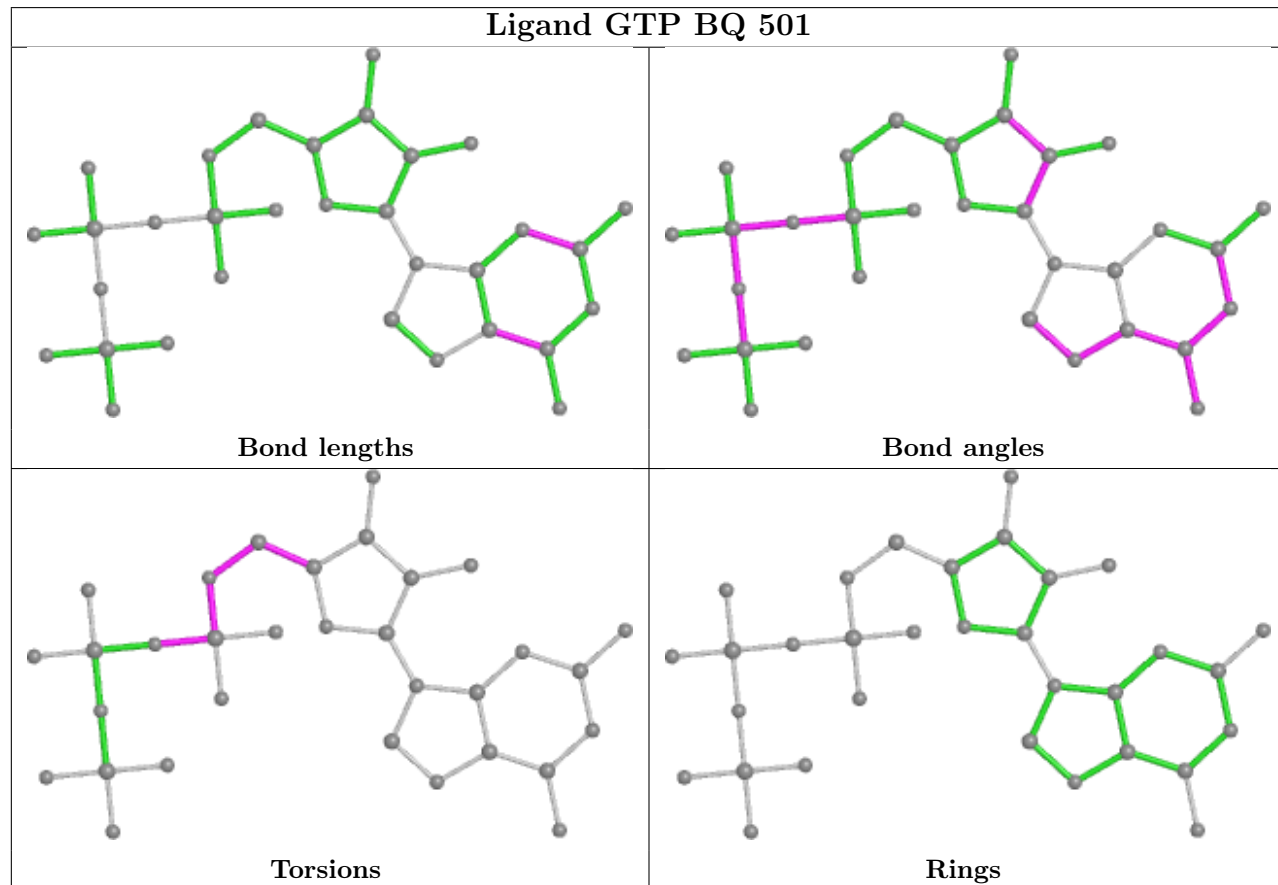
Ligand GTP EI 501



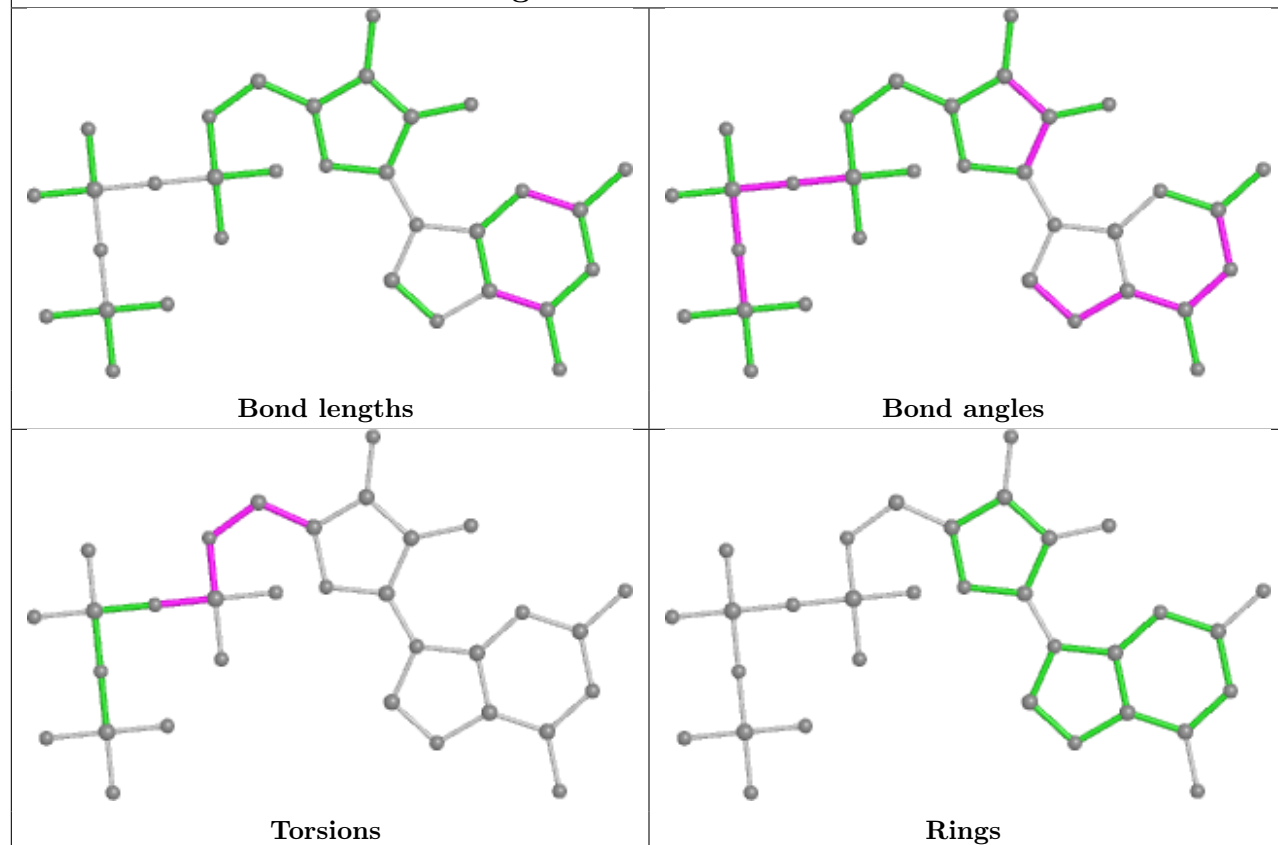
Ligand GTP MN 502



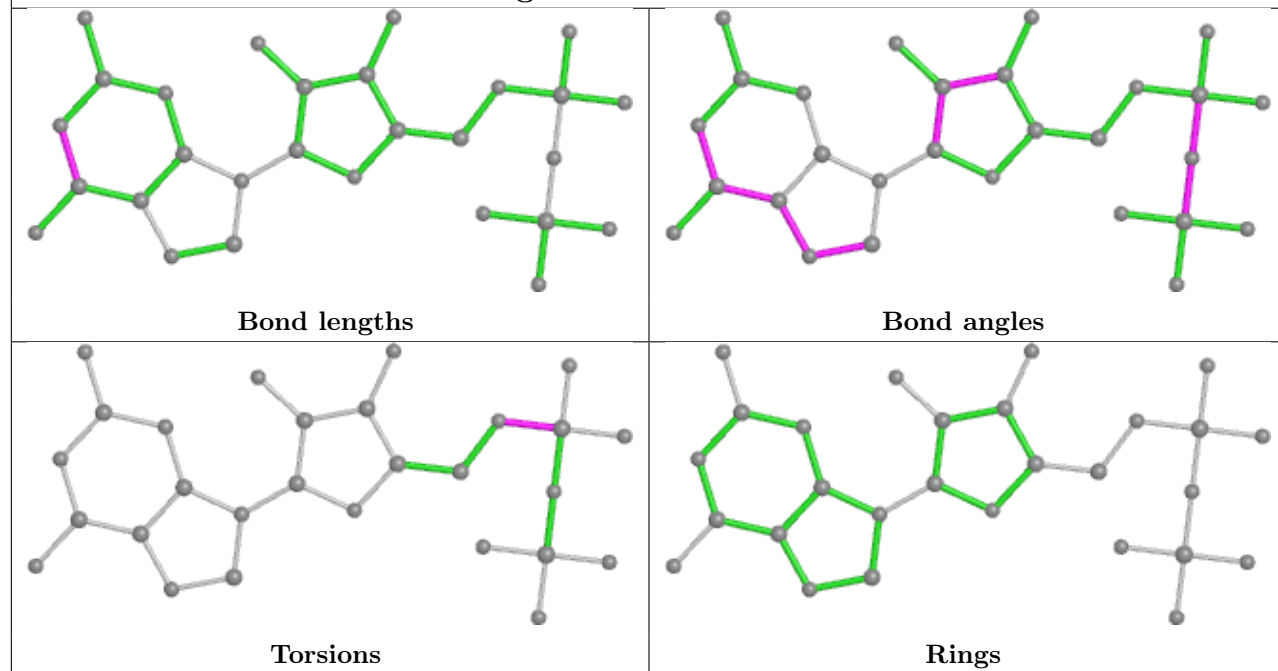
Ligand GTP BQ 501



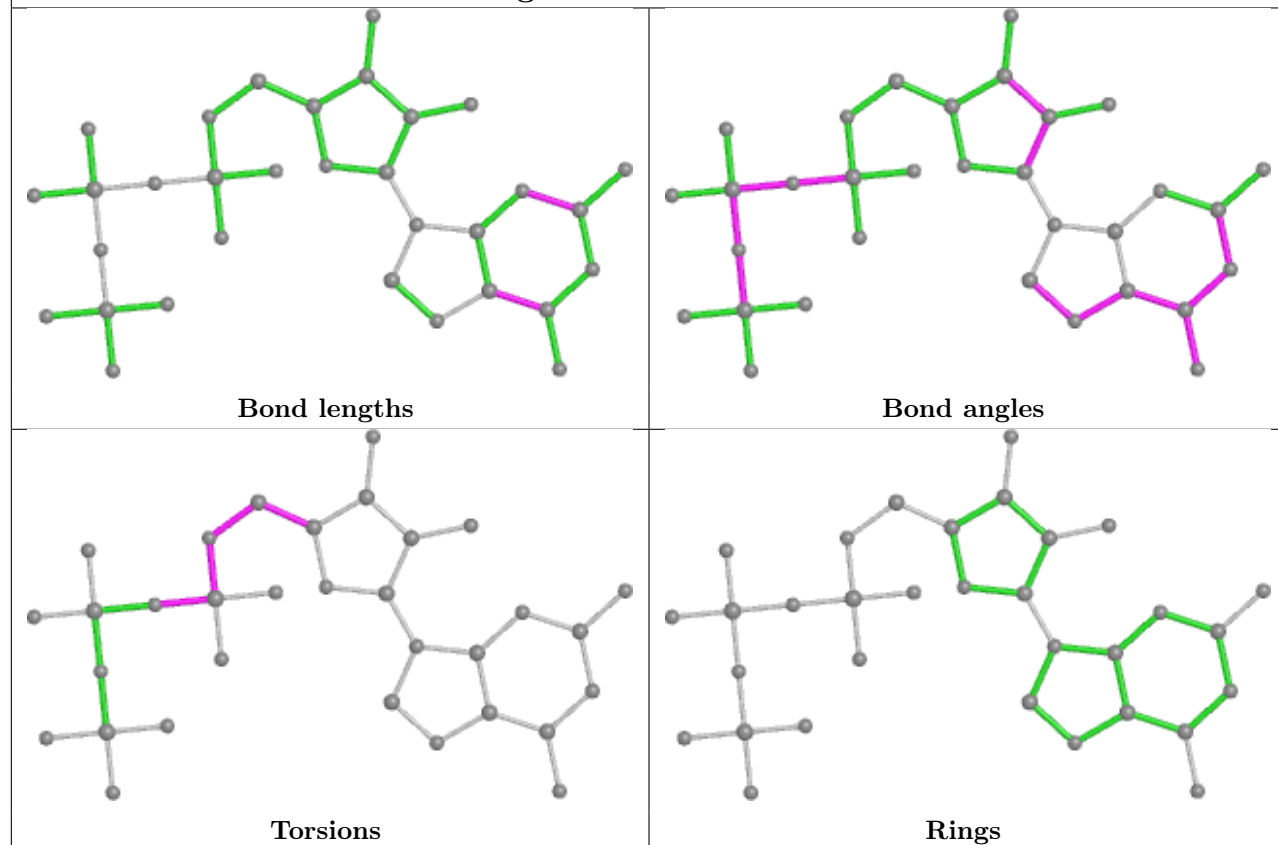
Ligand GTP WO 501



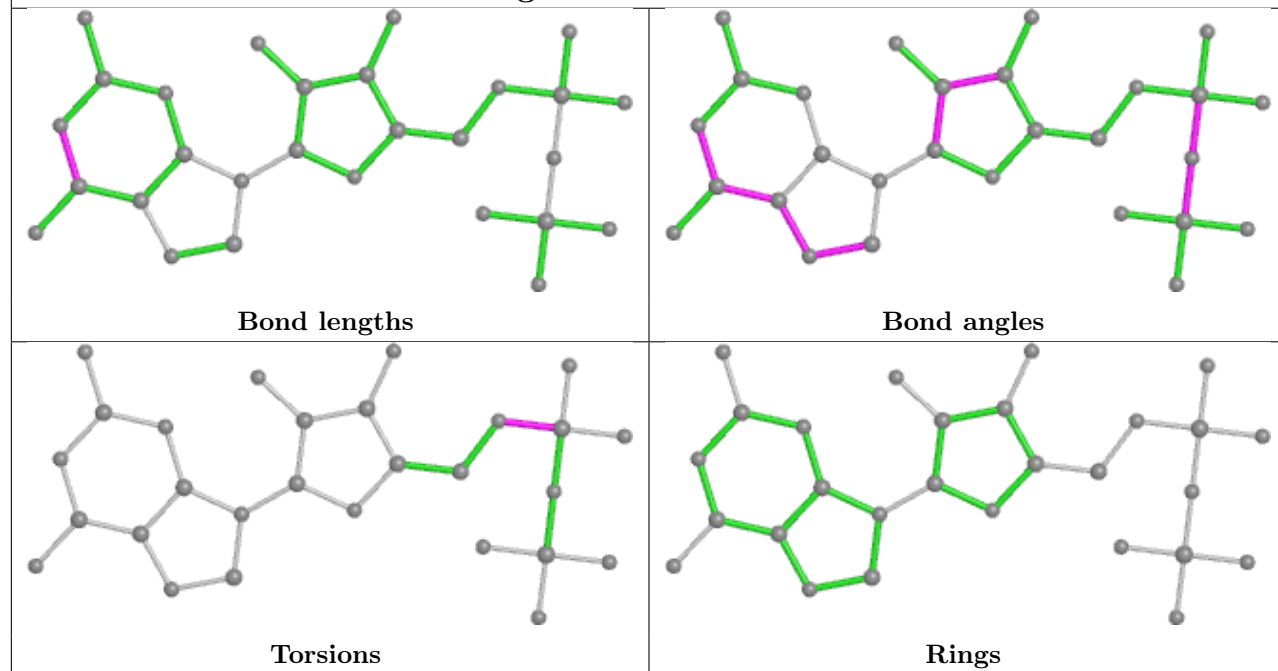
Ligand GDP BR 501

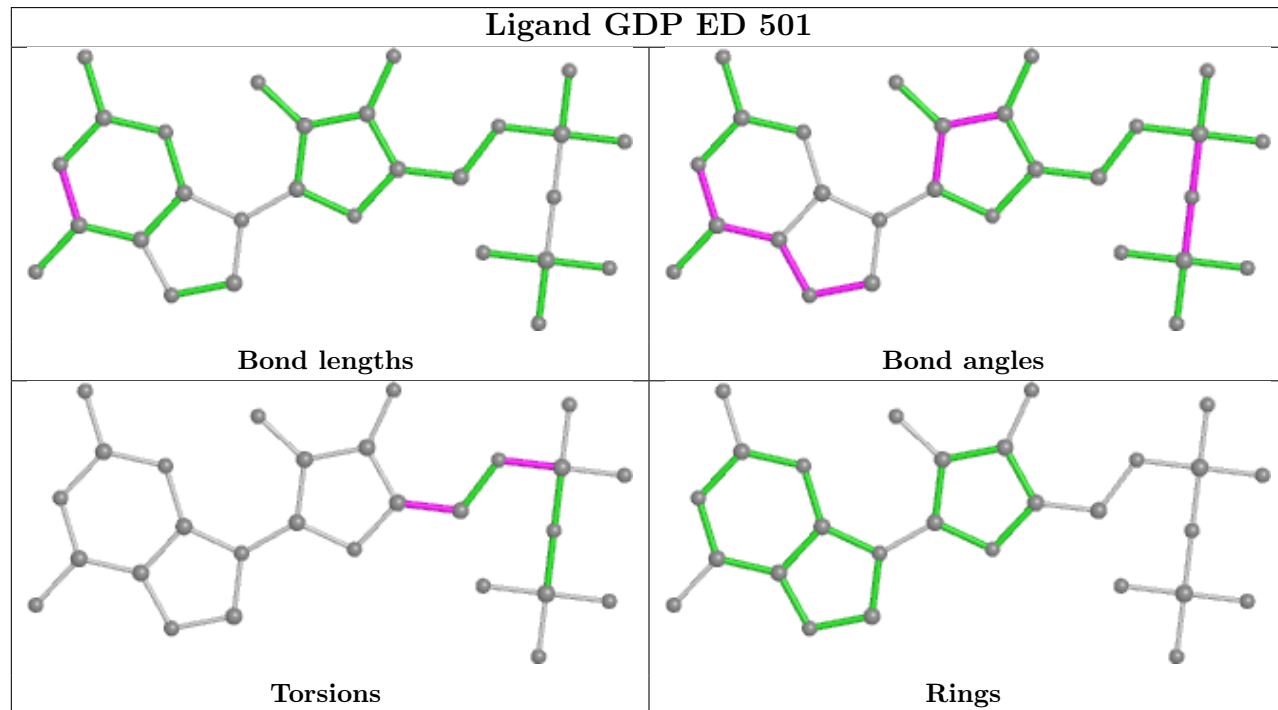
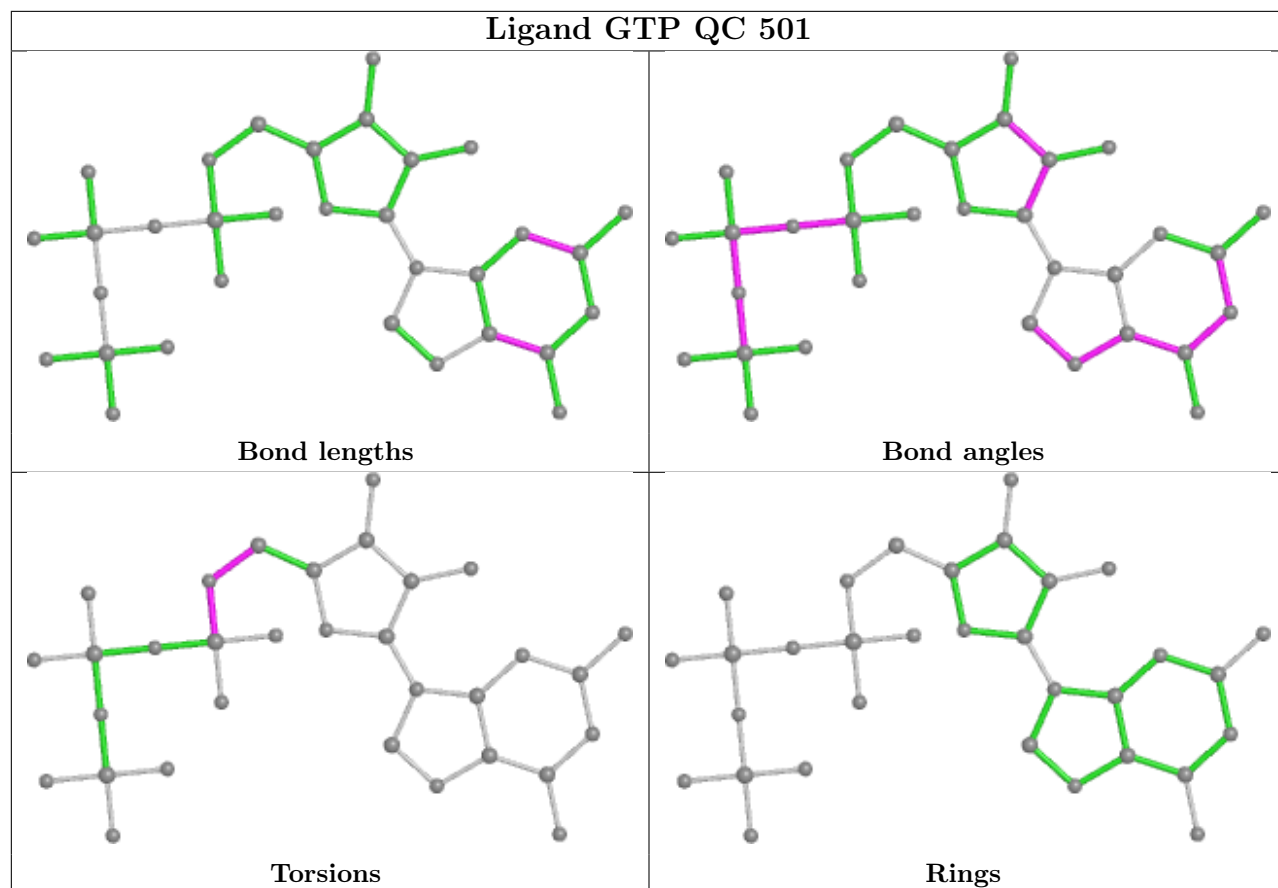


Ligand GTP BK 501

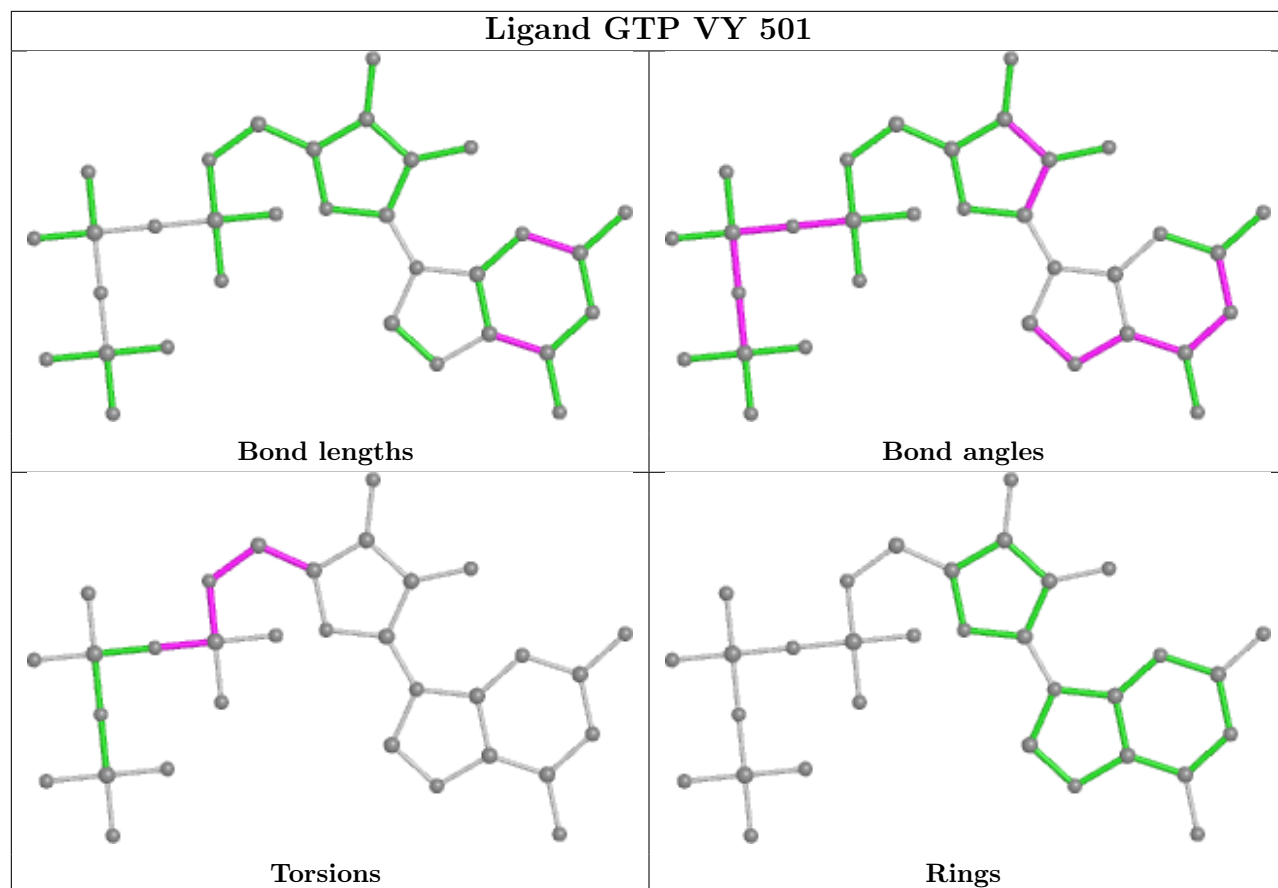


Ligand GDP CP 501

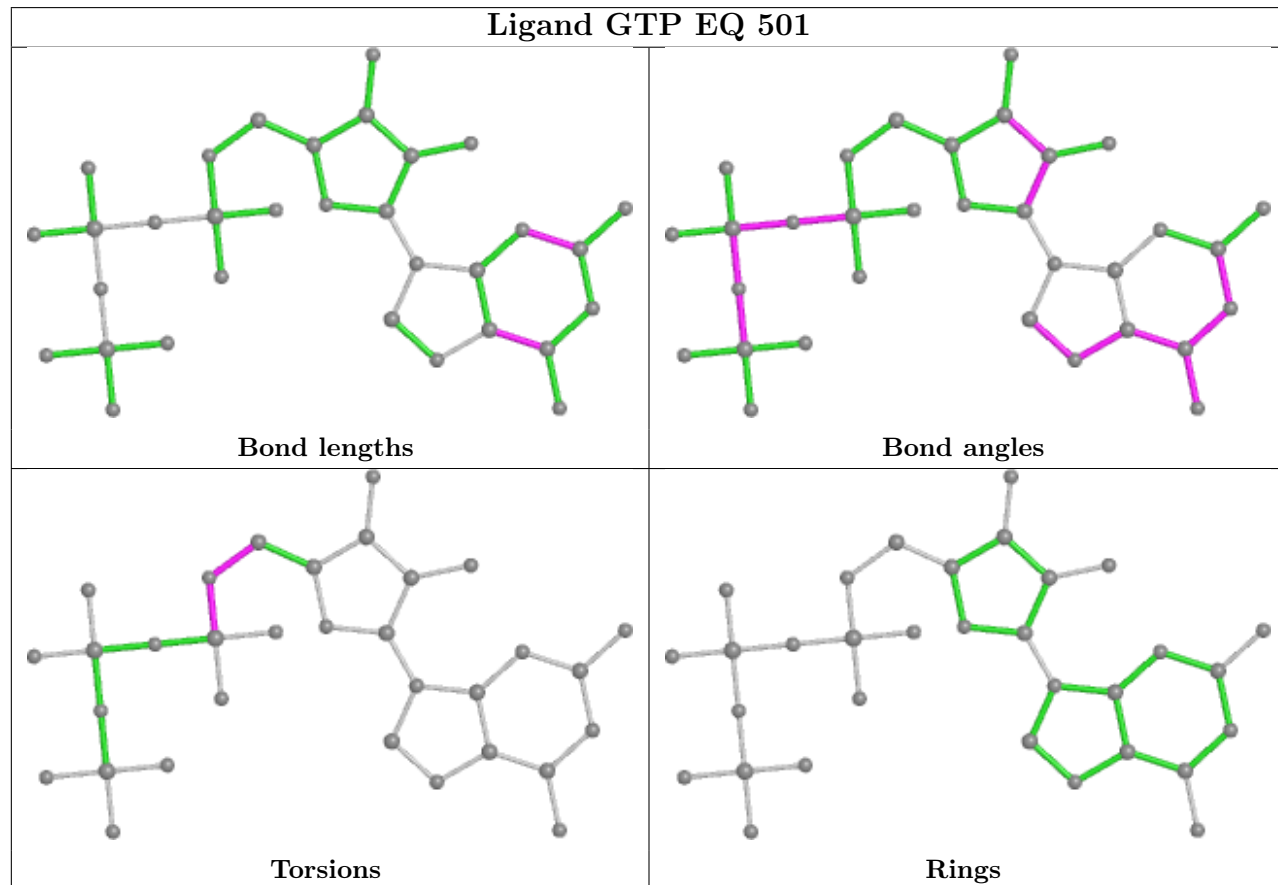




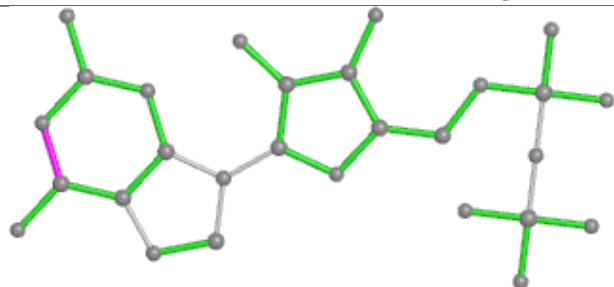
Ligand GTP VY 501



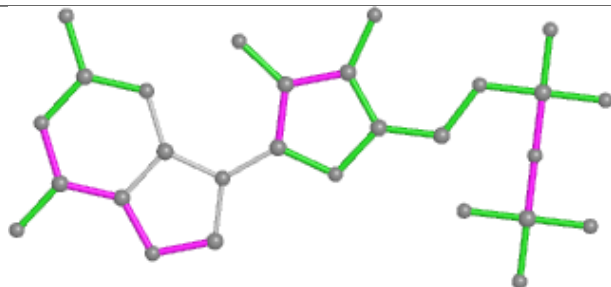
Ligand GTP EQ 501



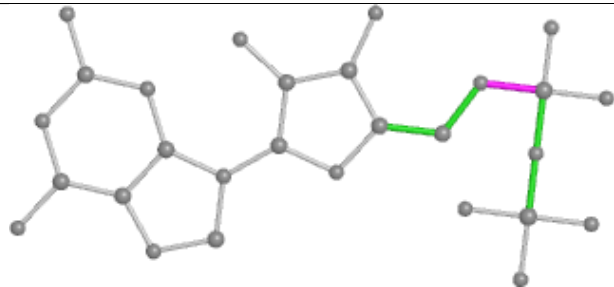
Ligand GDP ON 501



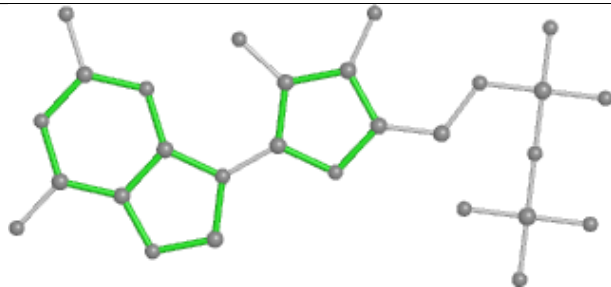
Bond lengths



Bond angles

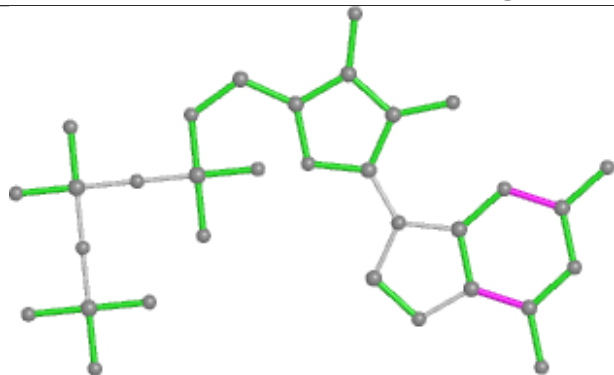


Torsions

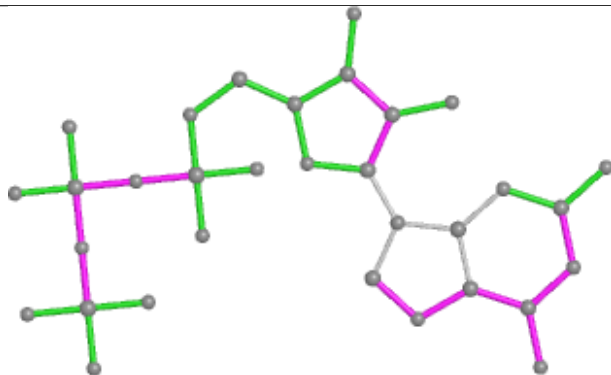


Rings

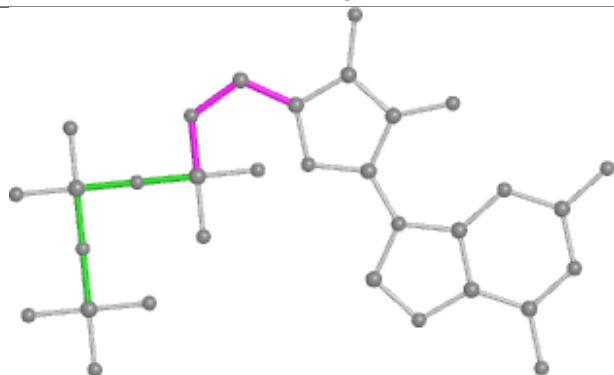
Ligand GTP CU 501



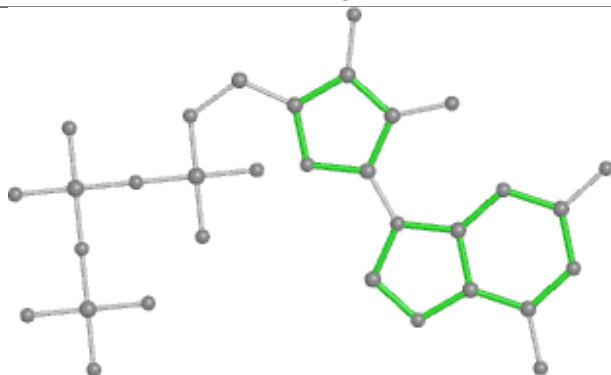
Bond lengths



Bond angles

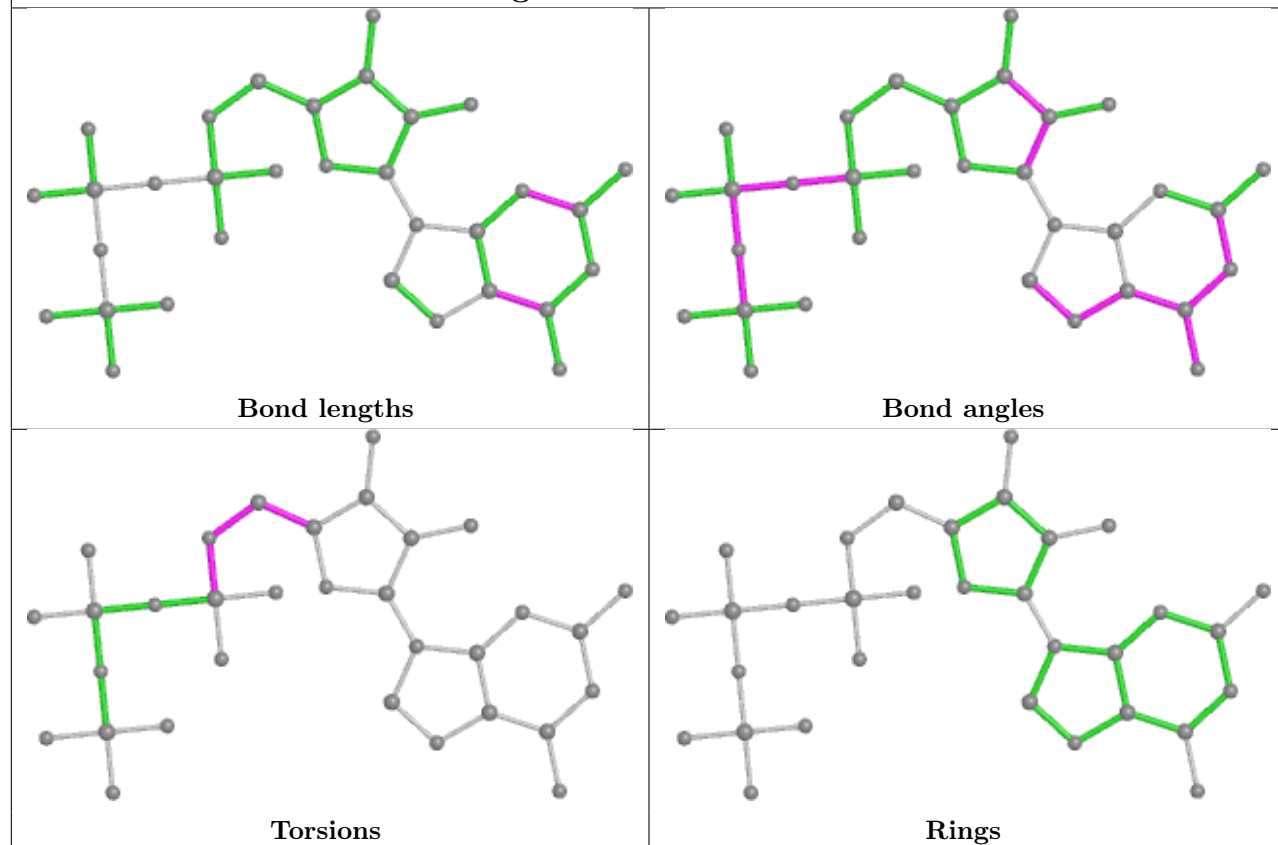


Torsions

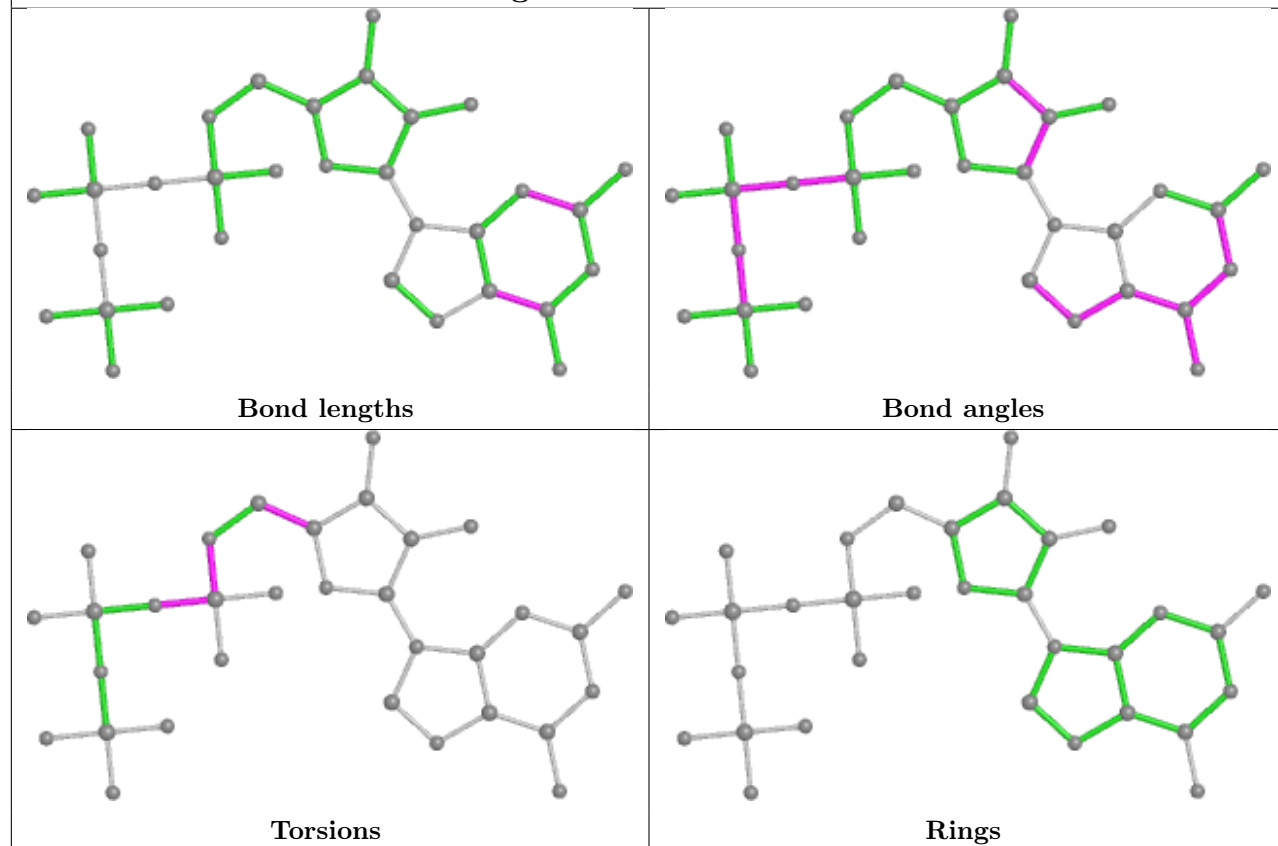


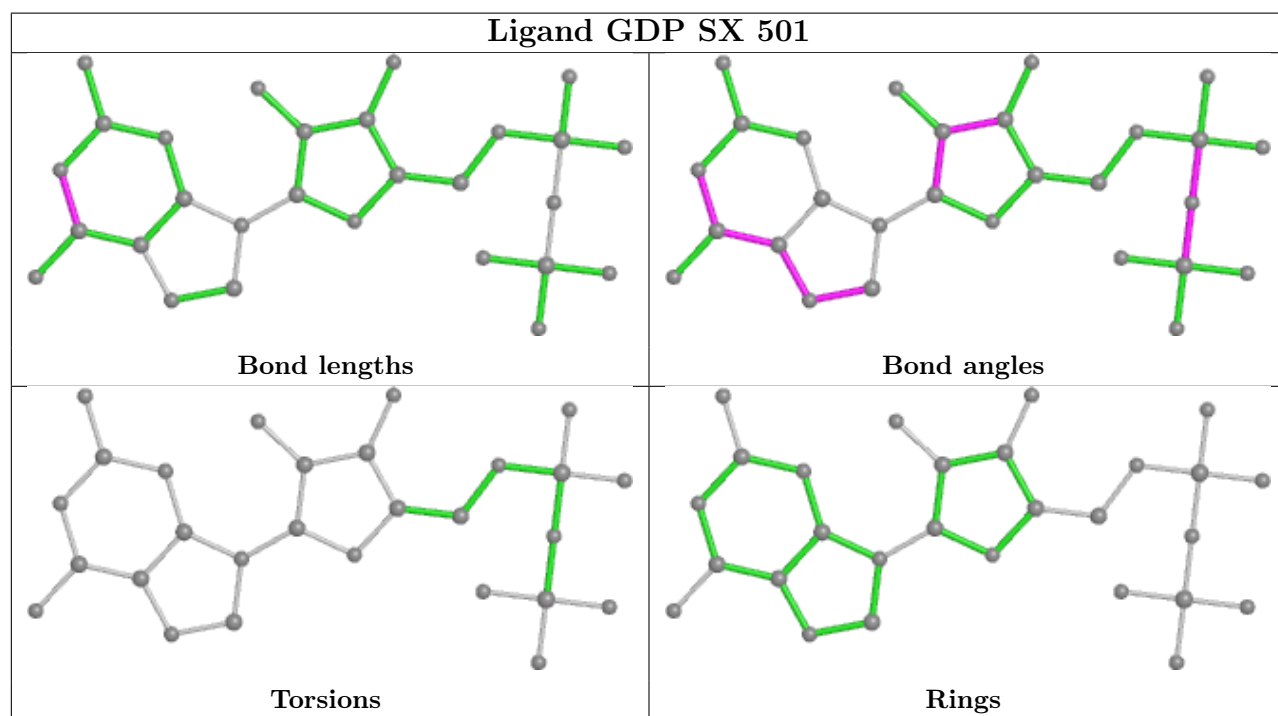
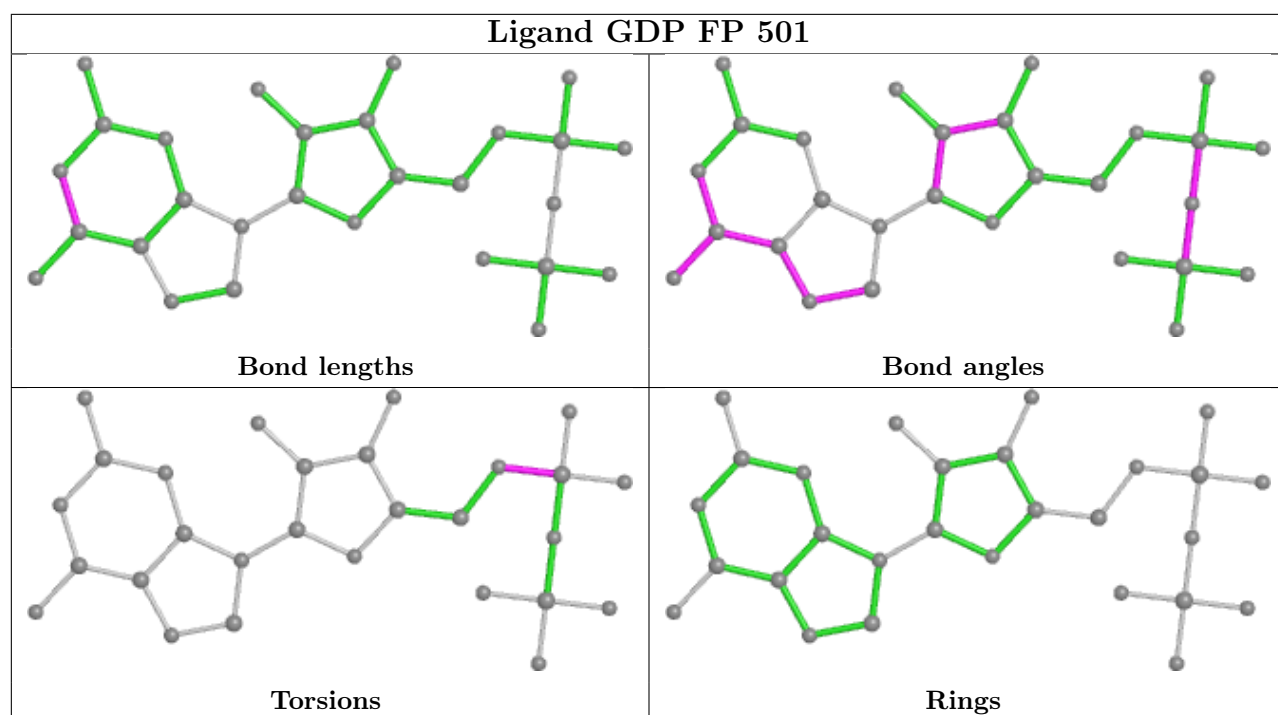
Rings

Ligand GTP DW 501

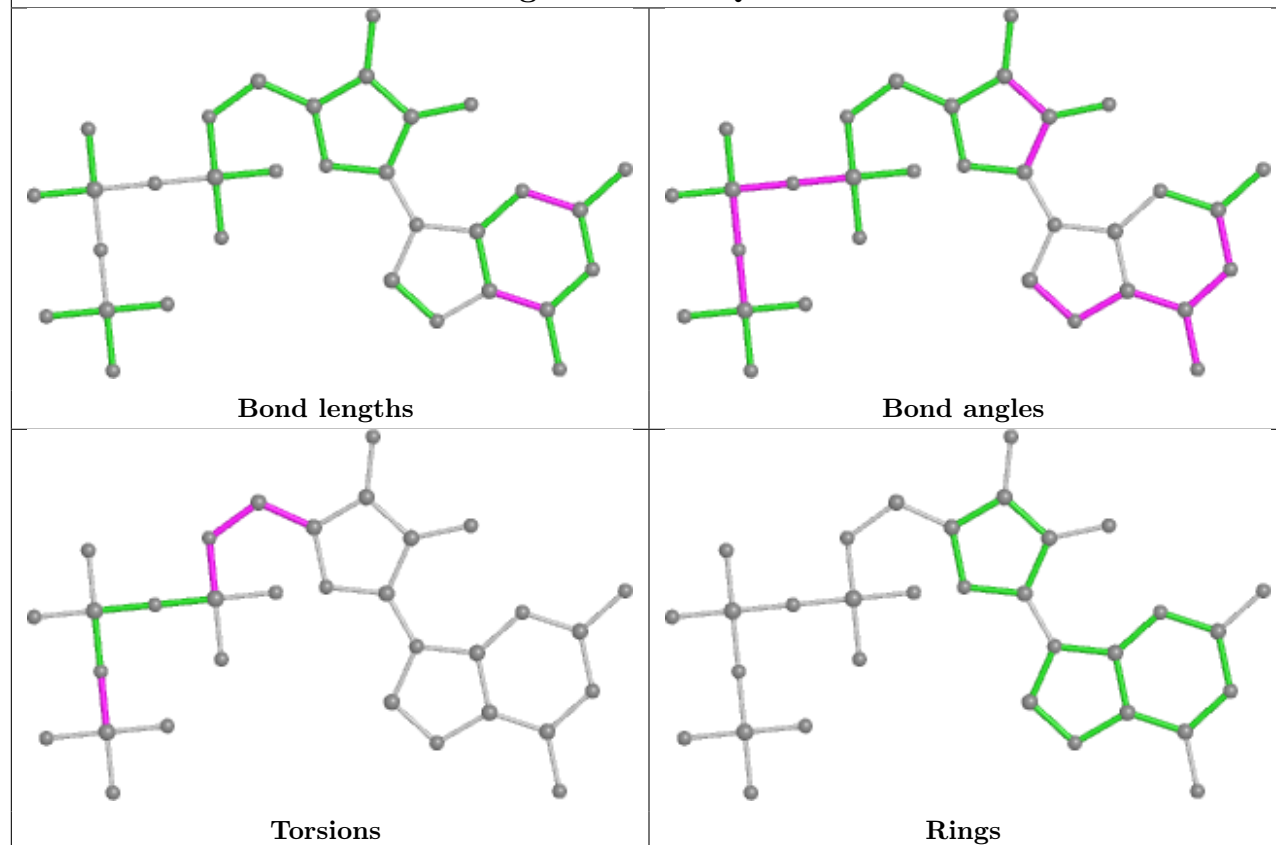


Ligand GTP WU 501

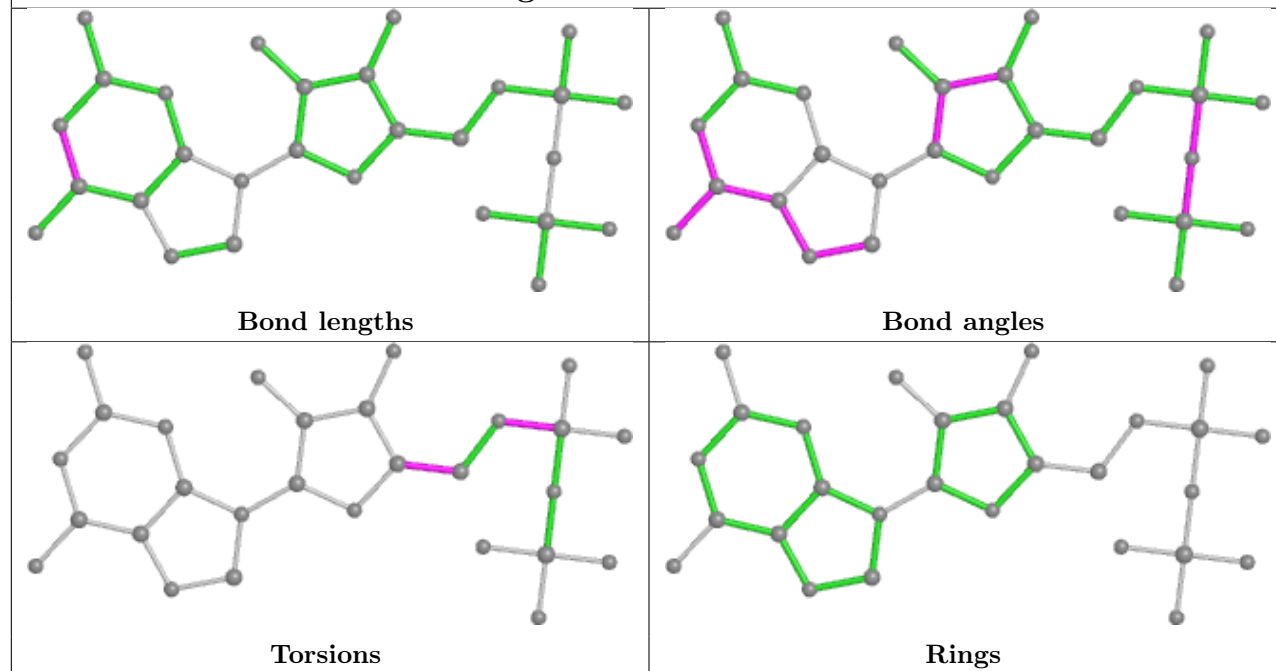




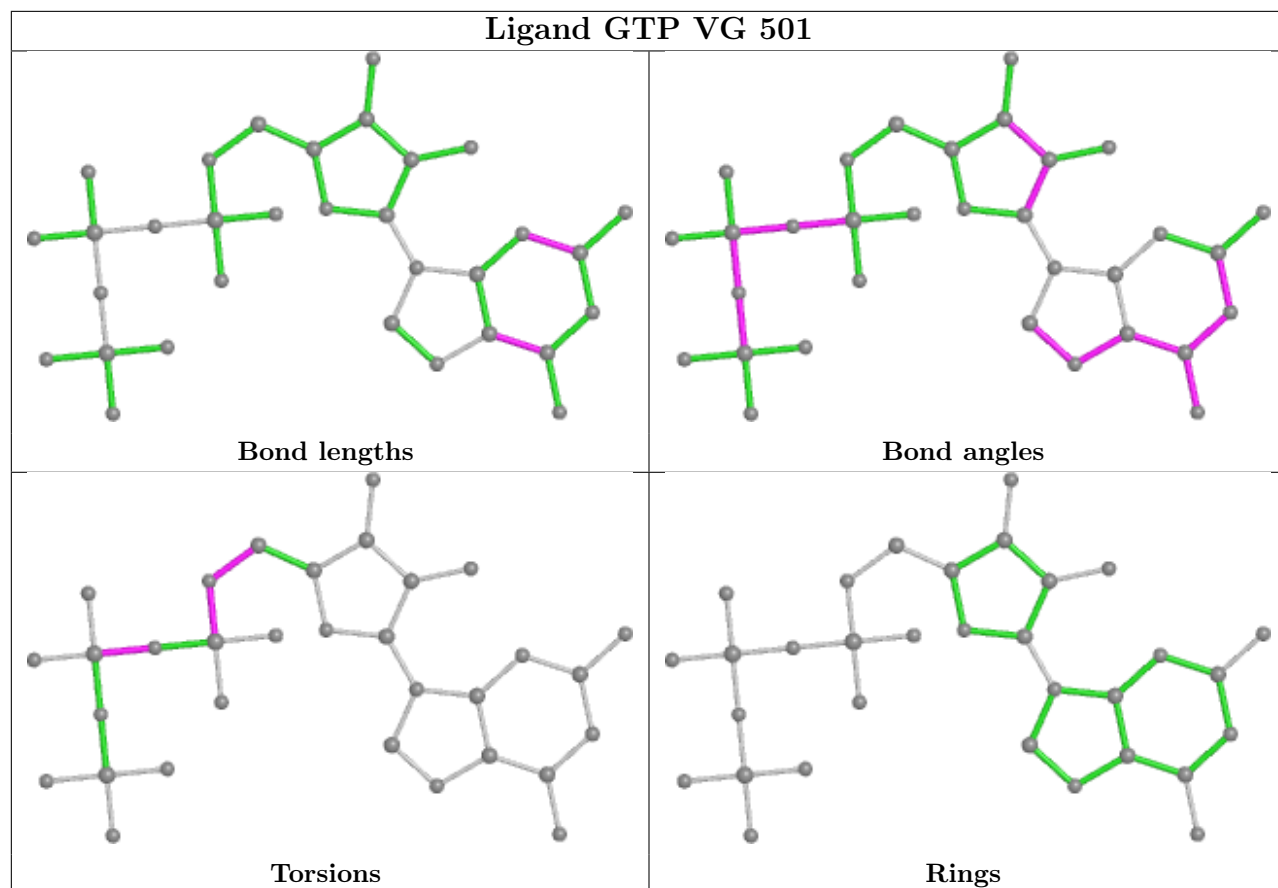
Ligand GTP LQ 501



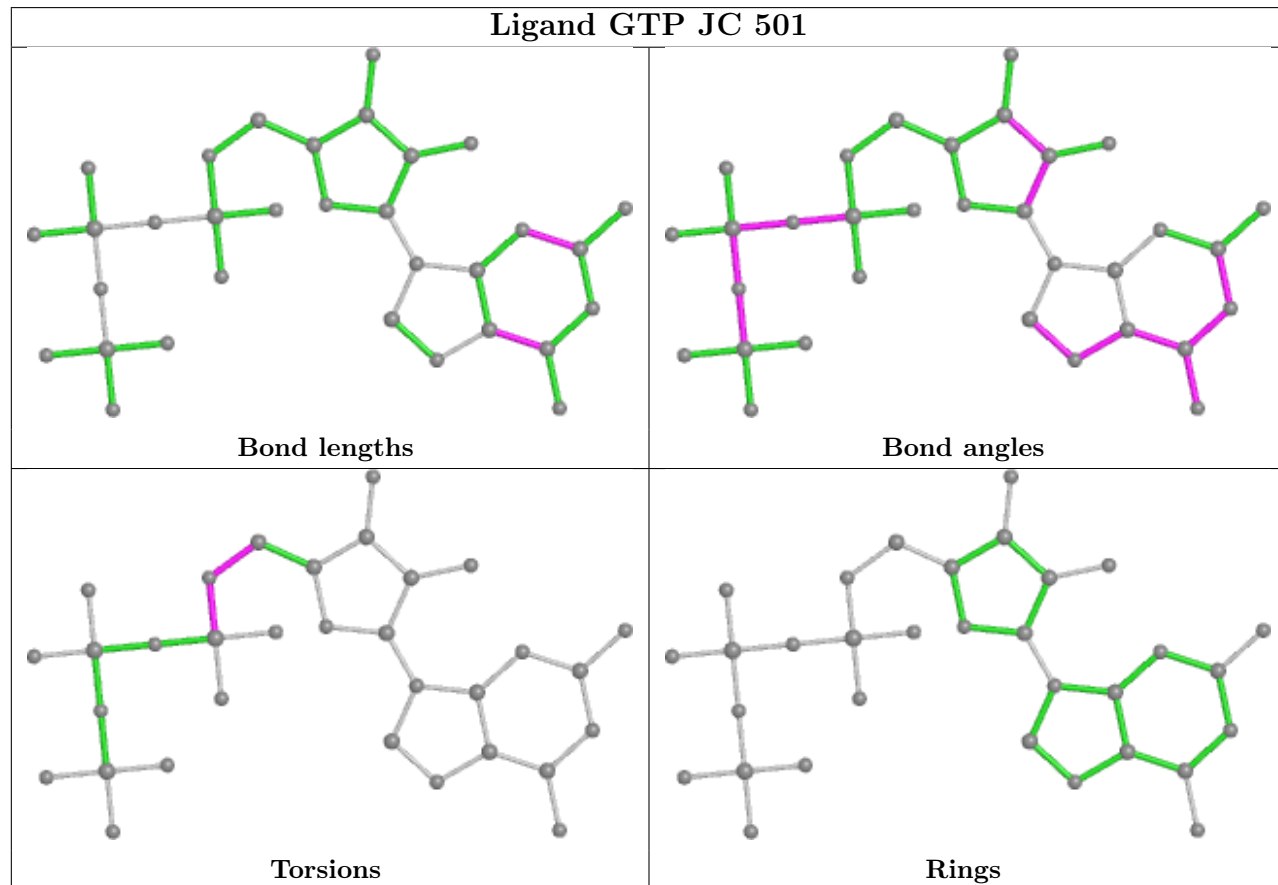
Ligand GDP ER 501



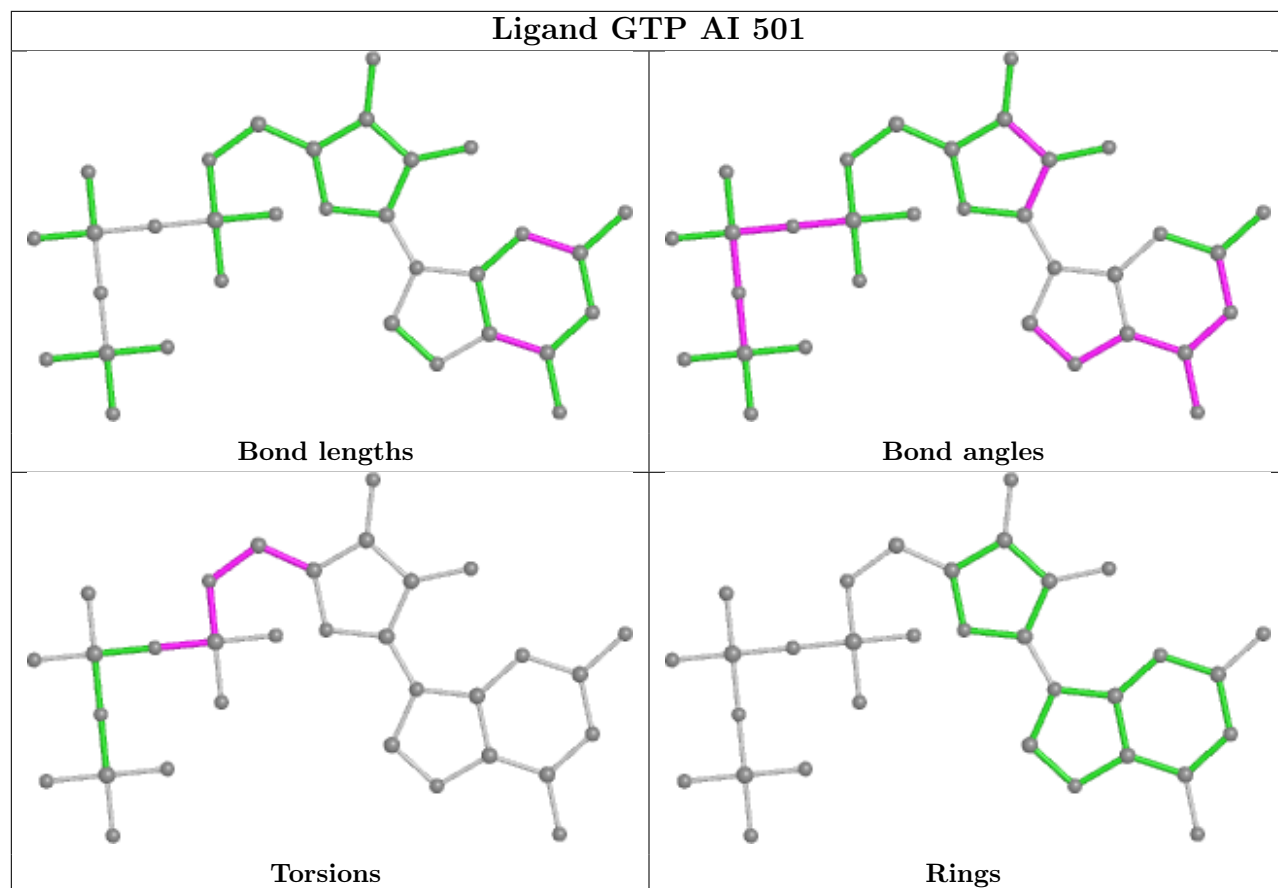
Ligand GTP VG 501



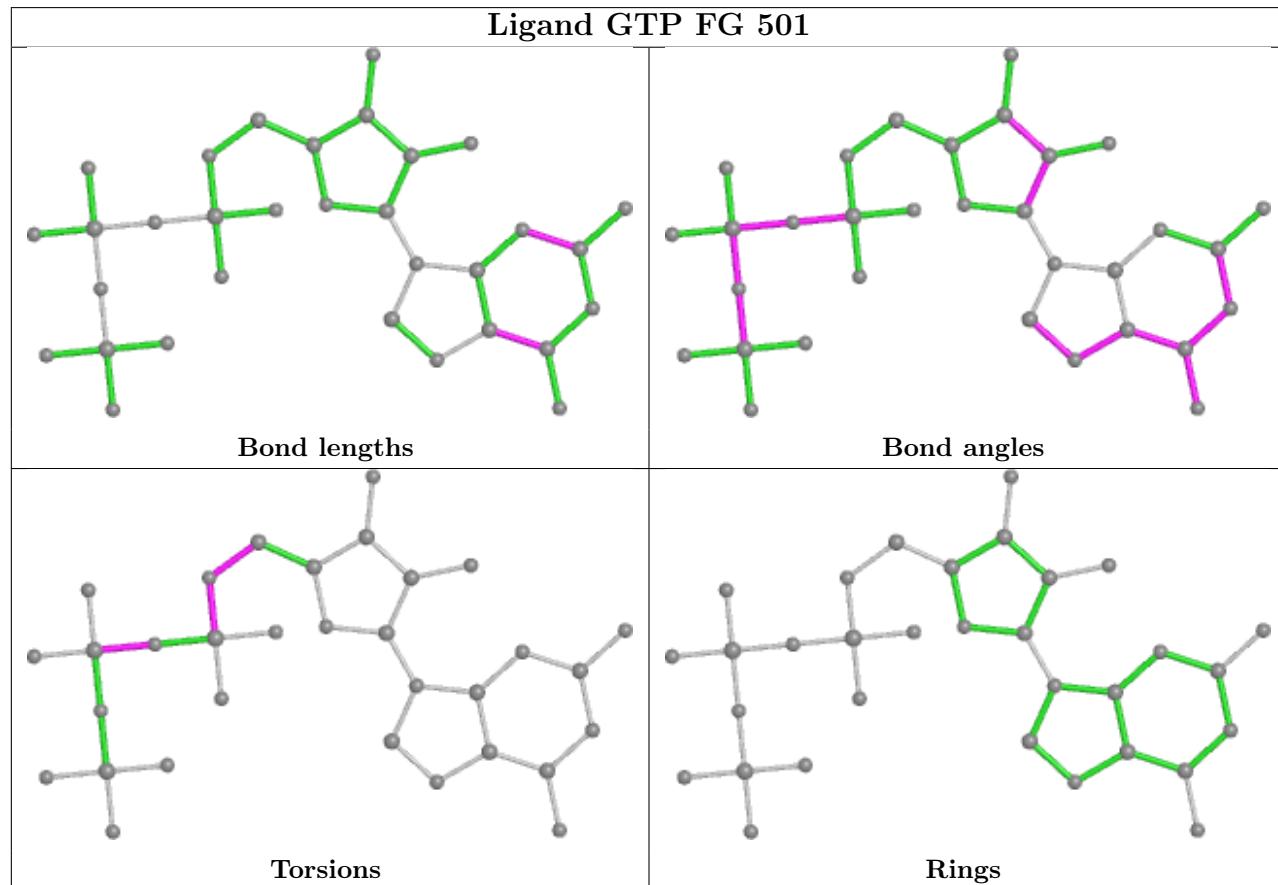
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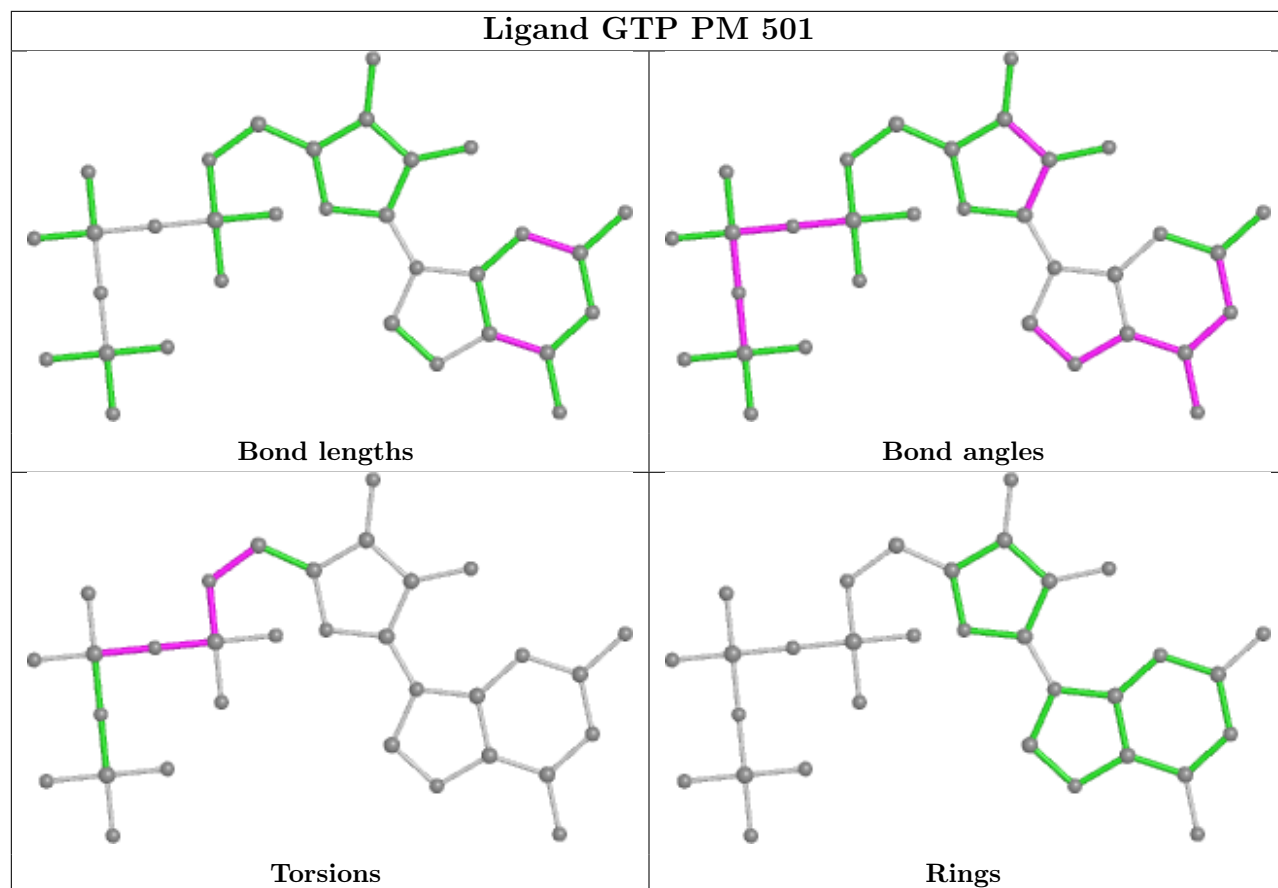
Ligand GTP AI 501



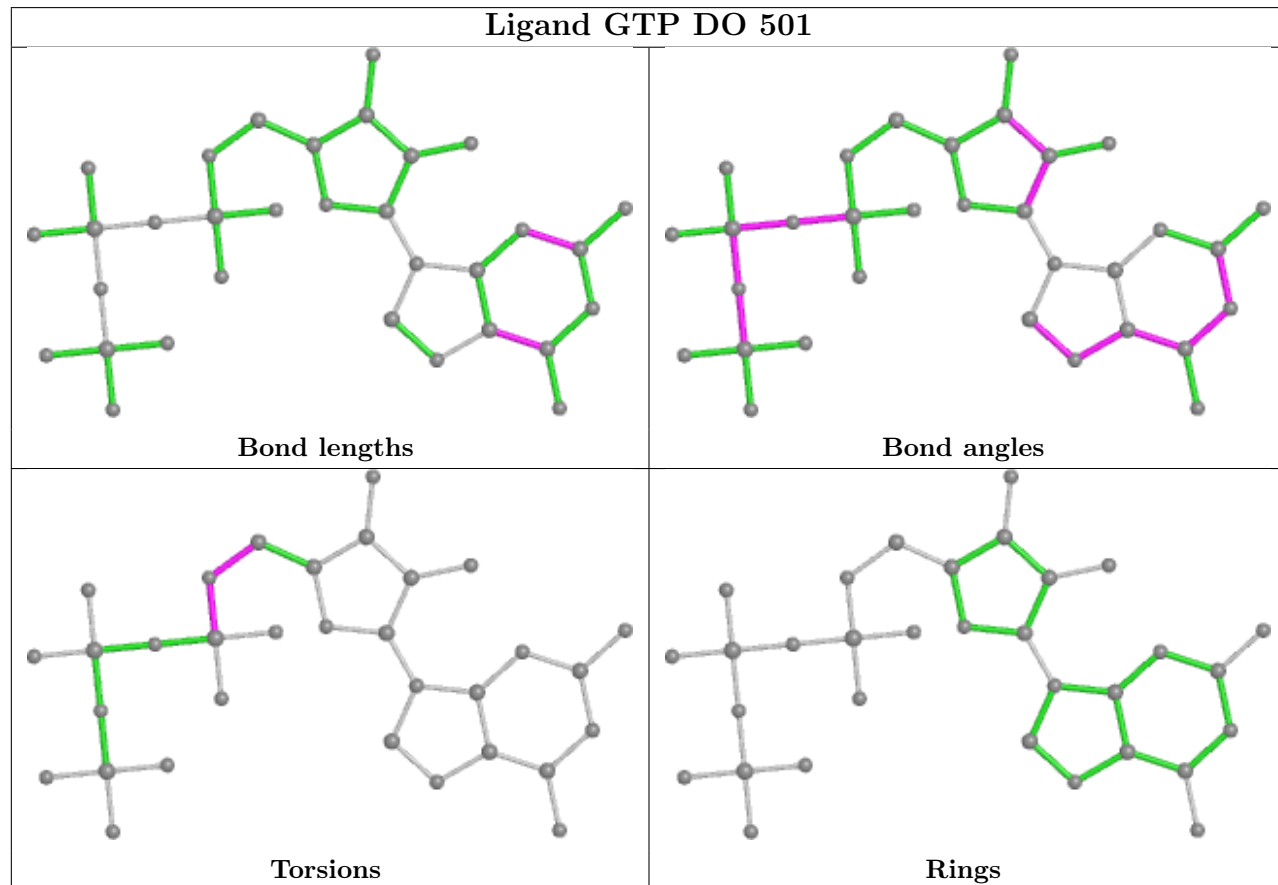
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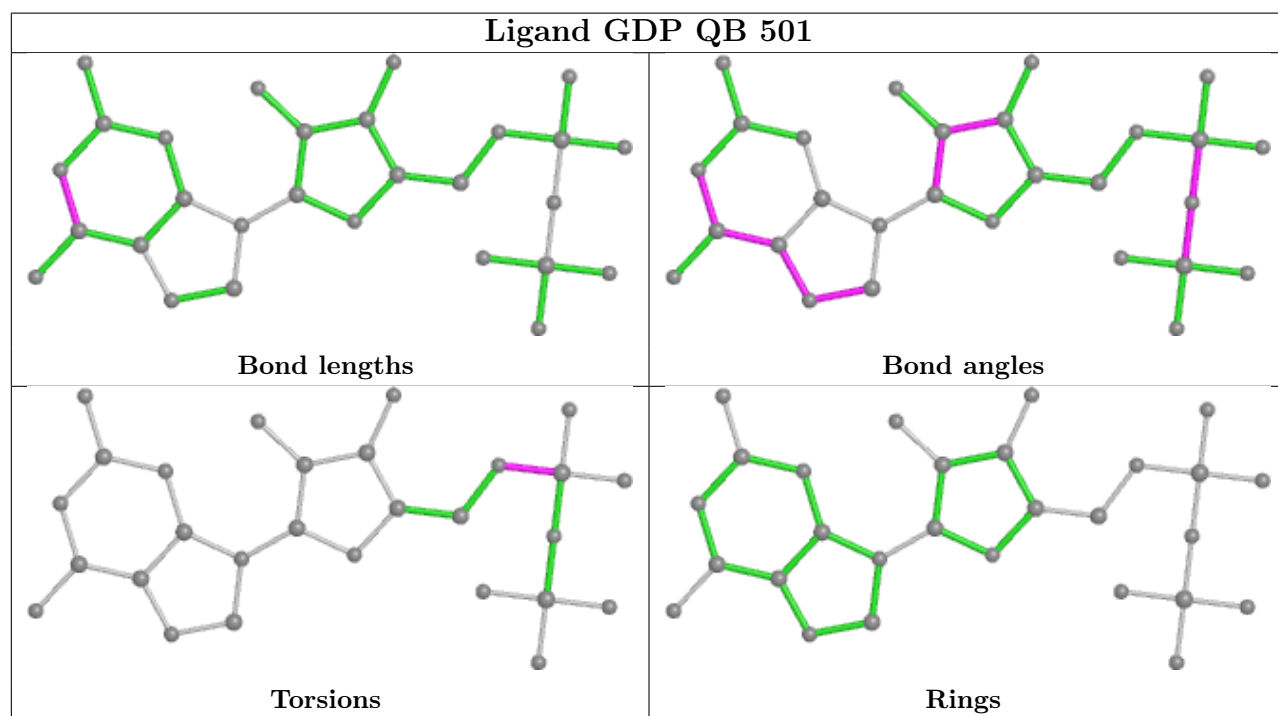
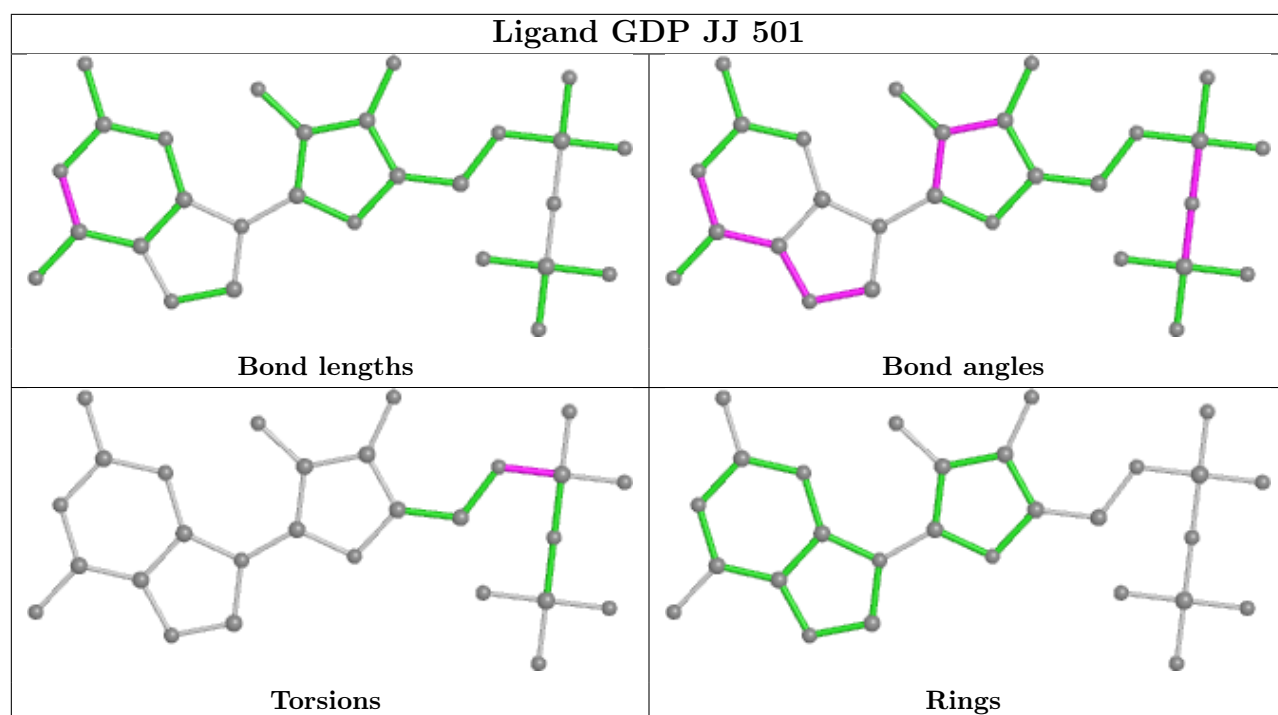


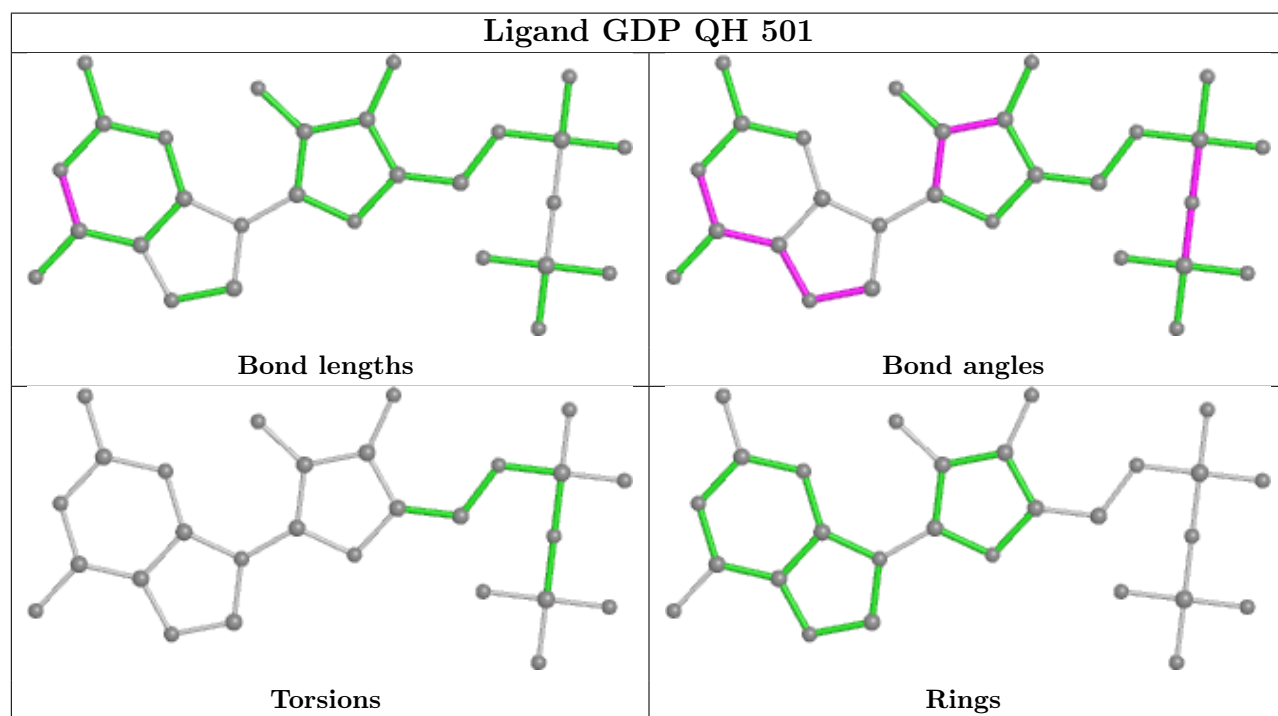
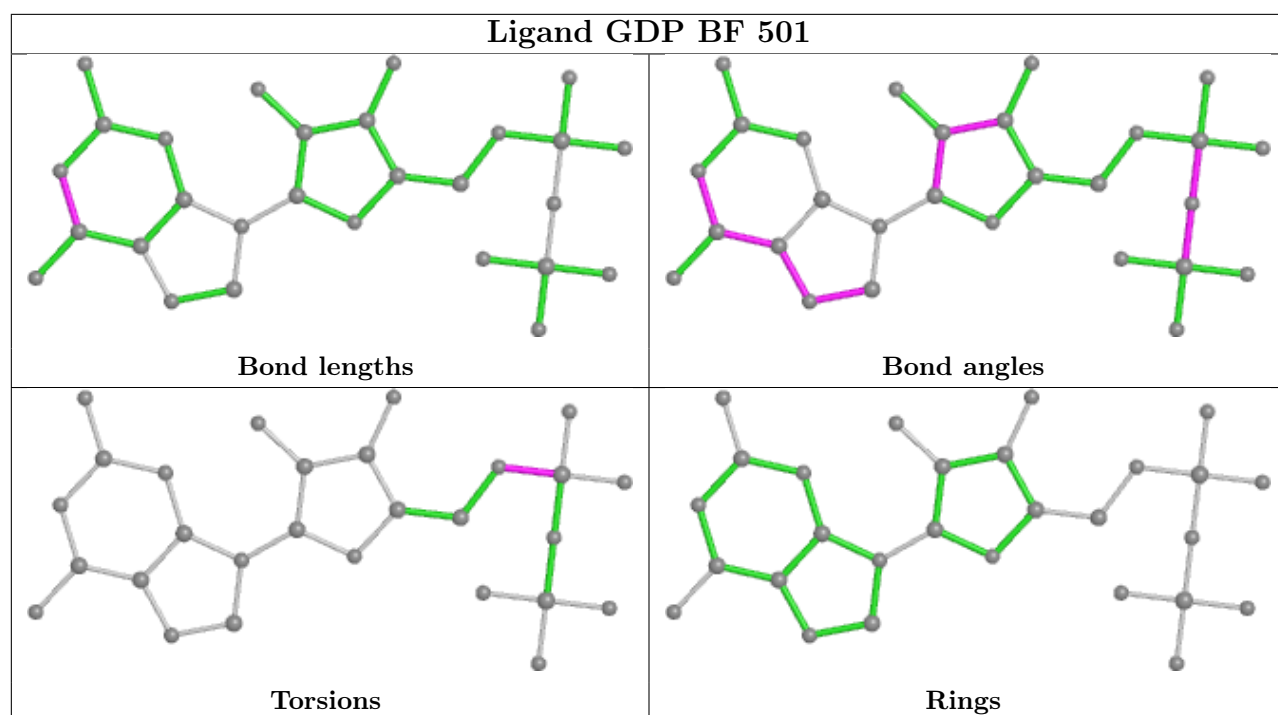
Ligand GTP PM 501



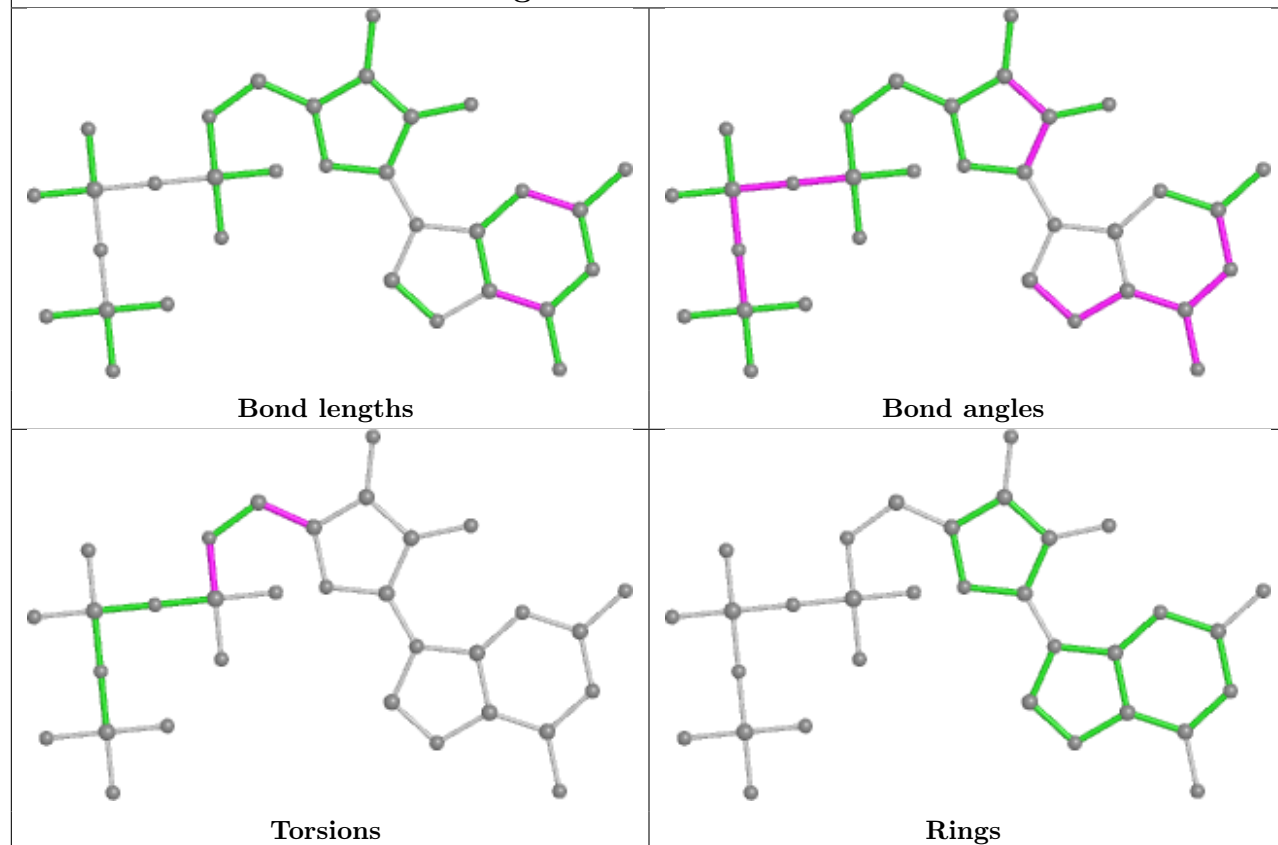
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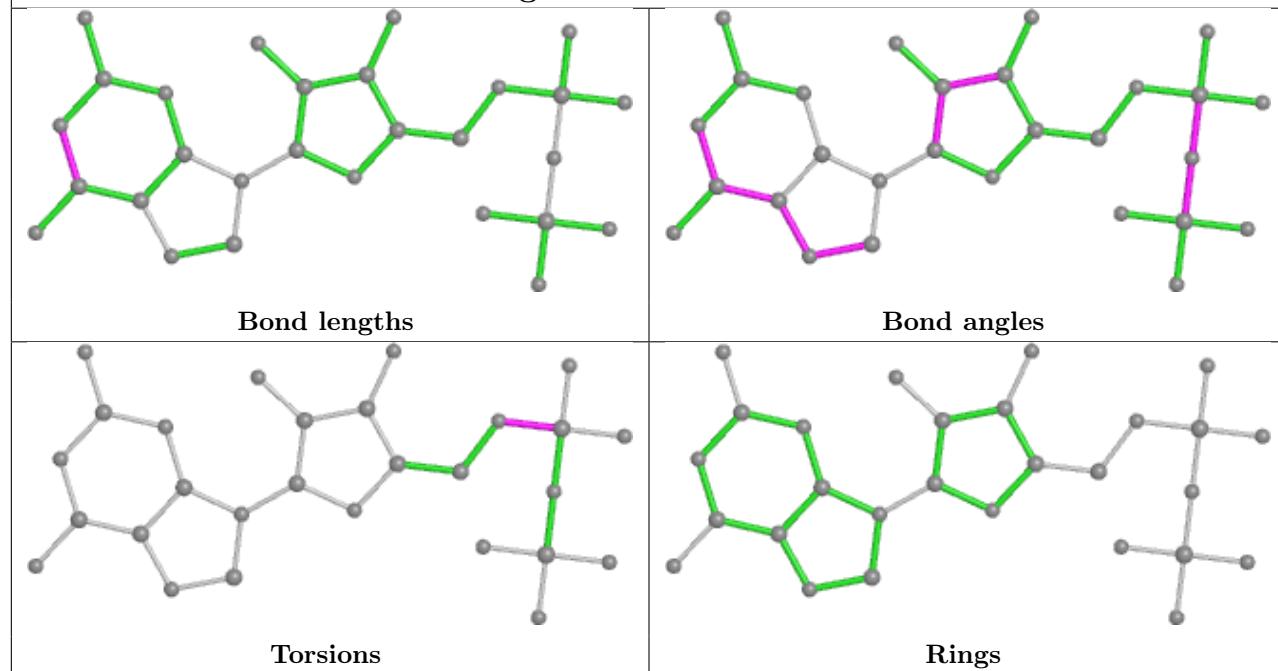


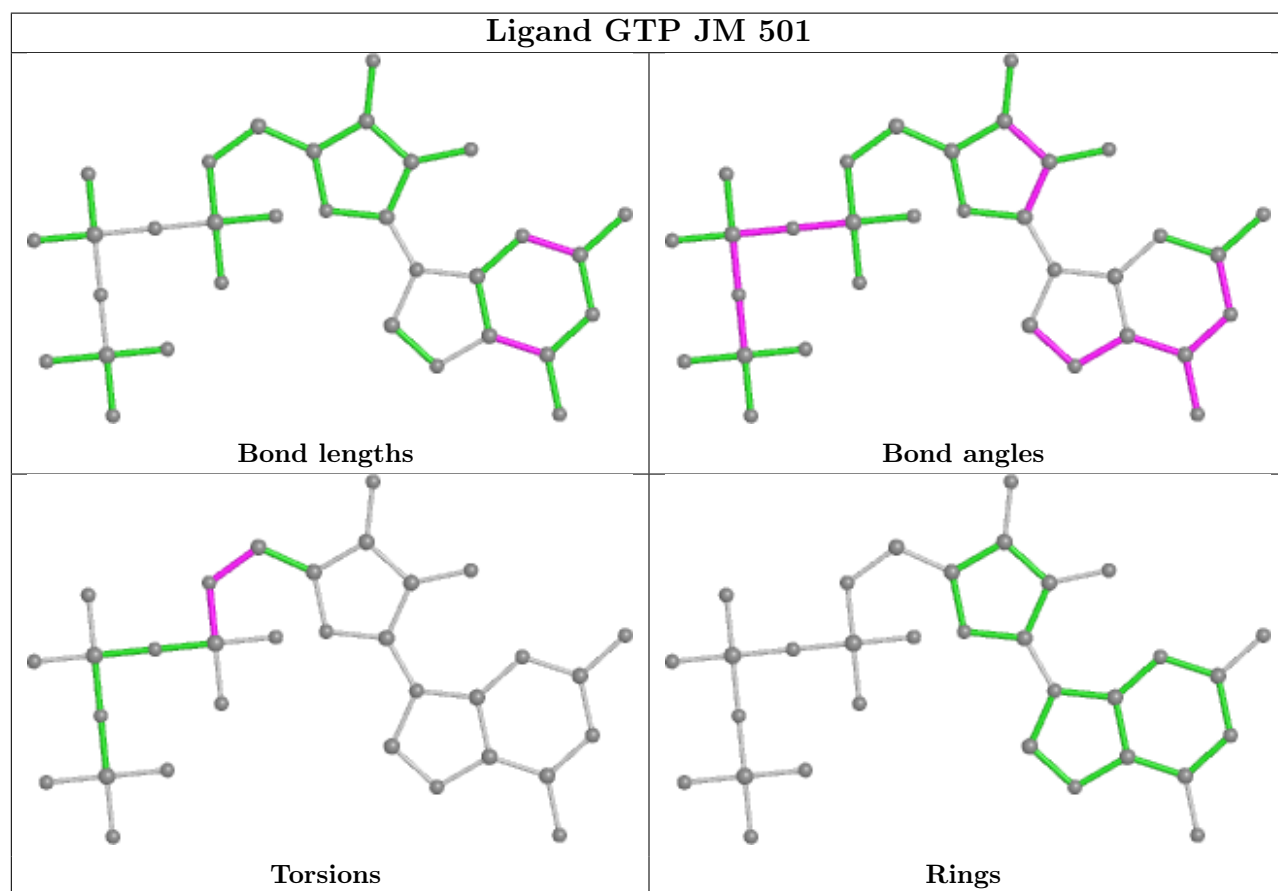
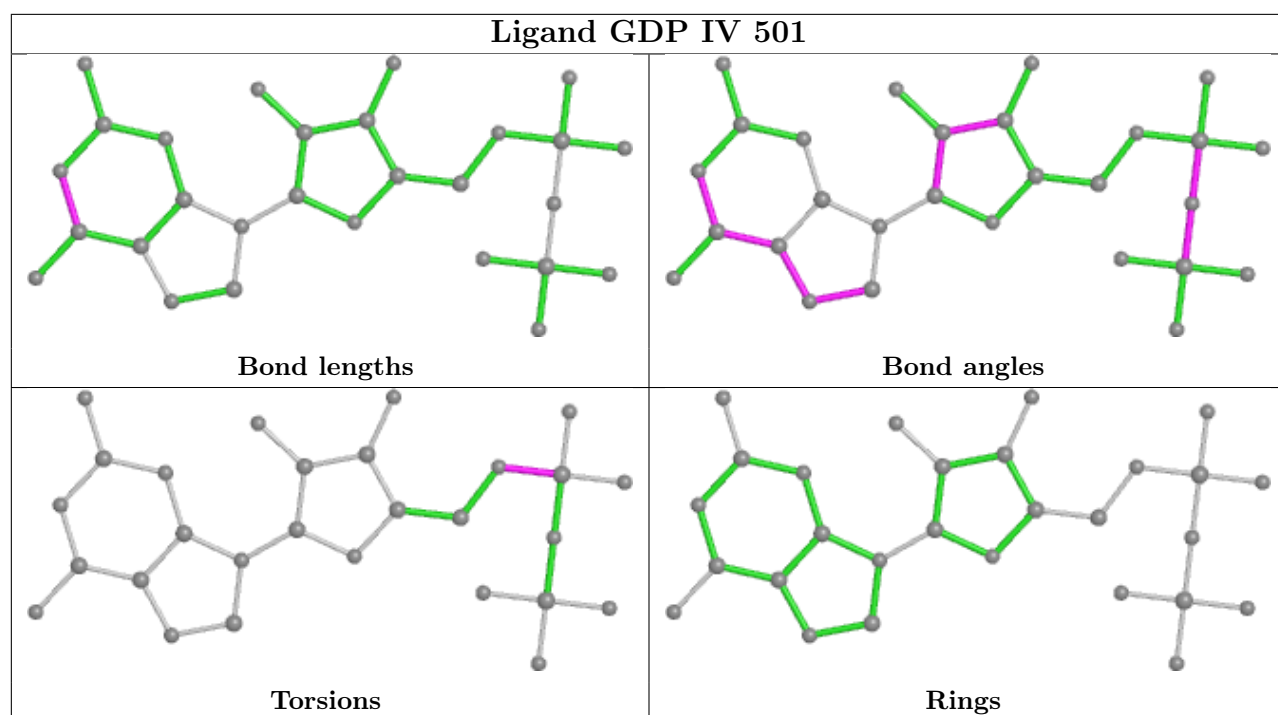


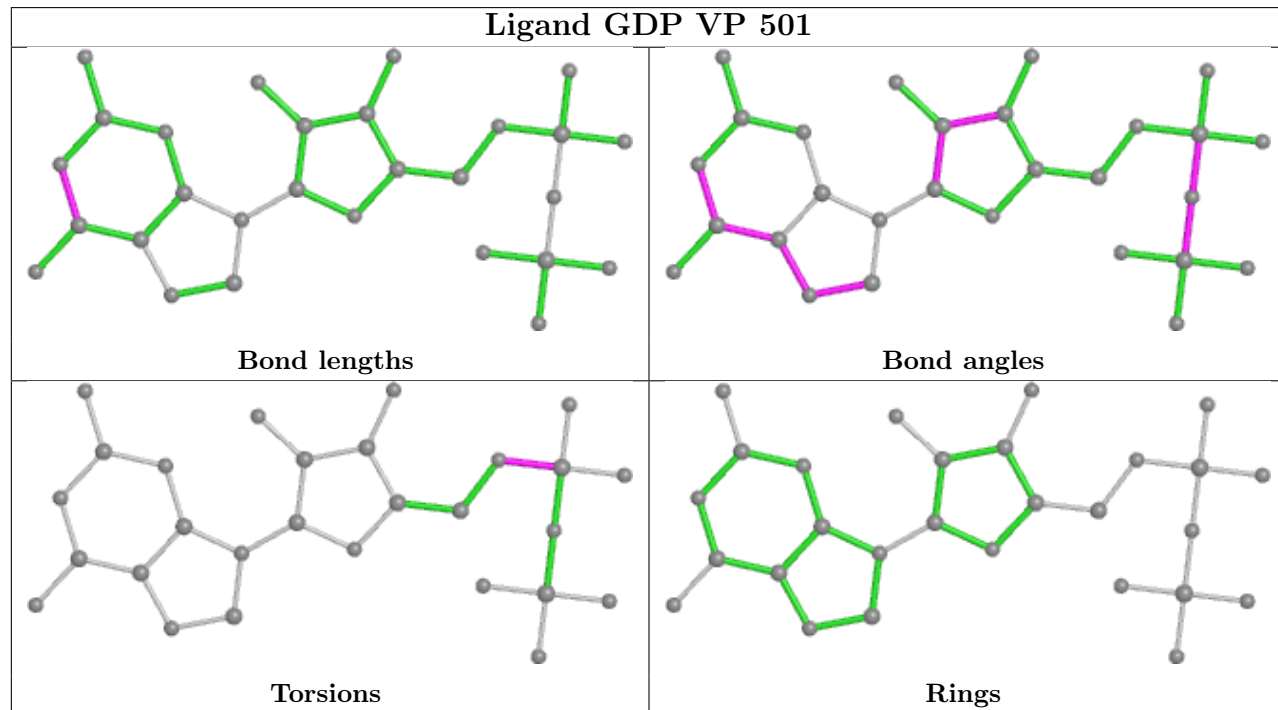
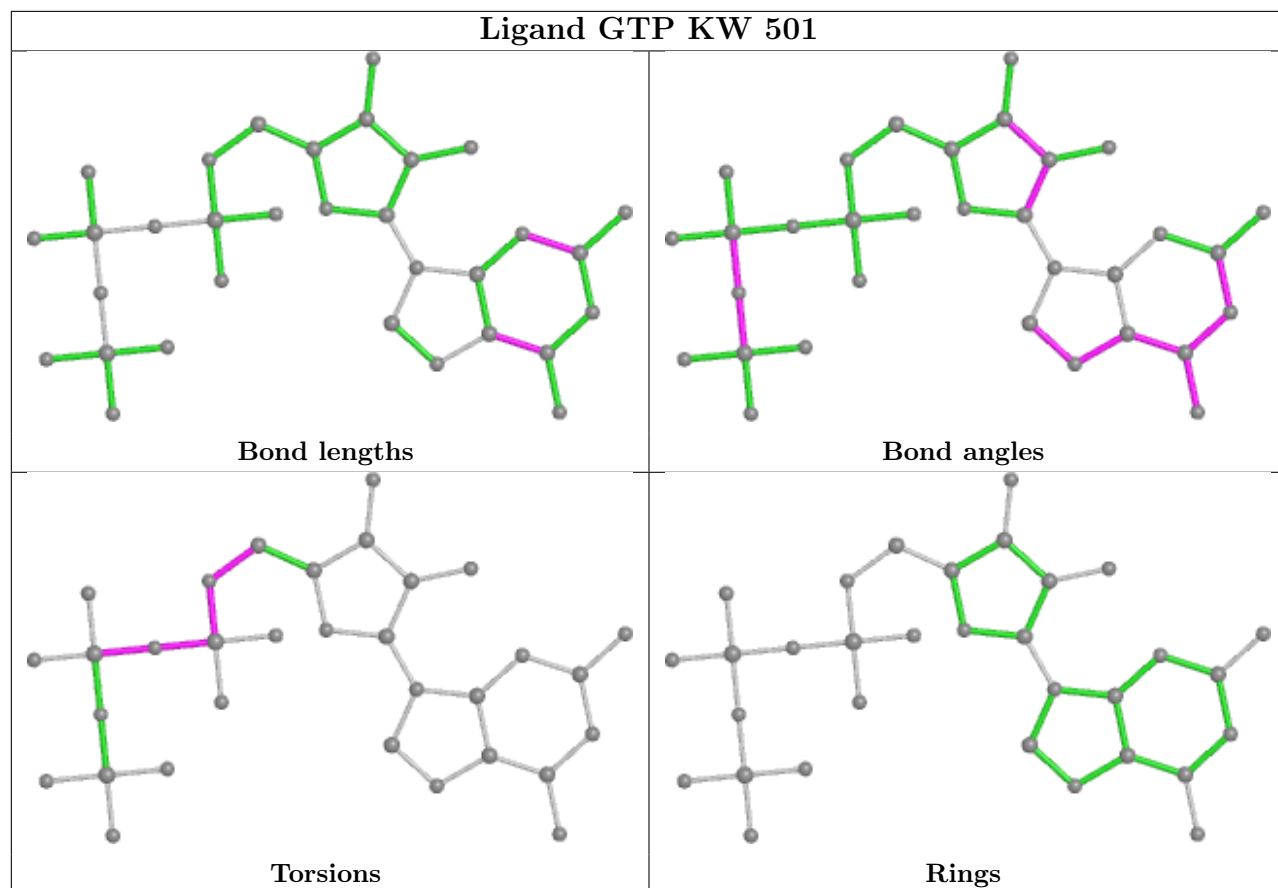
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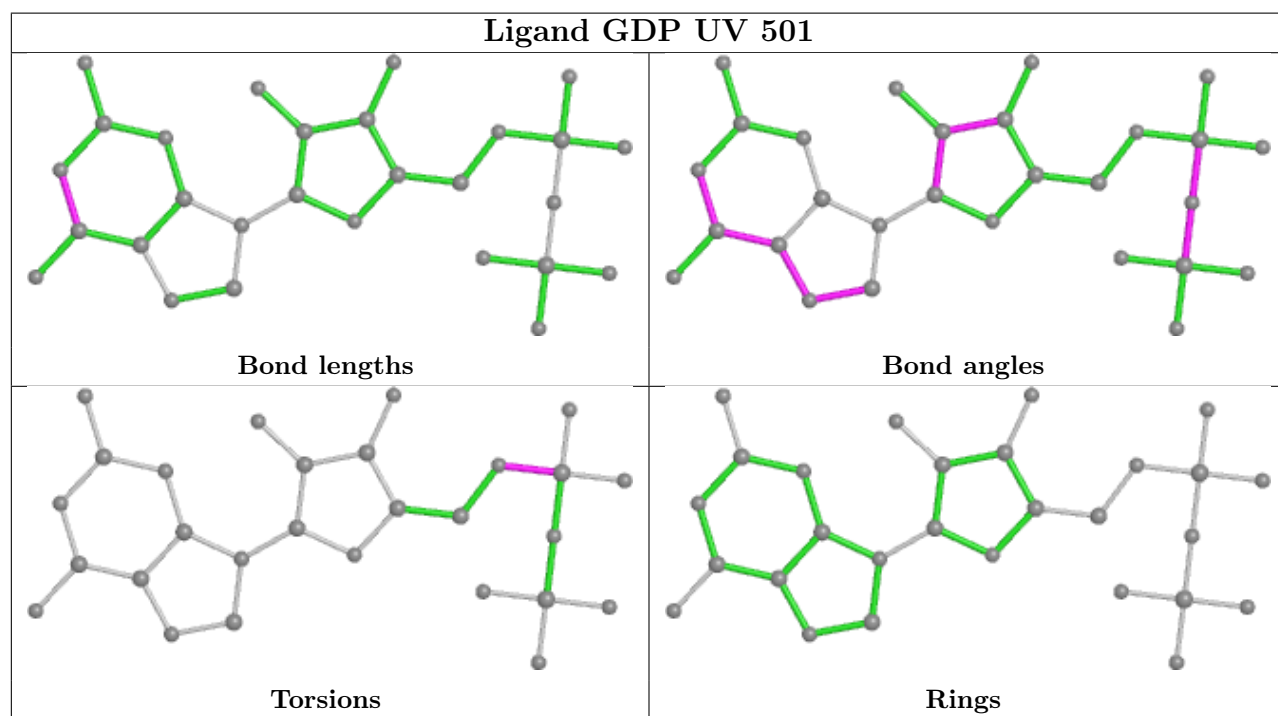
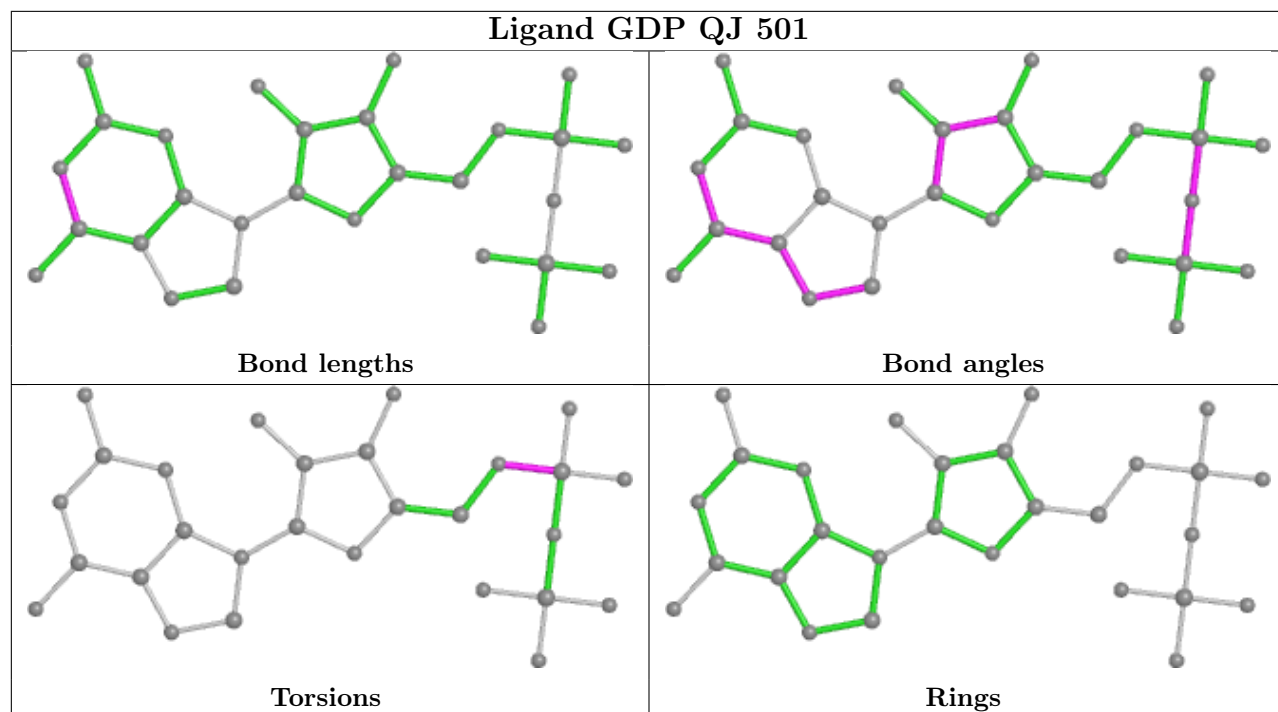


Ligand GDP UJ 501

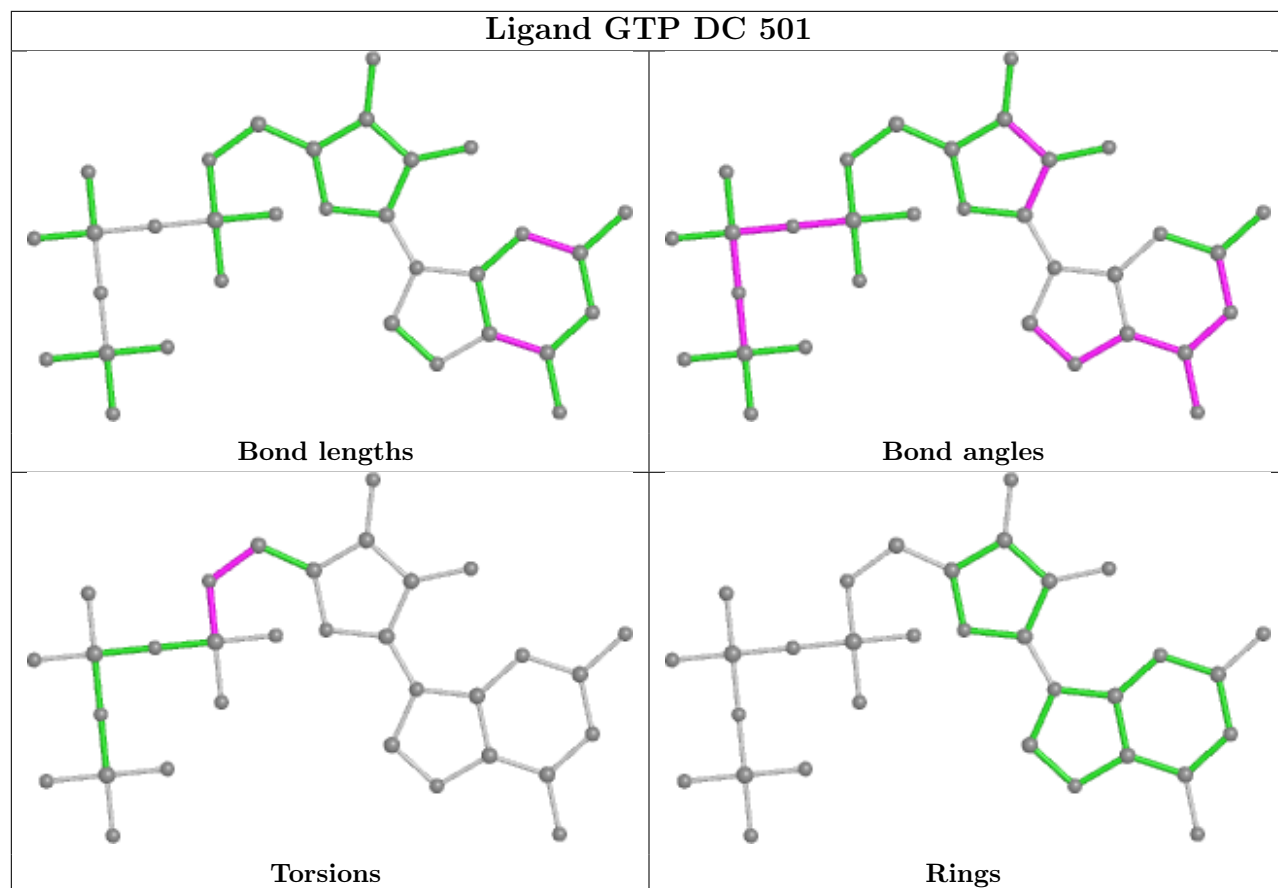




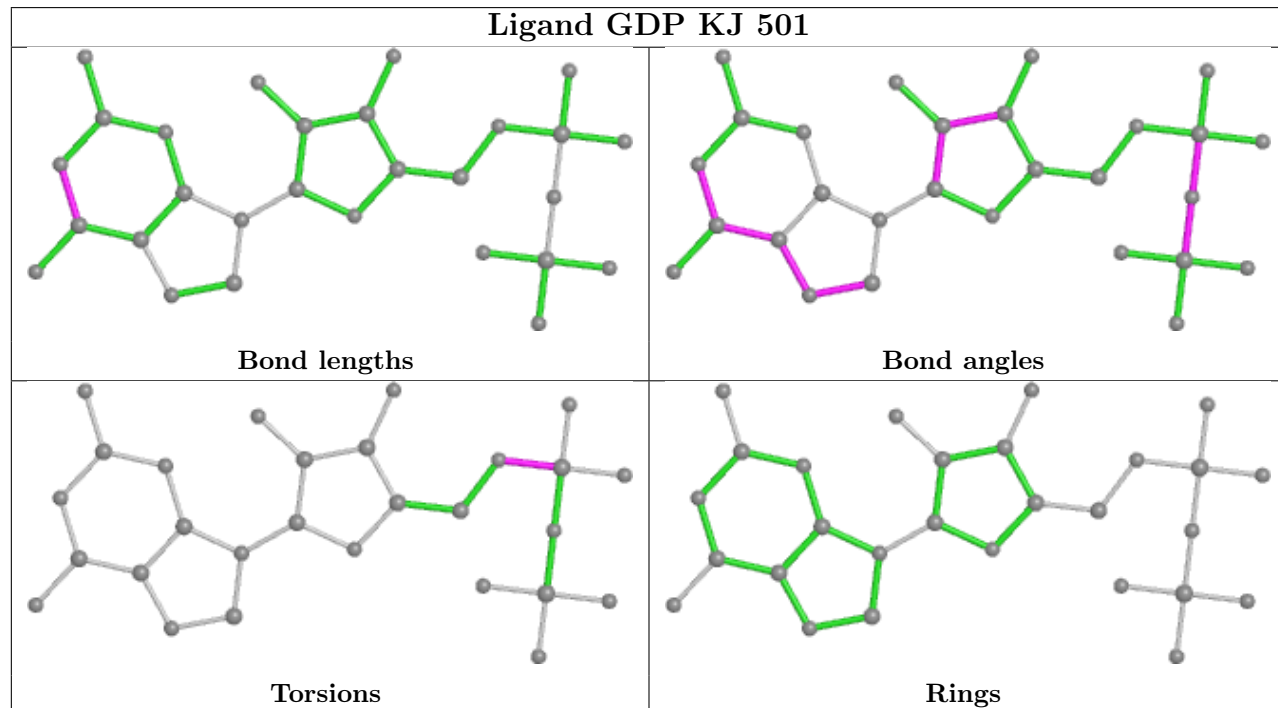




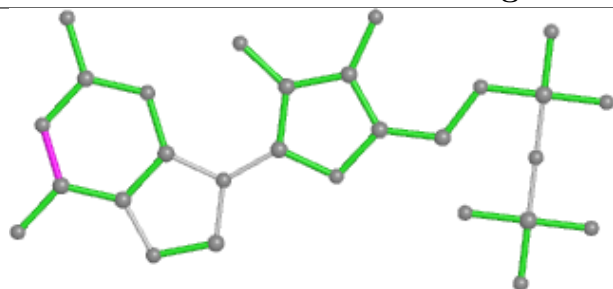
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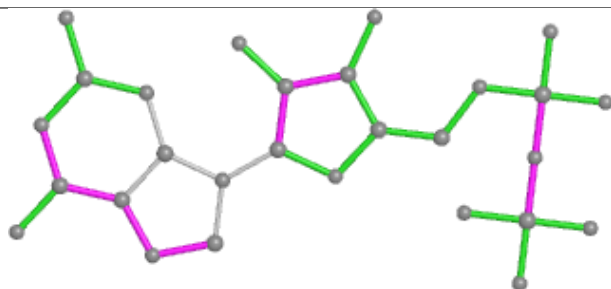
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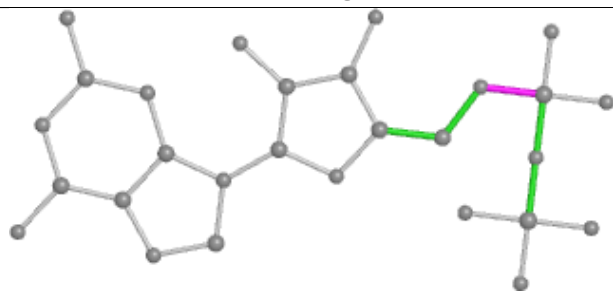
Ligand GDP LP 501



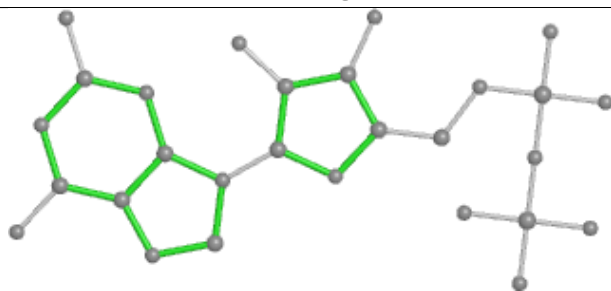
Bond lengths



Bond angles

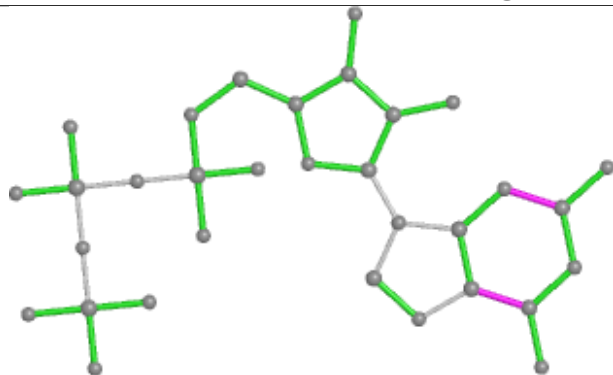


Torsions

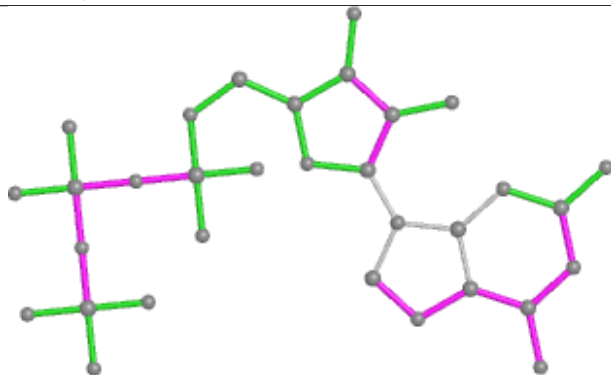


Rings

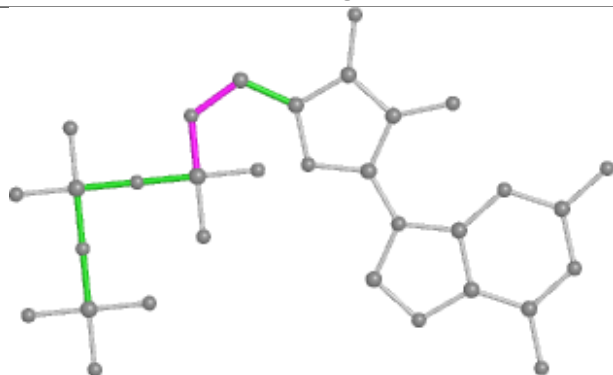
Ligand GTP UQ 501



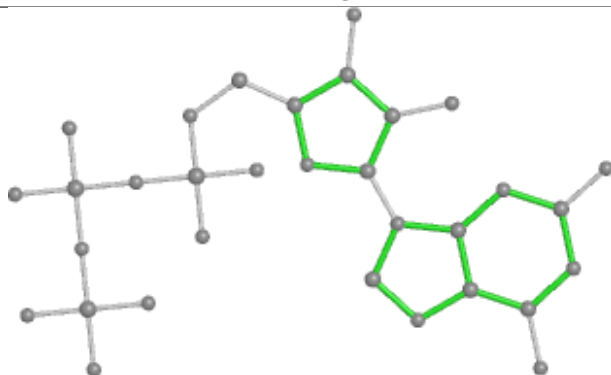
Bond lengths



Bond angles

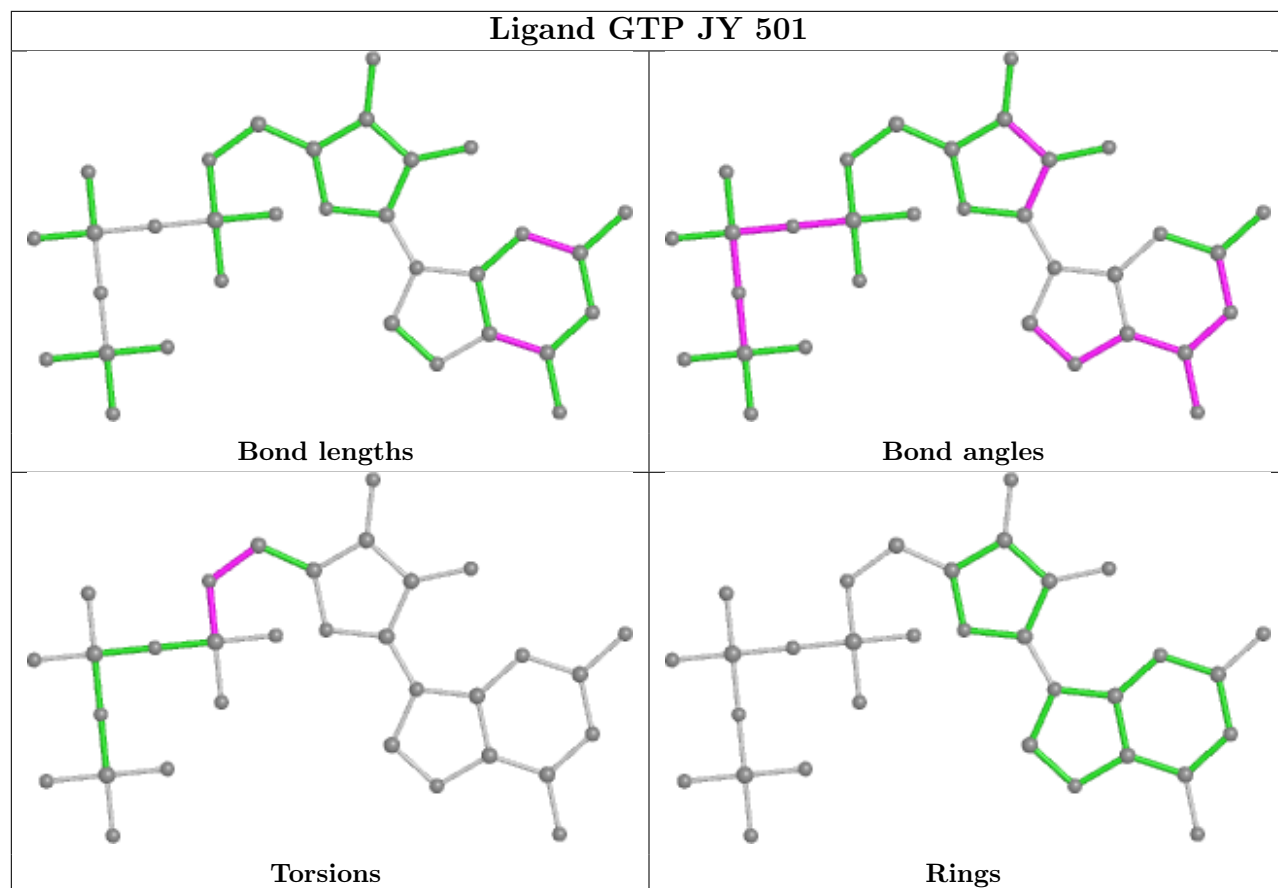


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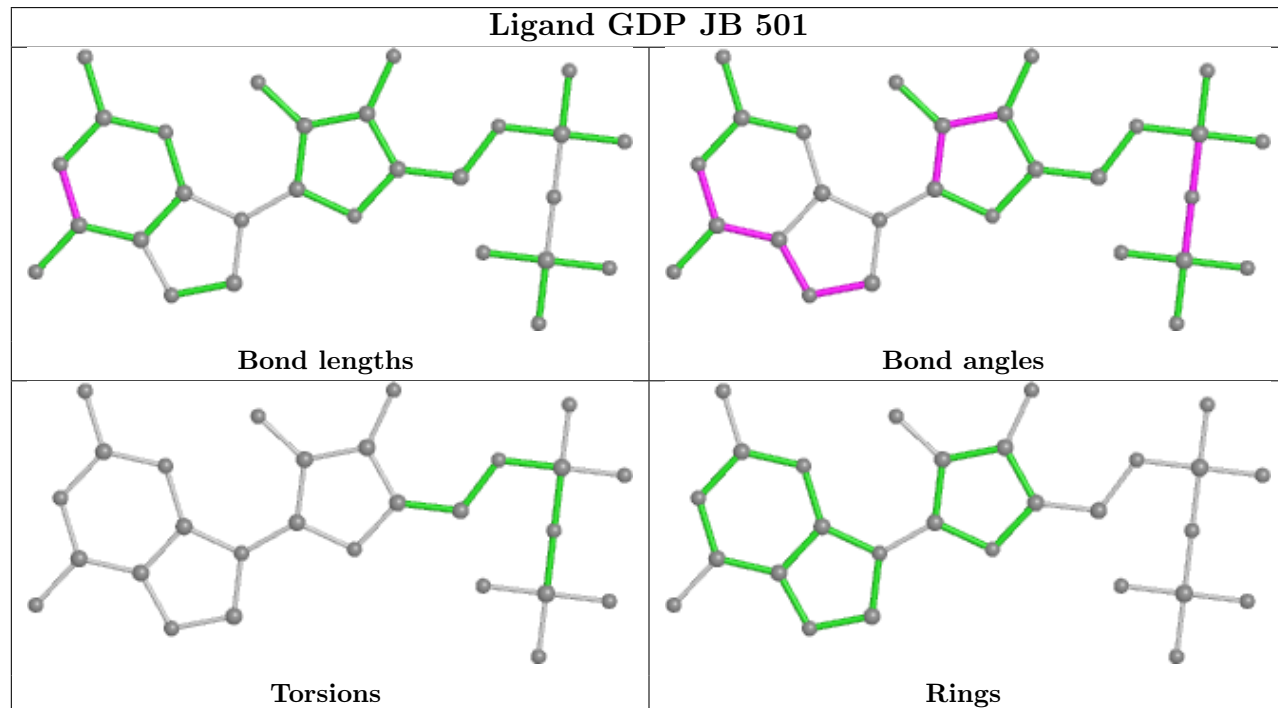


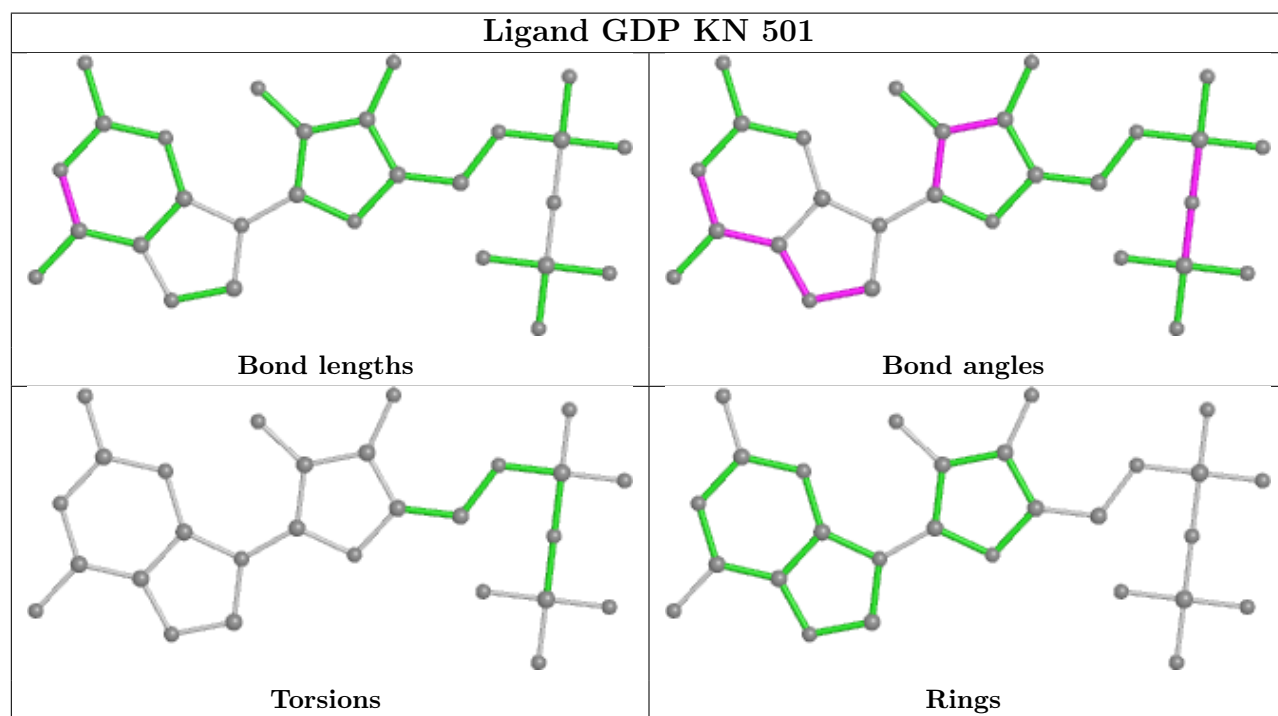
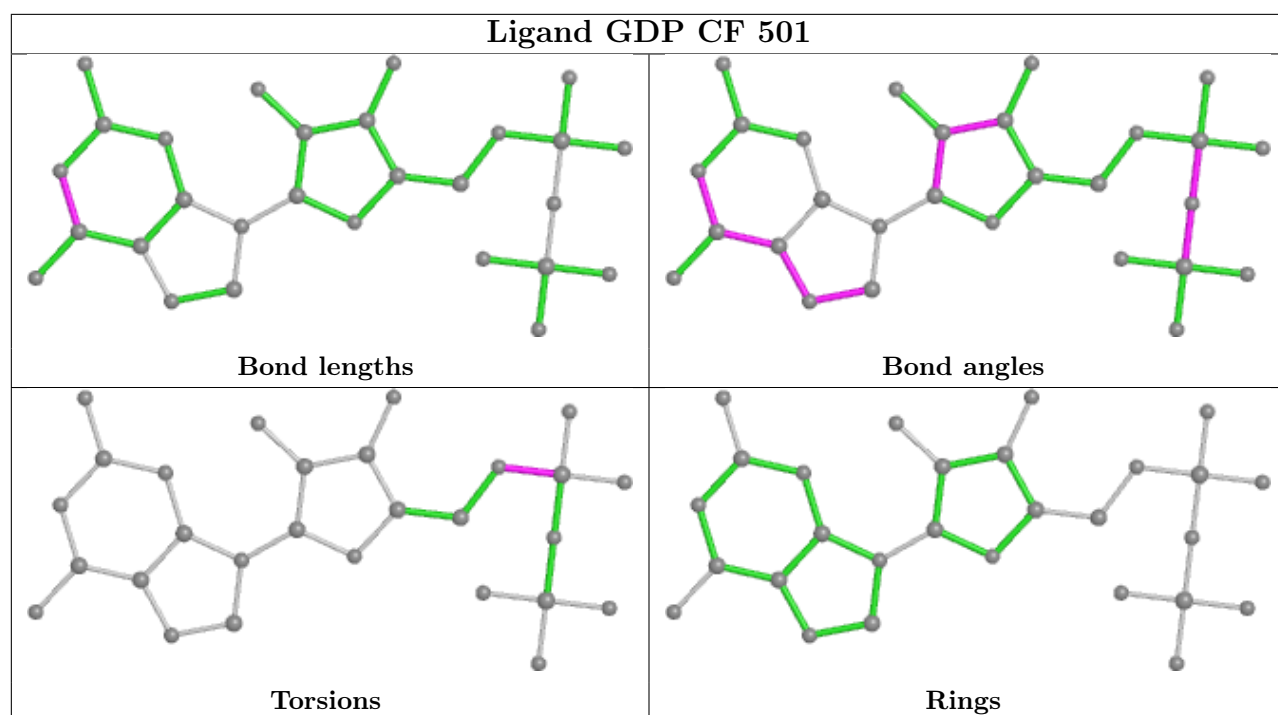
Rings

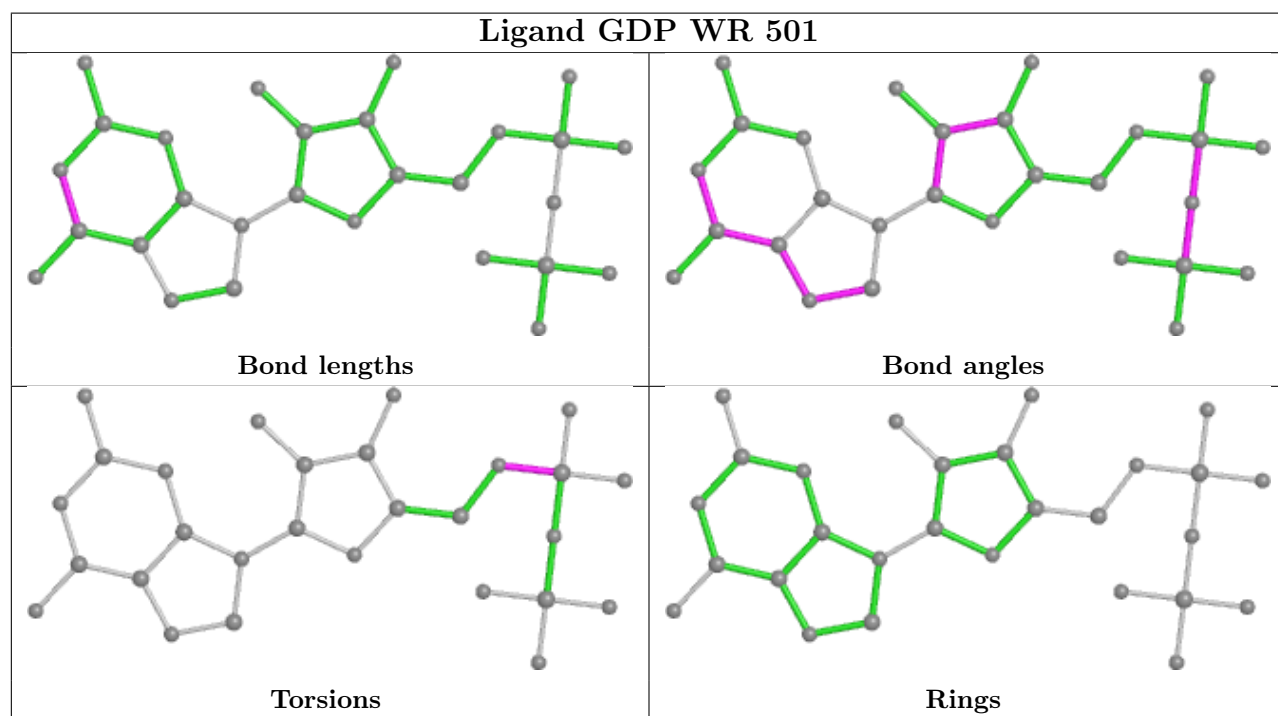
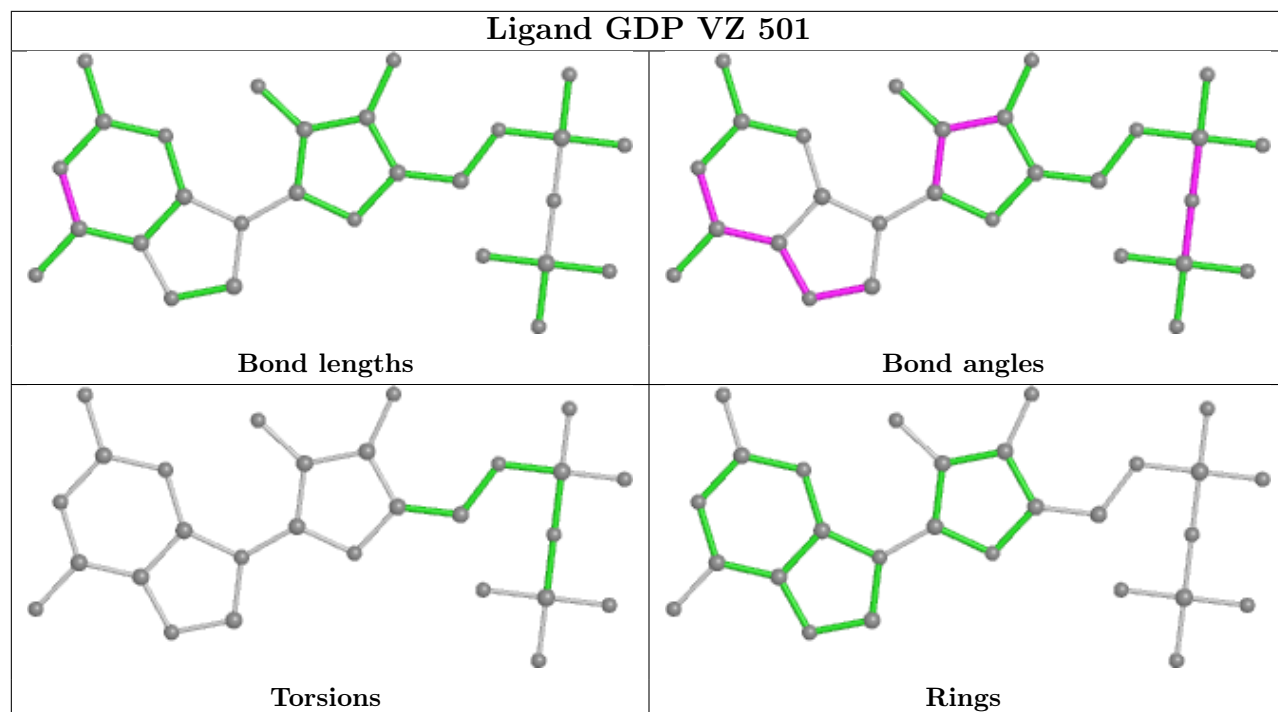
Ligand GTP JY 501



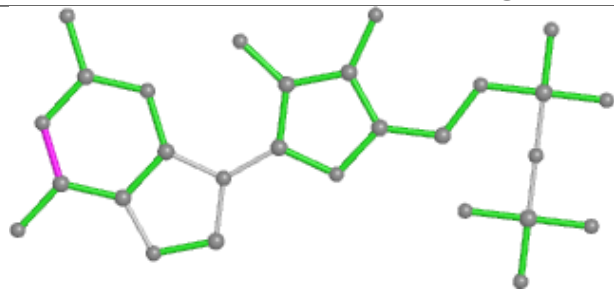
Ligand GDP JB 501



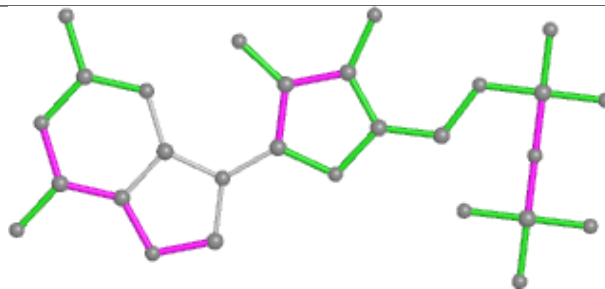




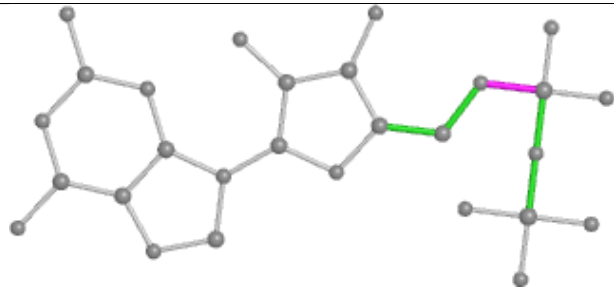
Ligand GDP OB 501



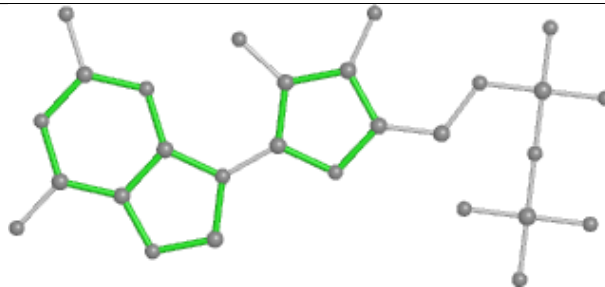
Bond lengths



Bond angles

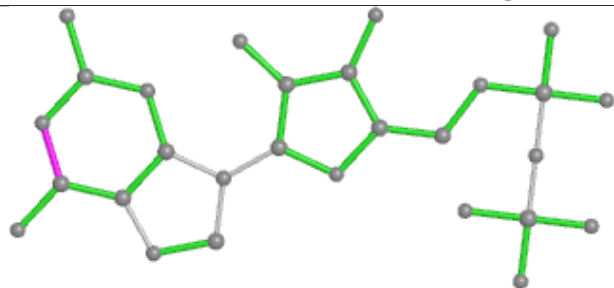


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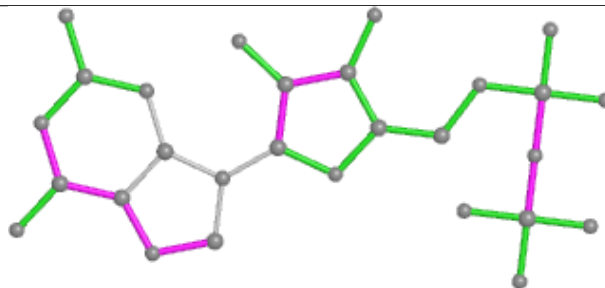


Rings

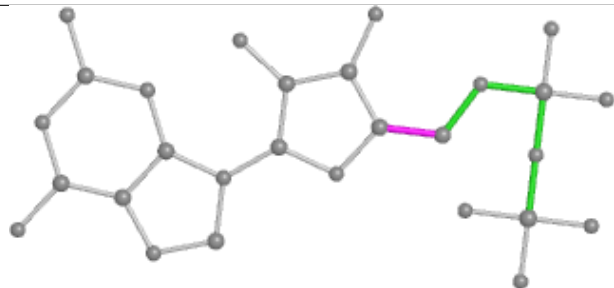
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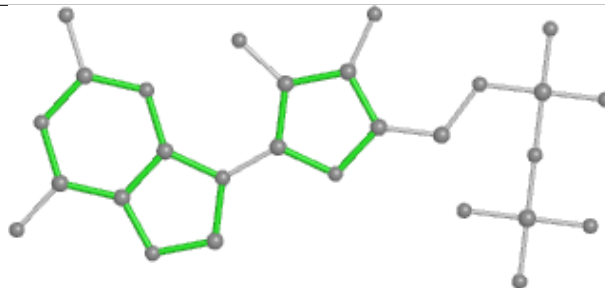
Bond lengths



Bond angles

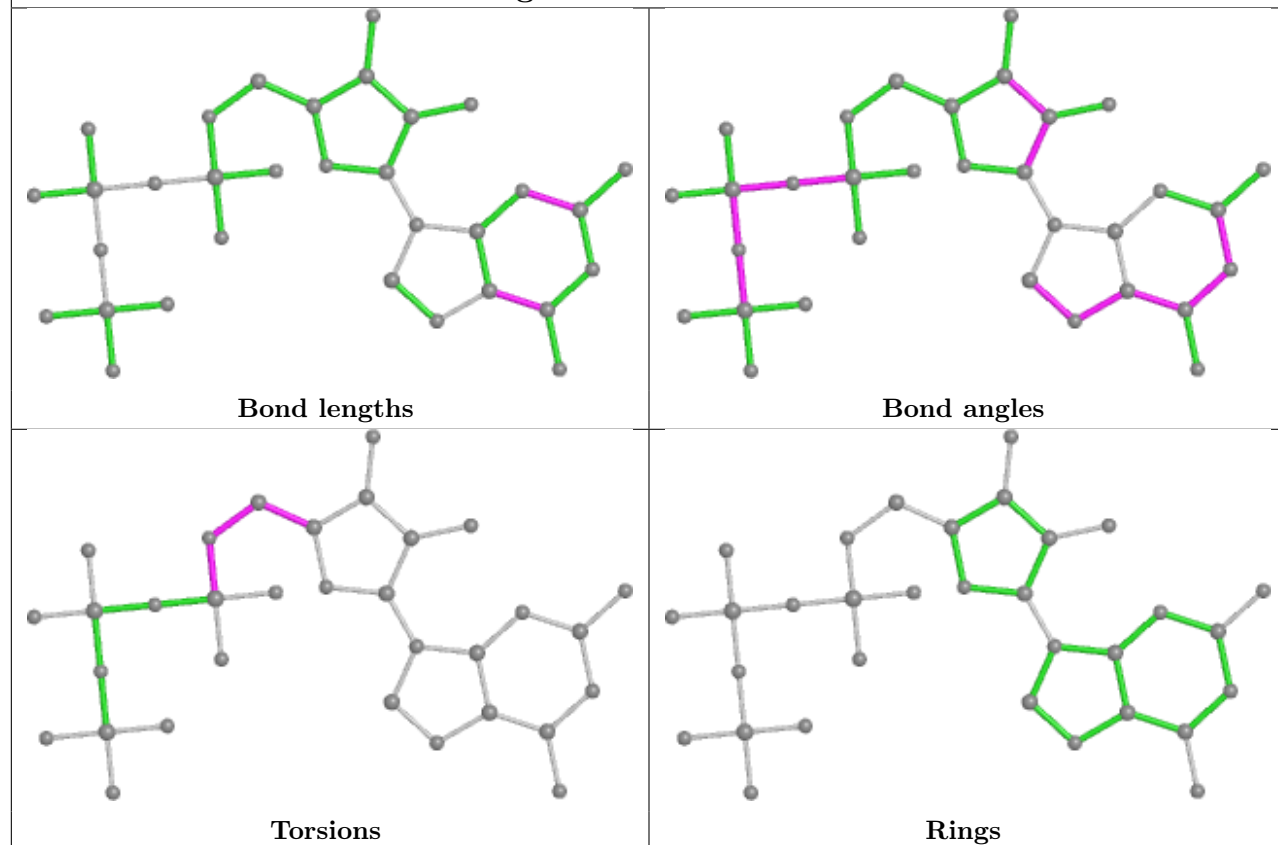


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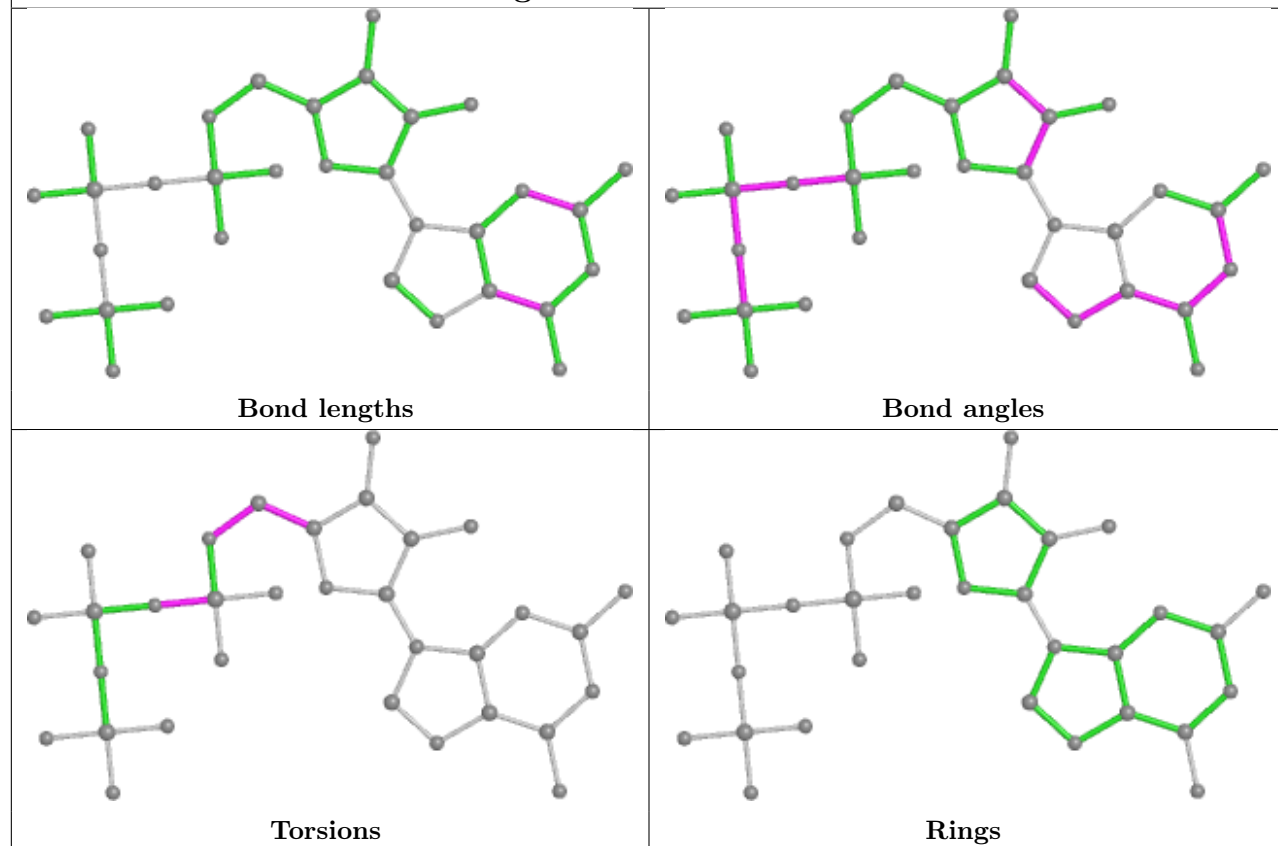


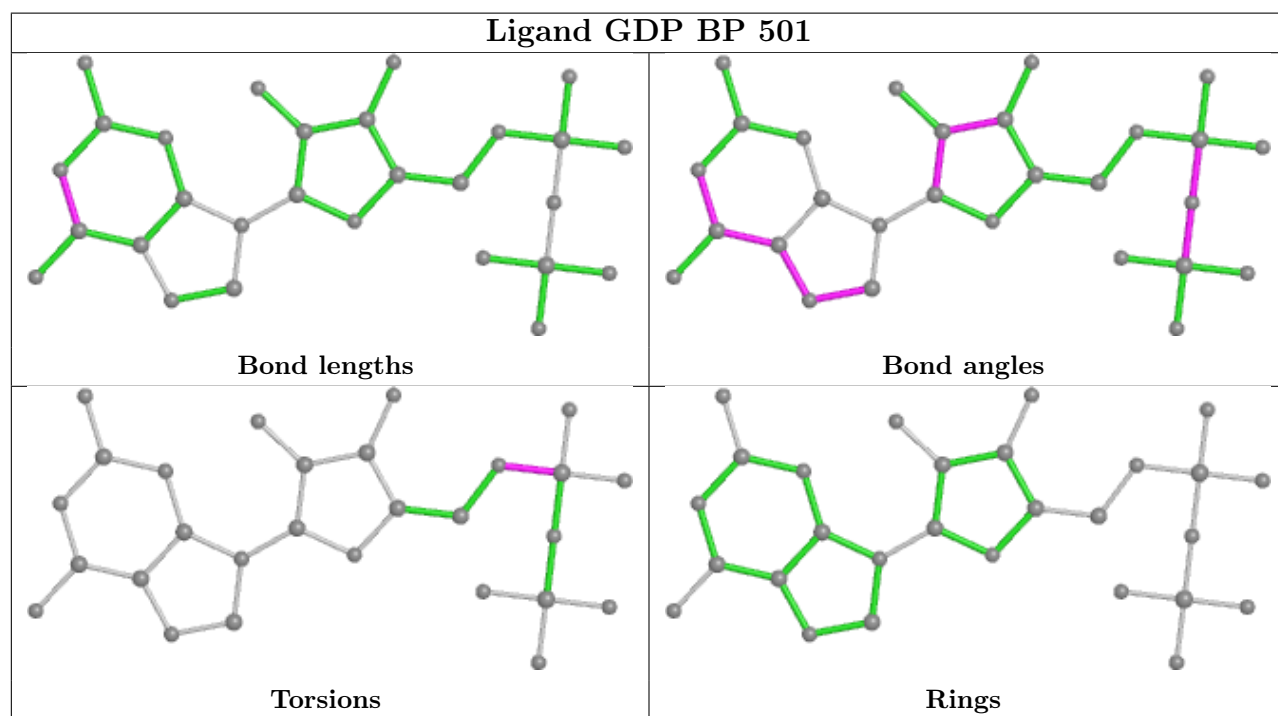
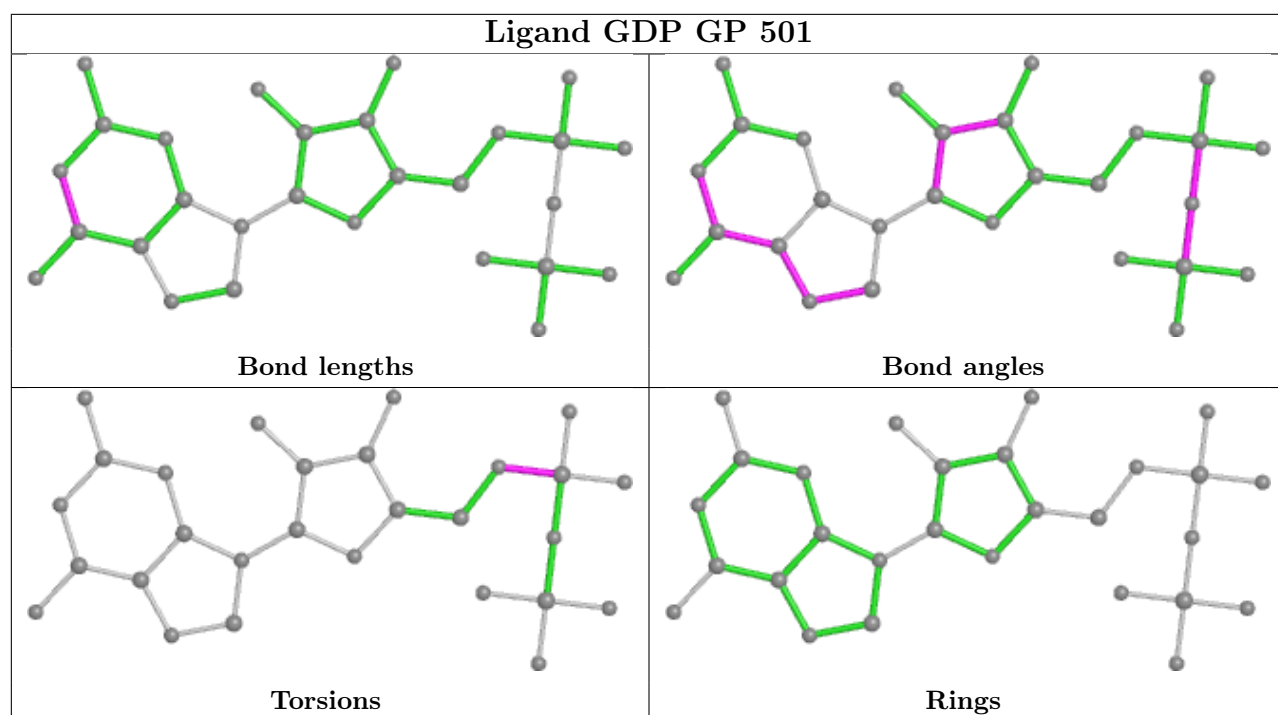
Rings

Ligand GTP OU 501

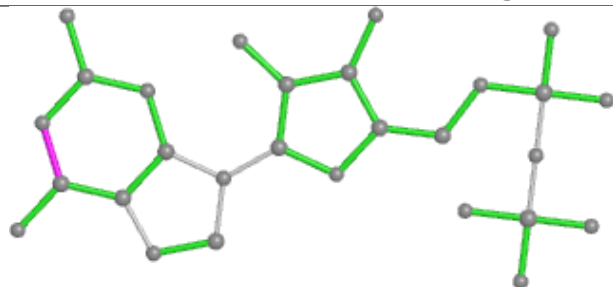


Ligand GTP BM 501

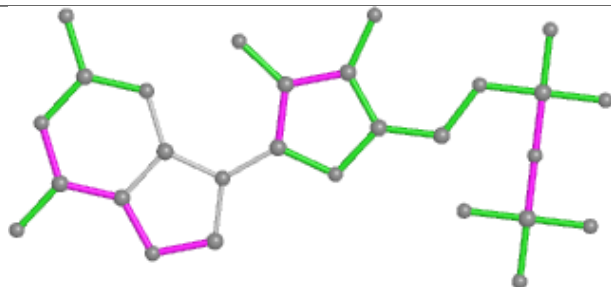




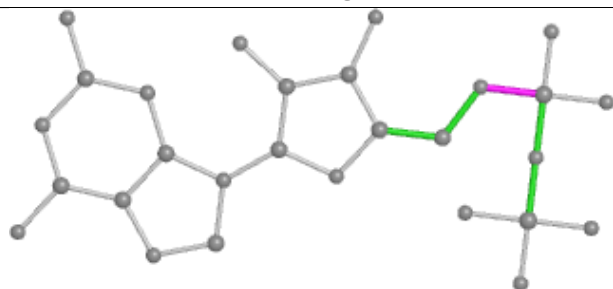
Ligand GDP TX 501



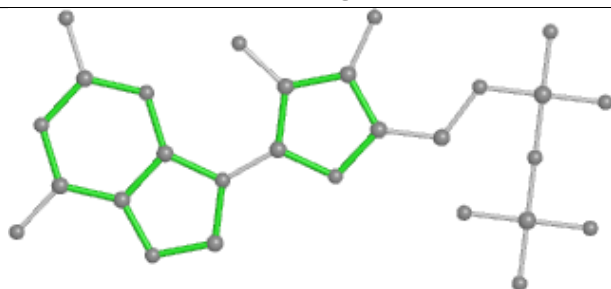
Bond lengths



Bond angles

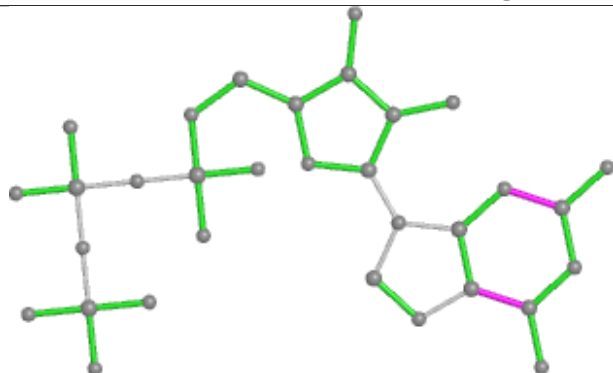


Torsions

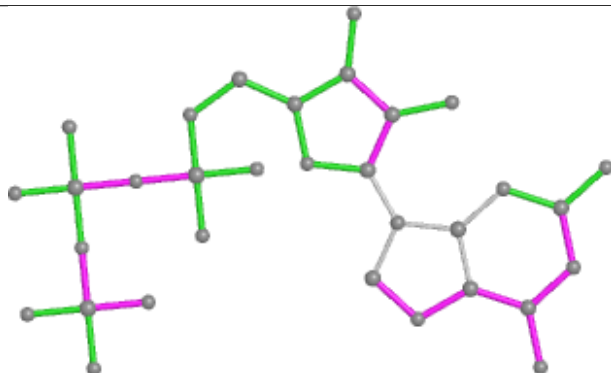


Rings

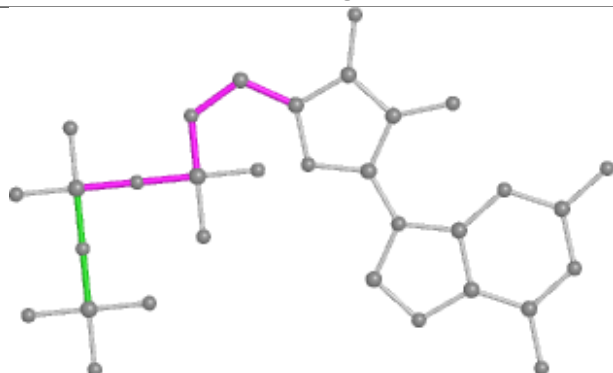
Ligand GTP ND 502



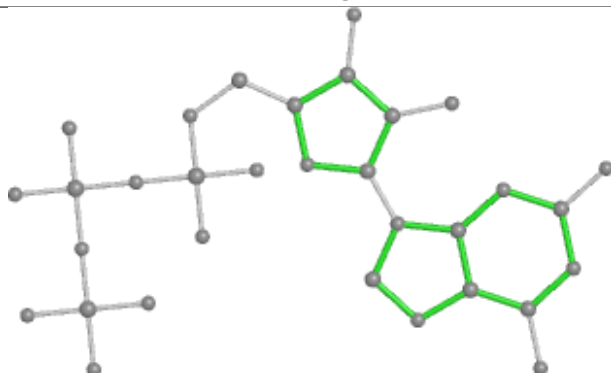
Bond lengths



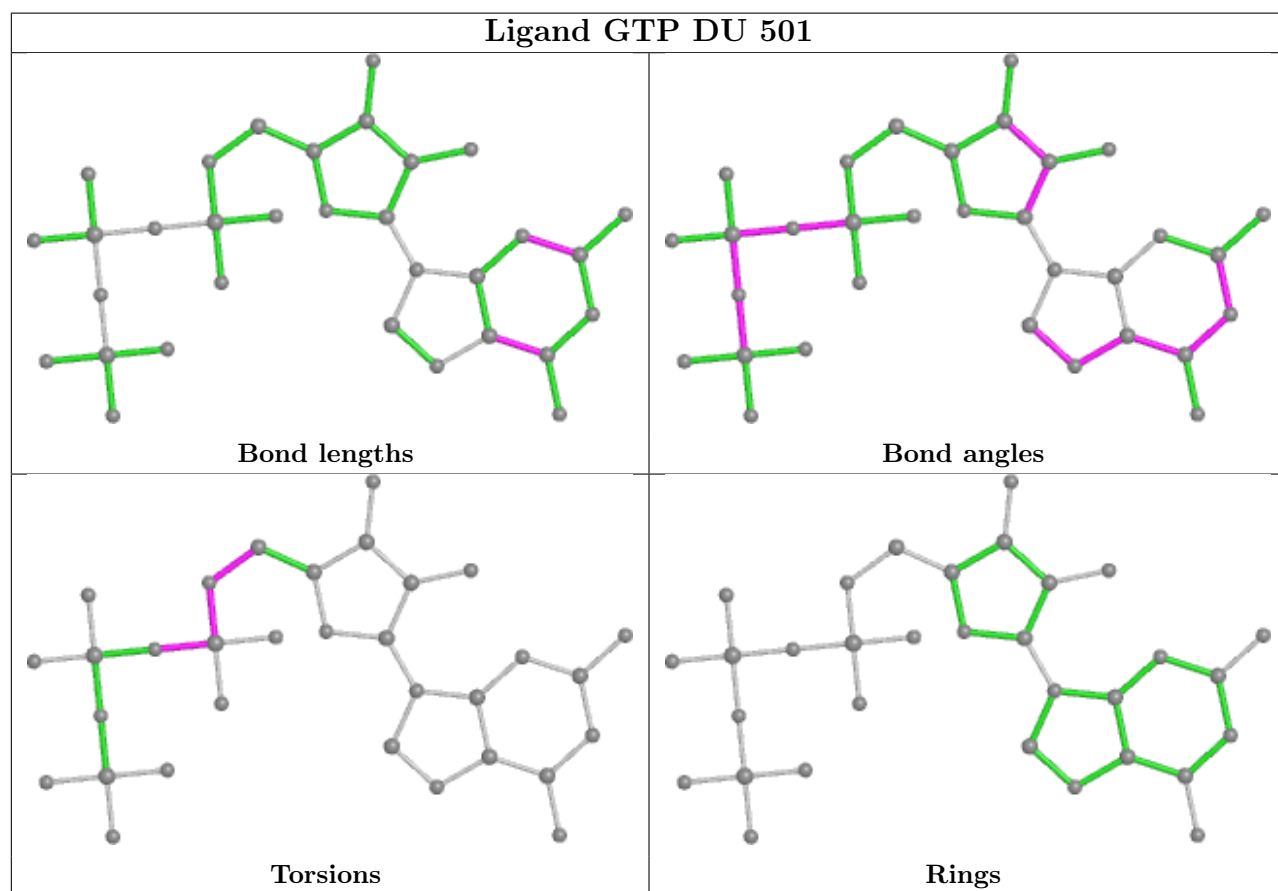
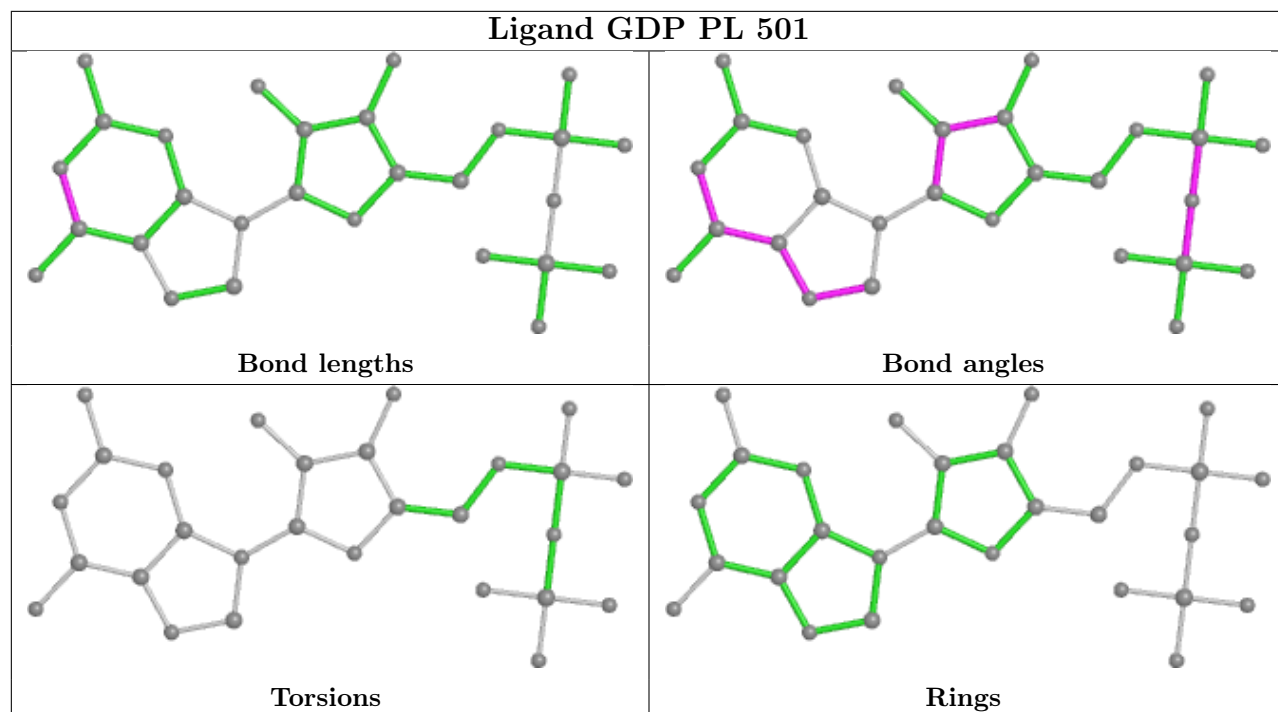
Bond angles



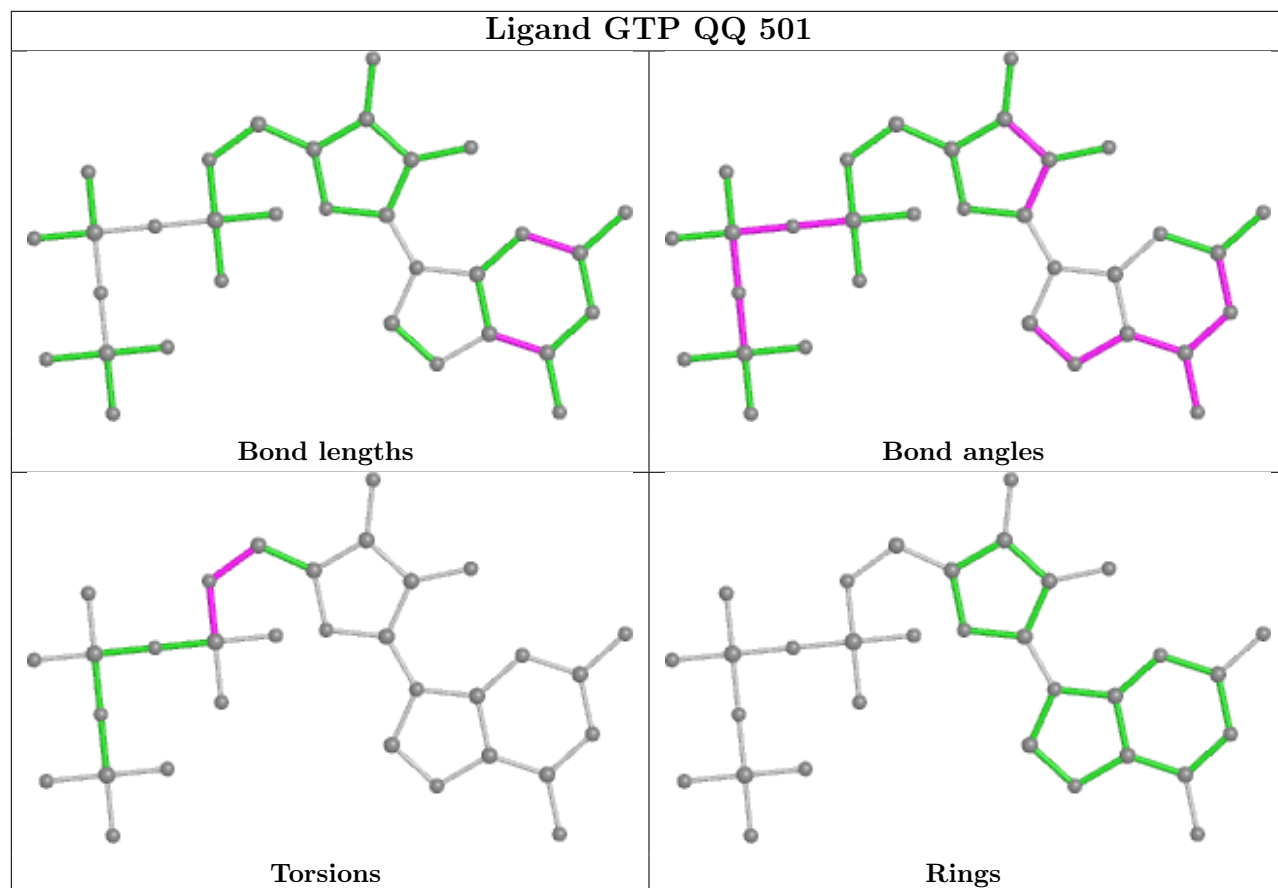
Torsions



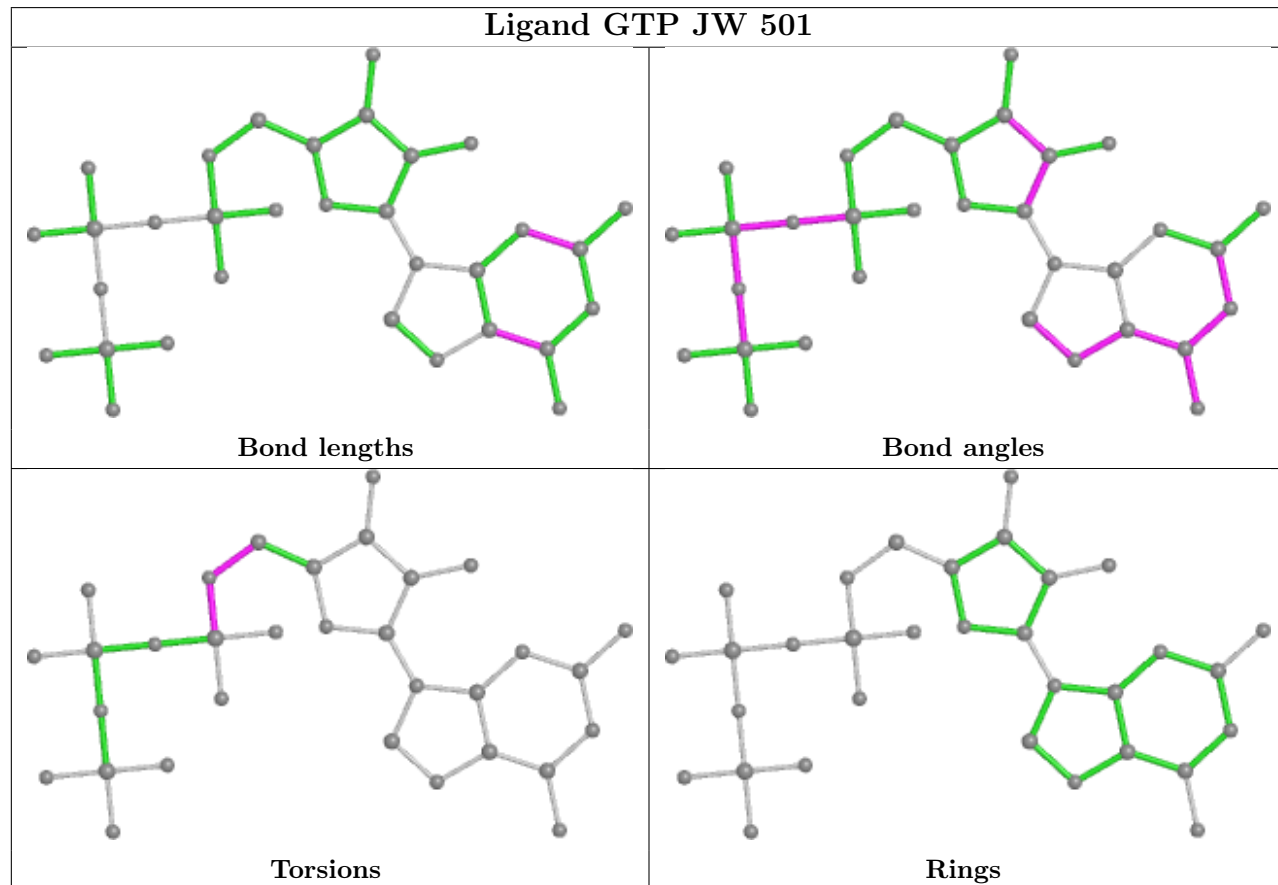
Rings

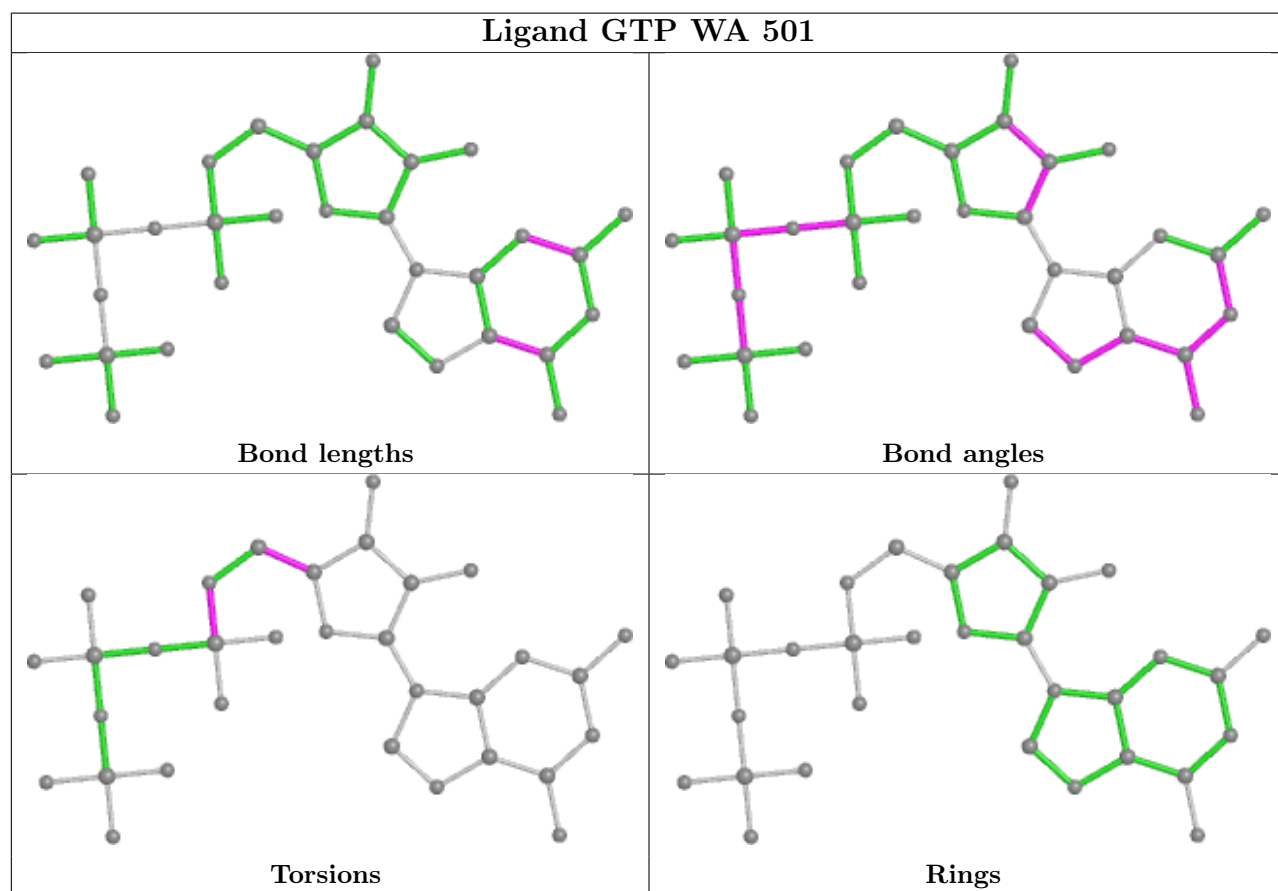
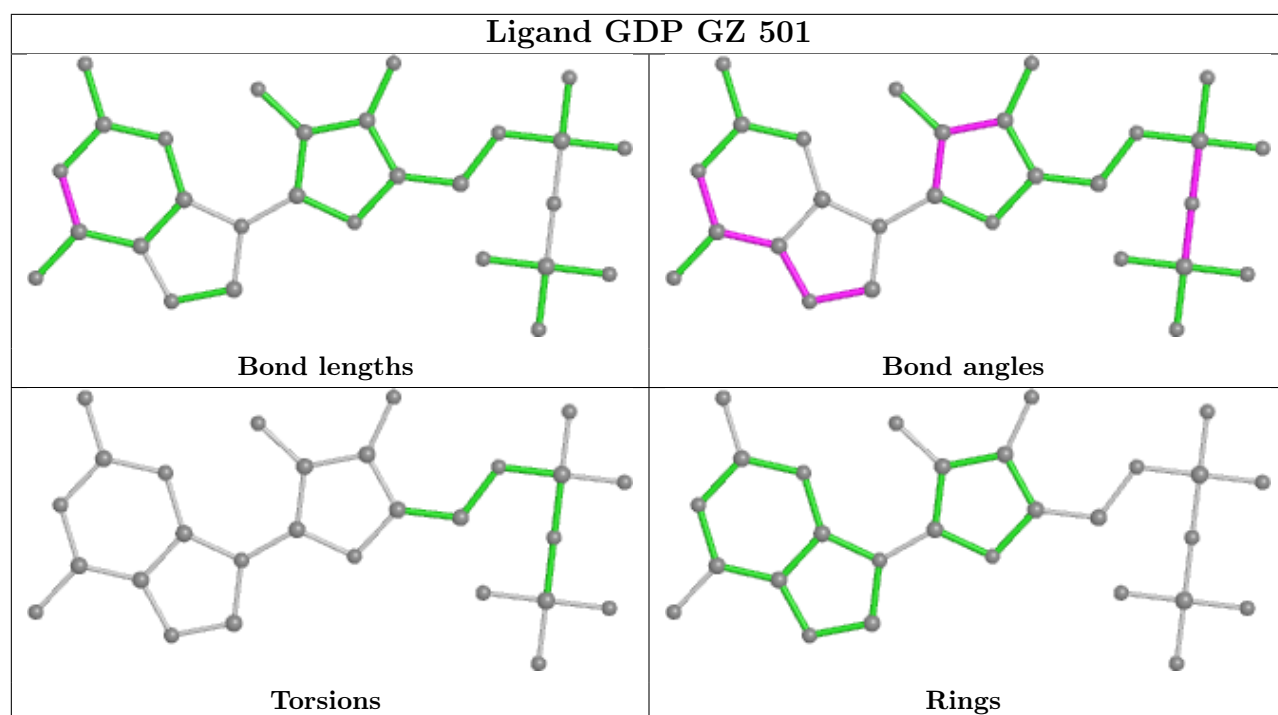


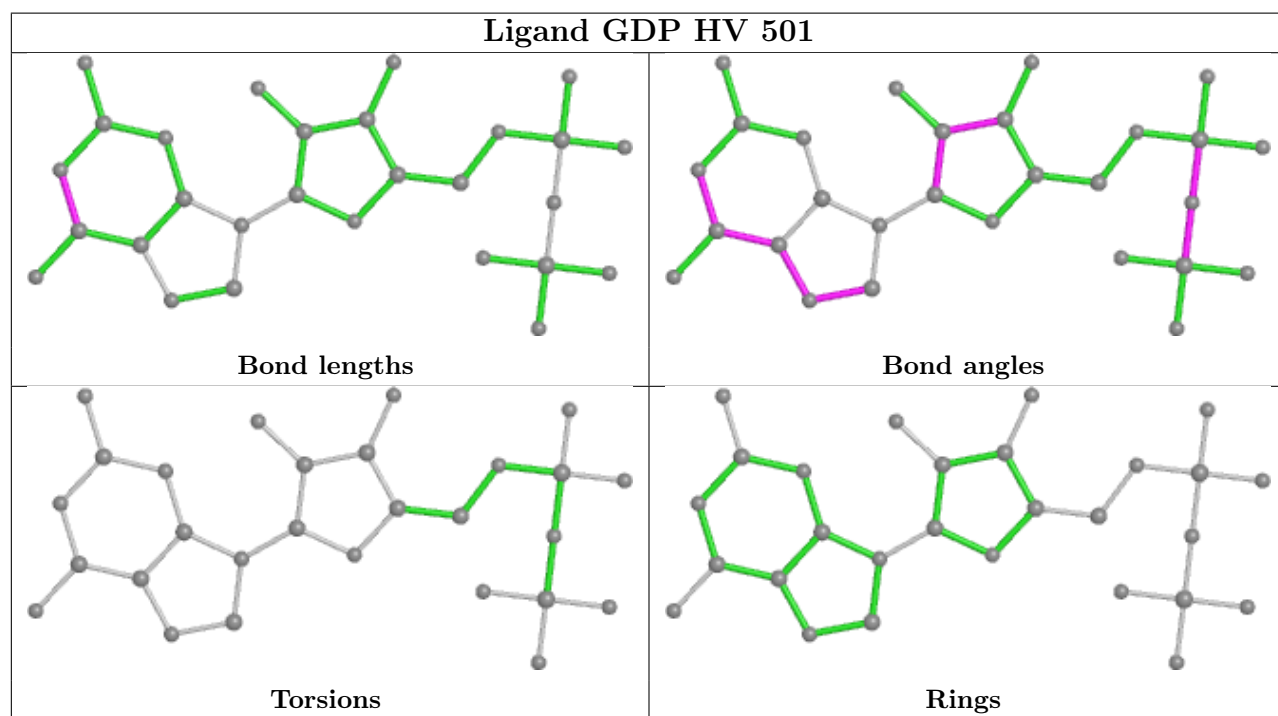
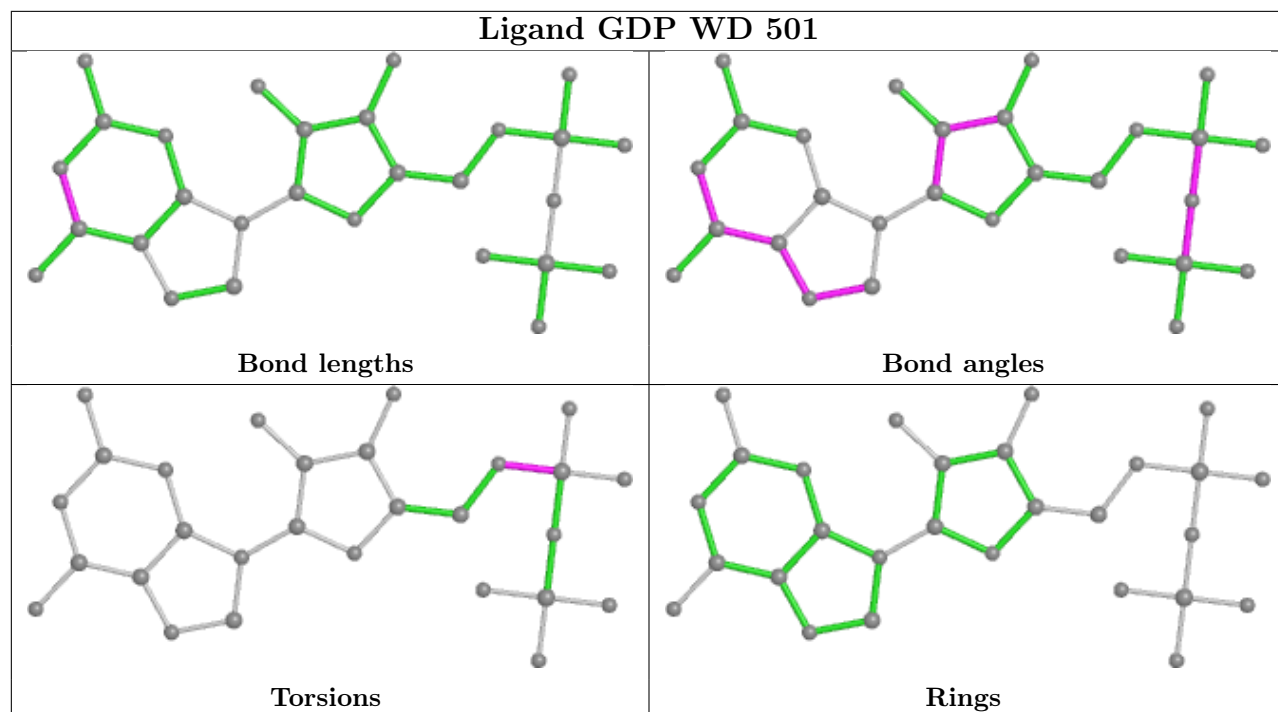
Ligand GTP QQ 501

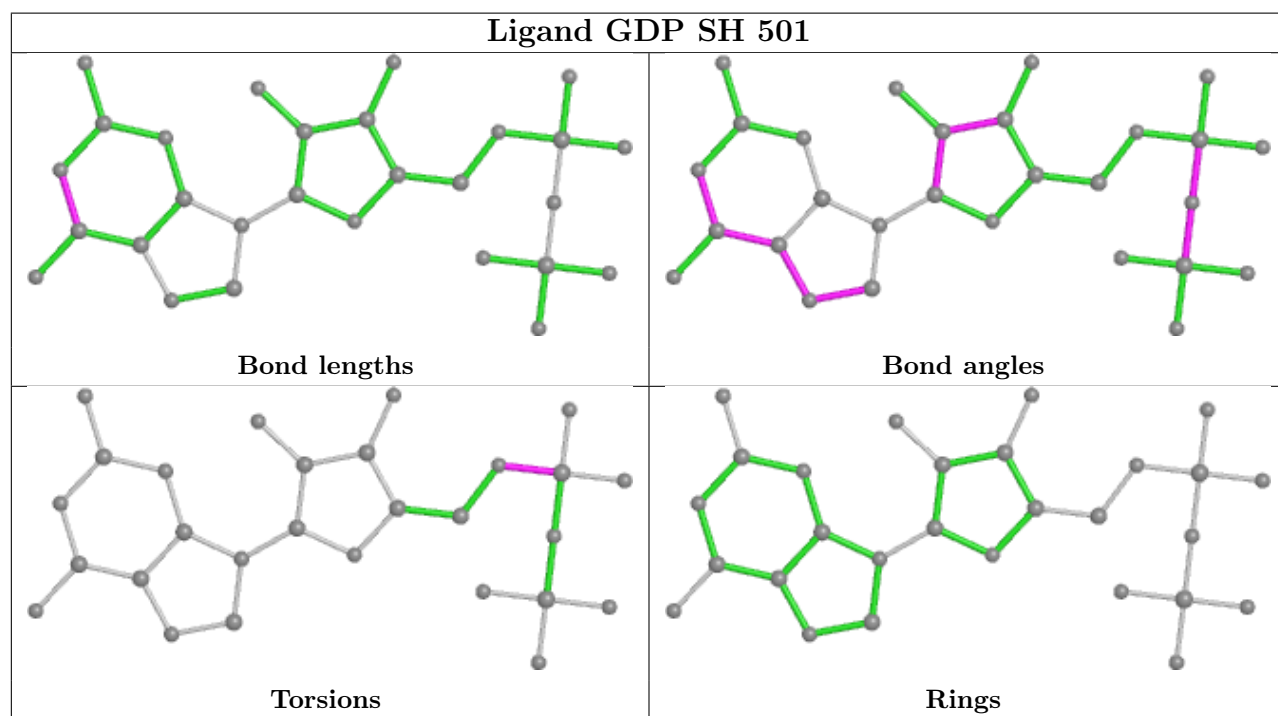
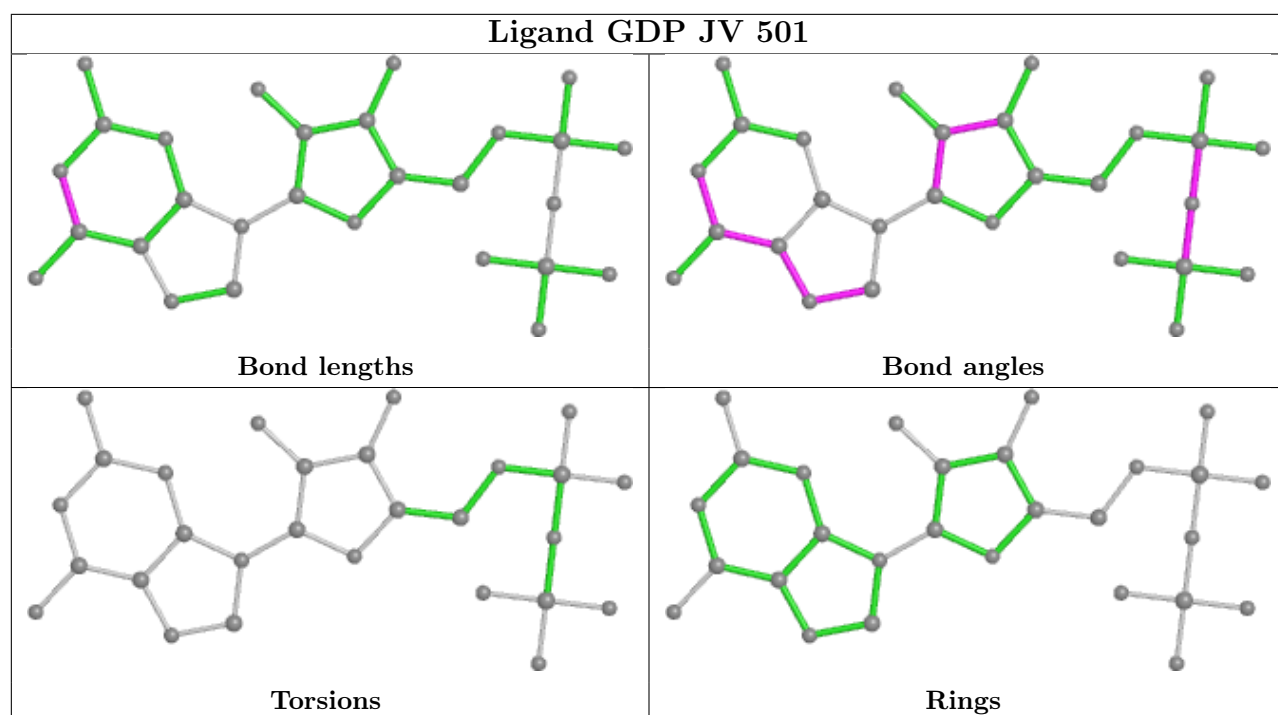


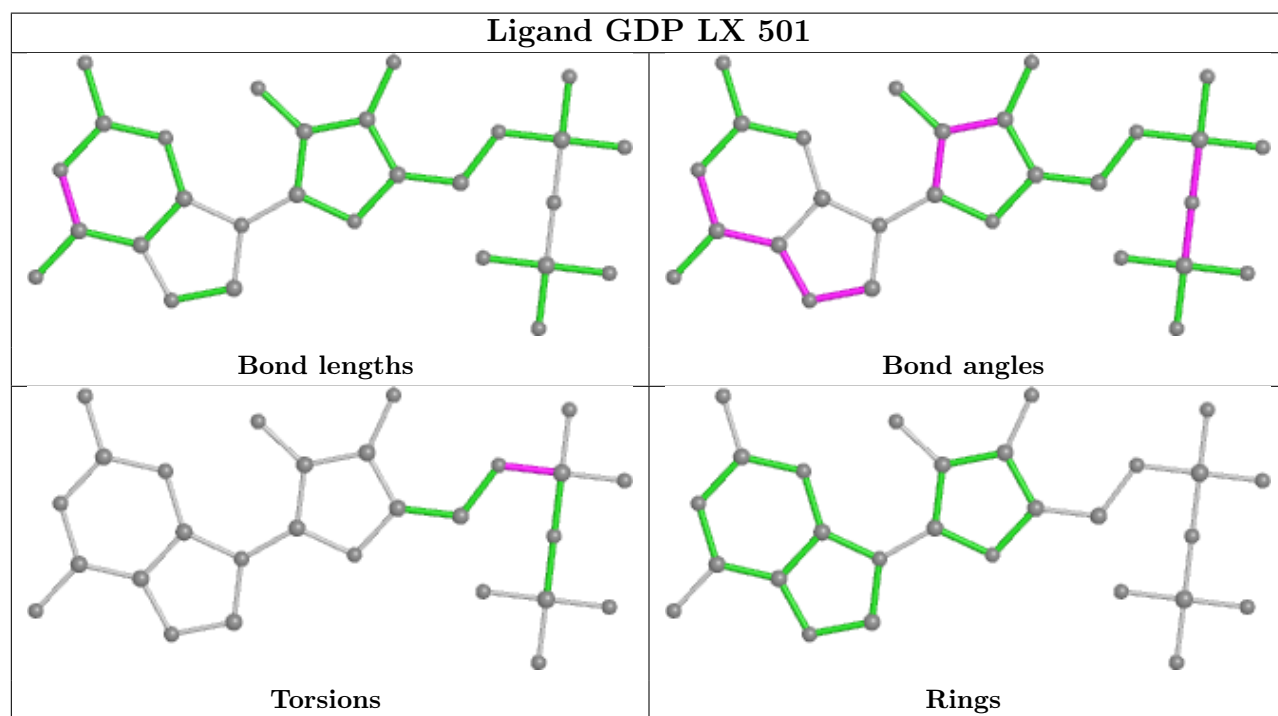
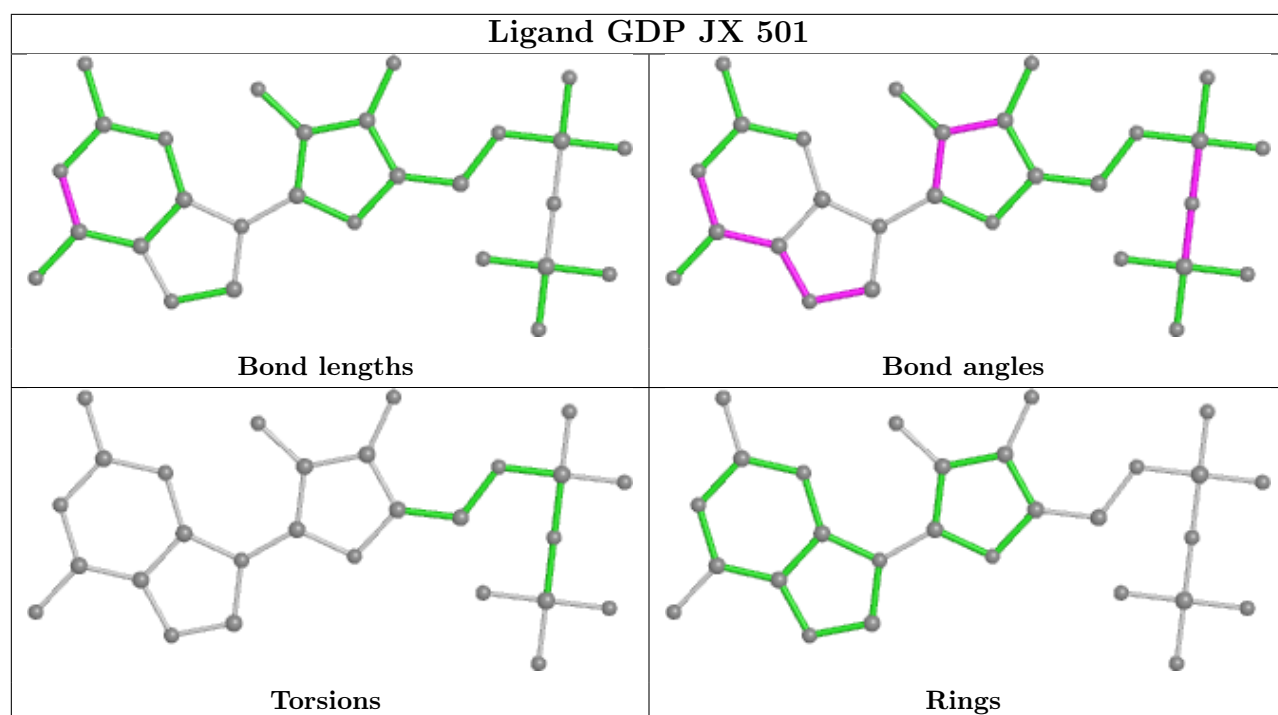
Ligand GTP JW 501

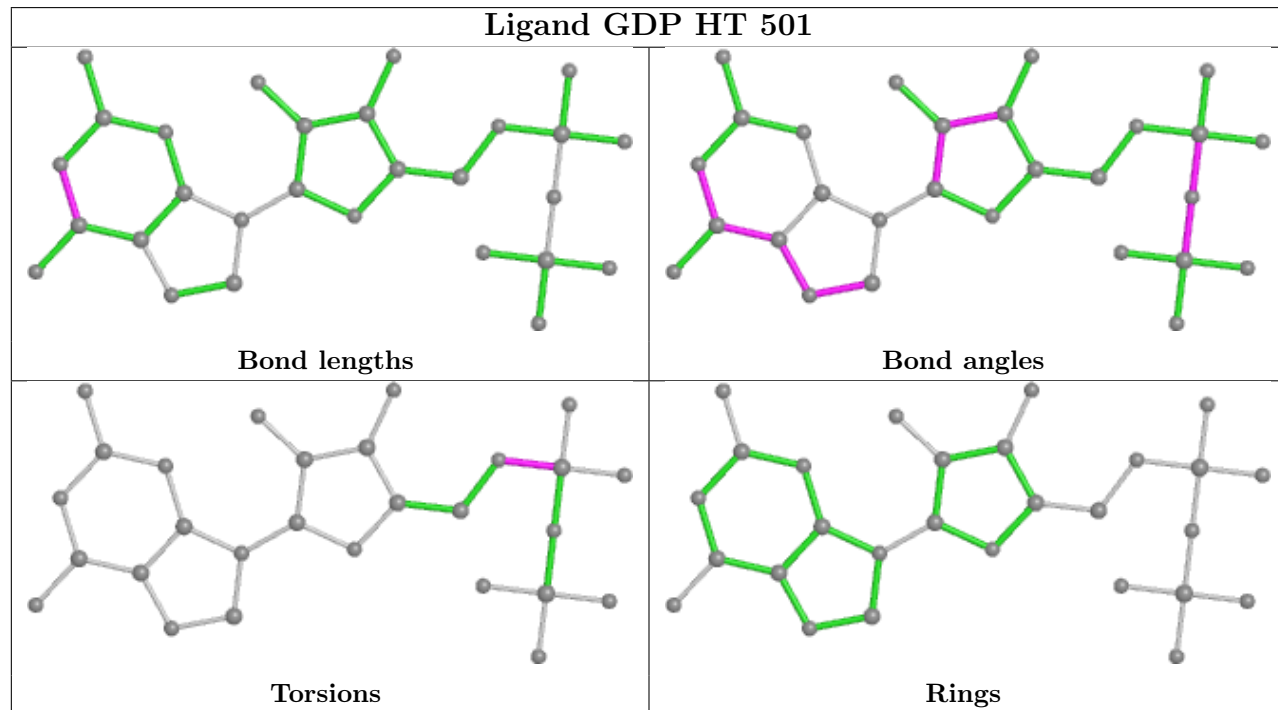
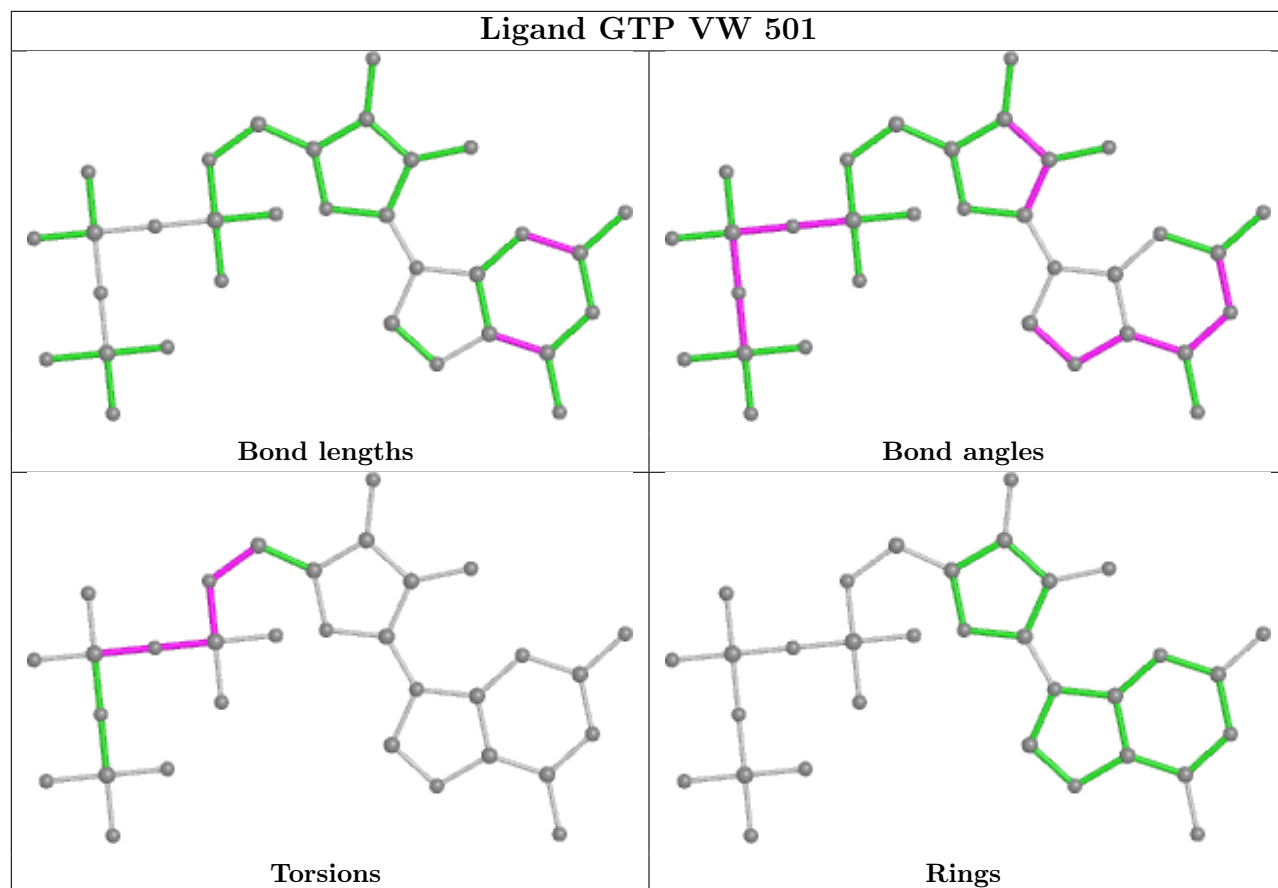


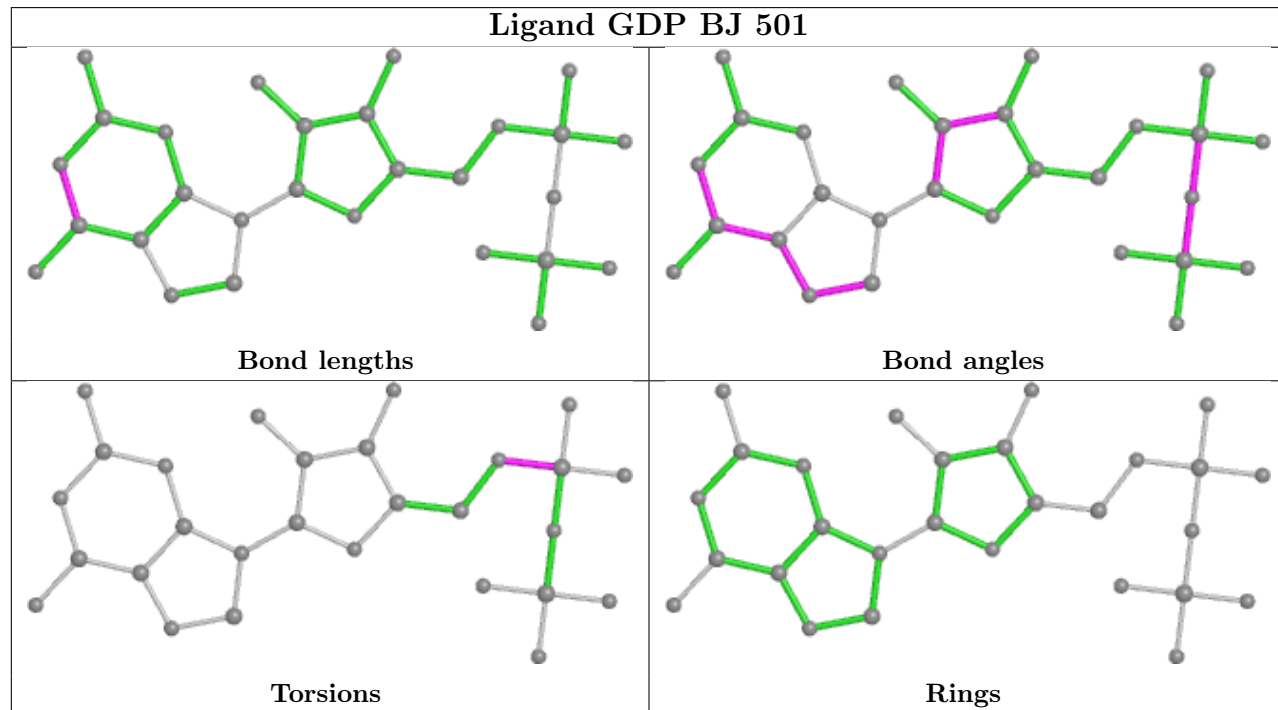
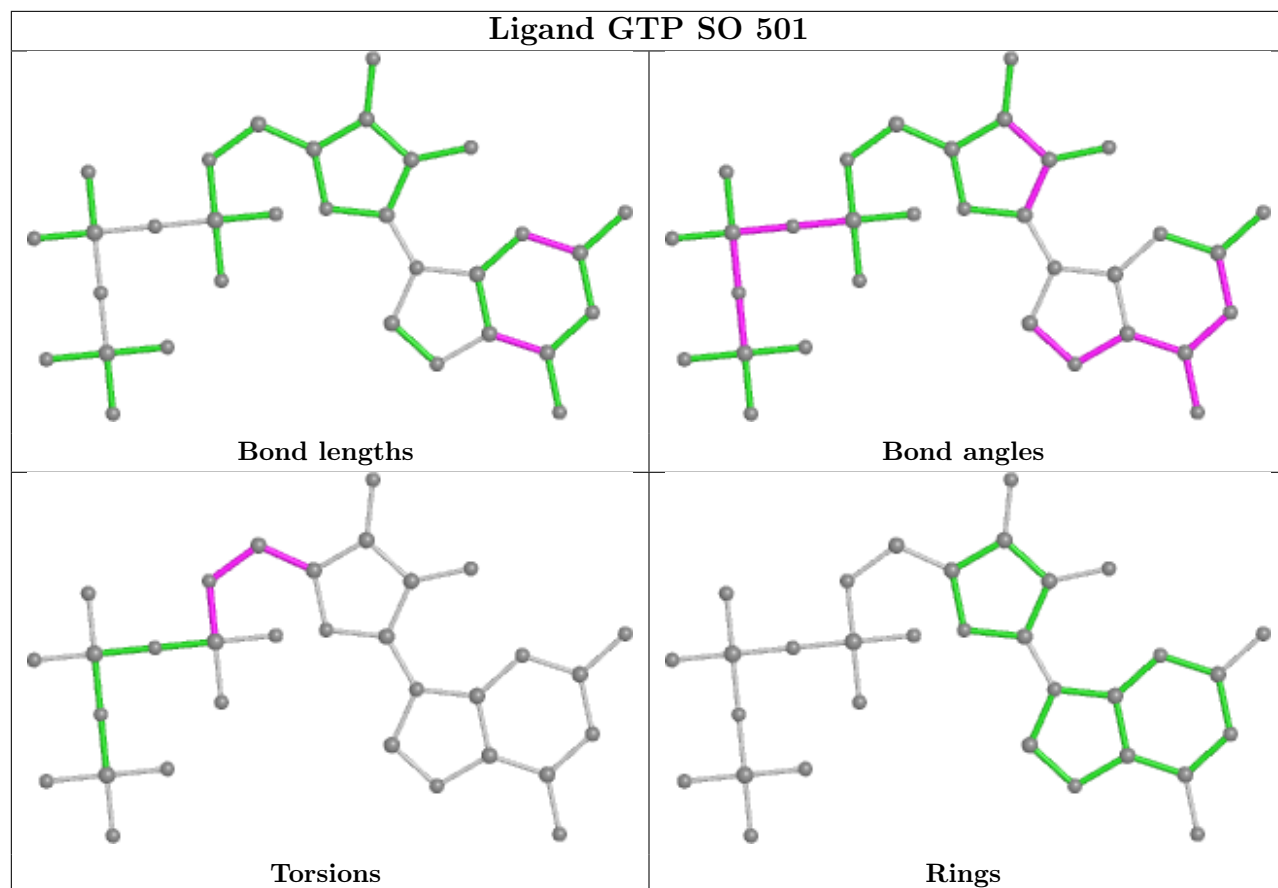




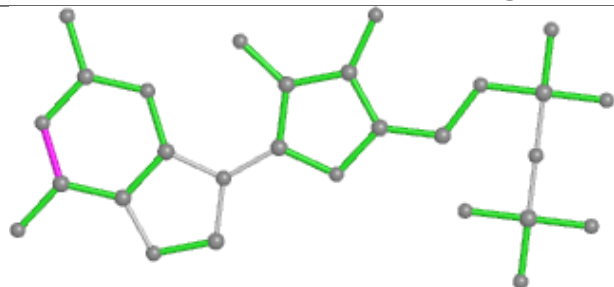




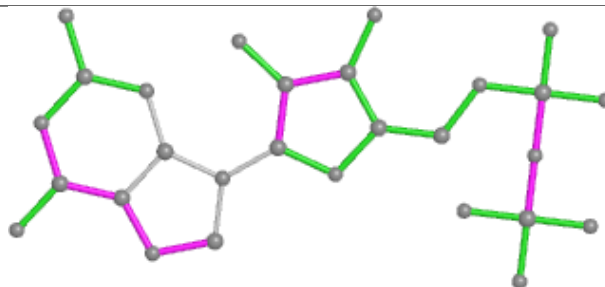




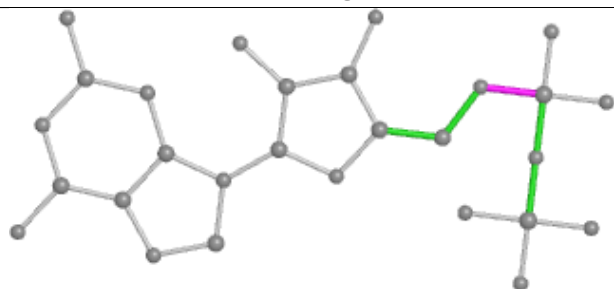
Ligand GDP SR 501



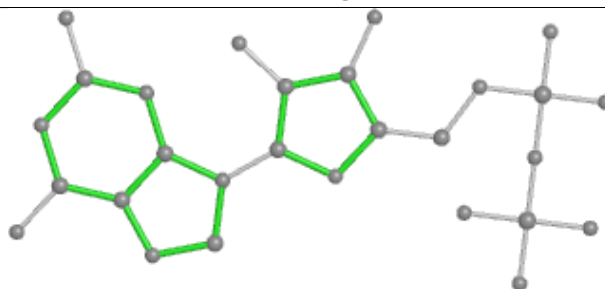
Bond lengths



Bond angles

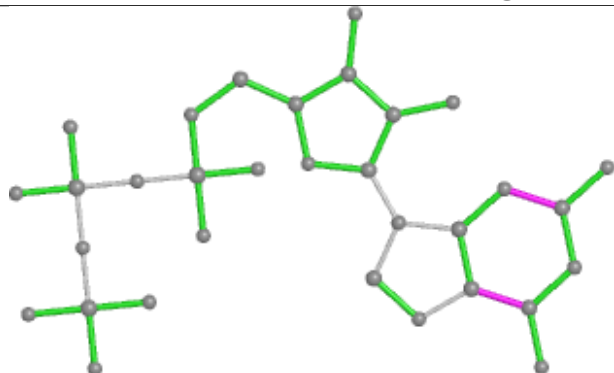


Torsions

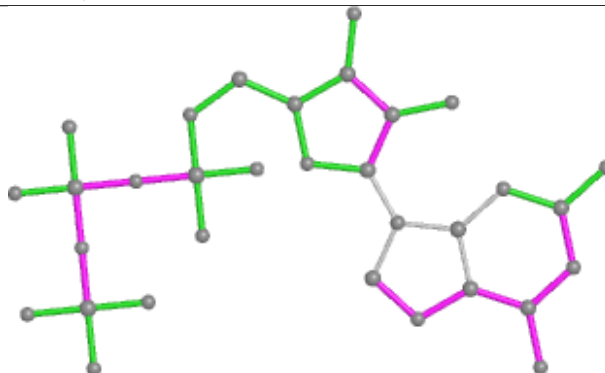


Rings

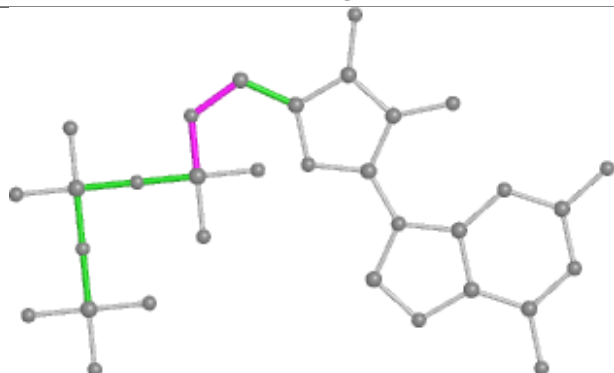
Ligand GTP NQ 501



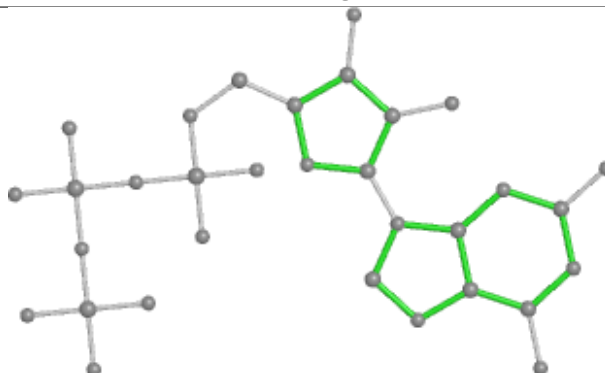
Bond lengths



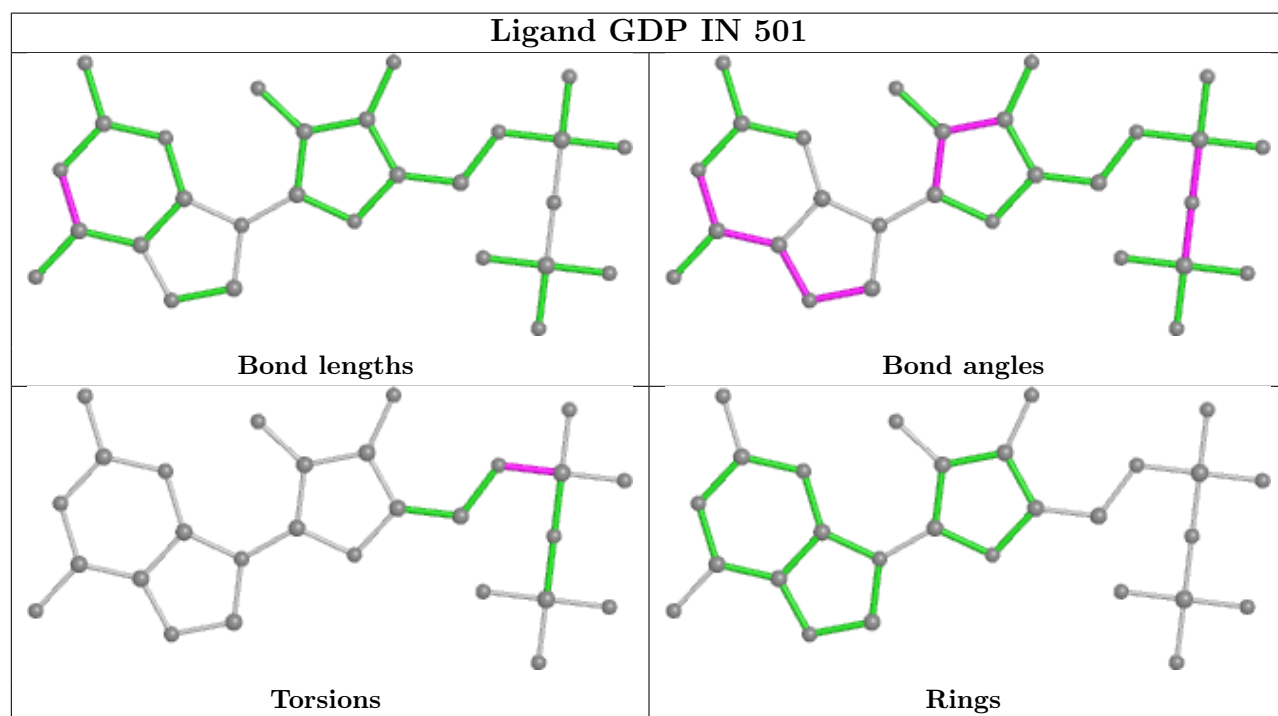
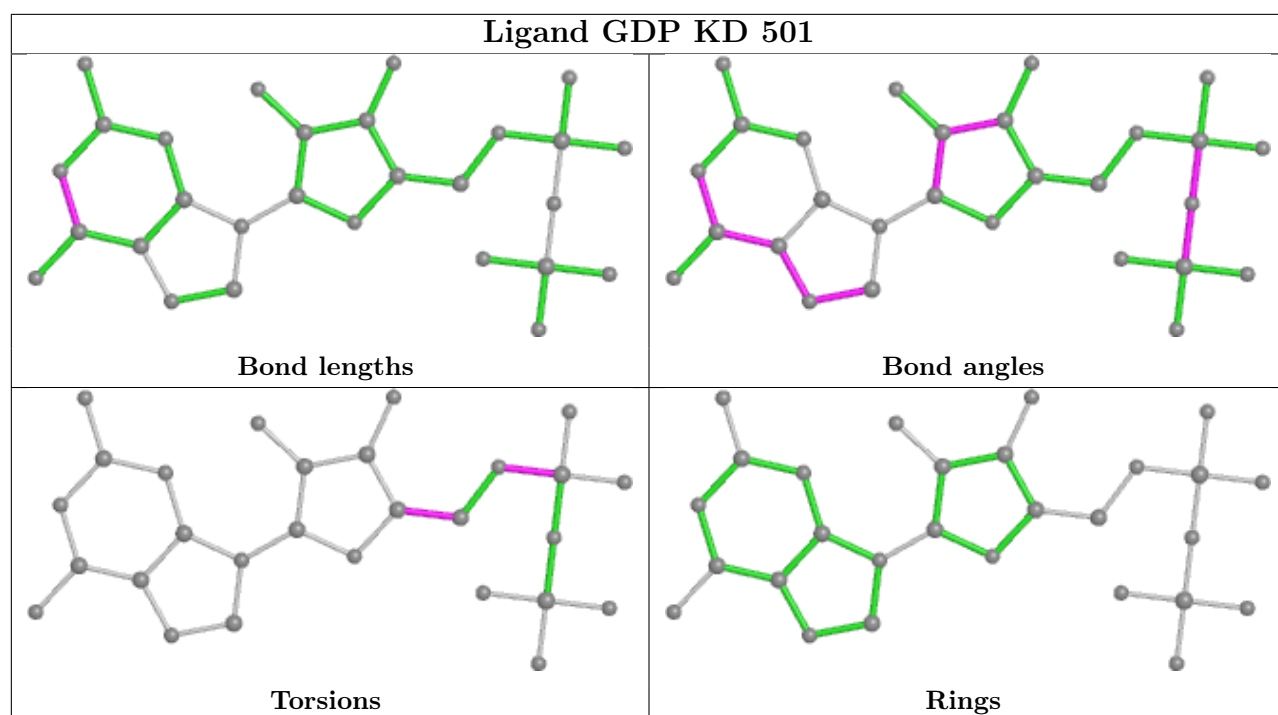
Bond angles

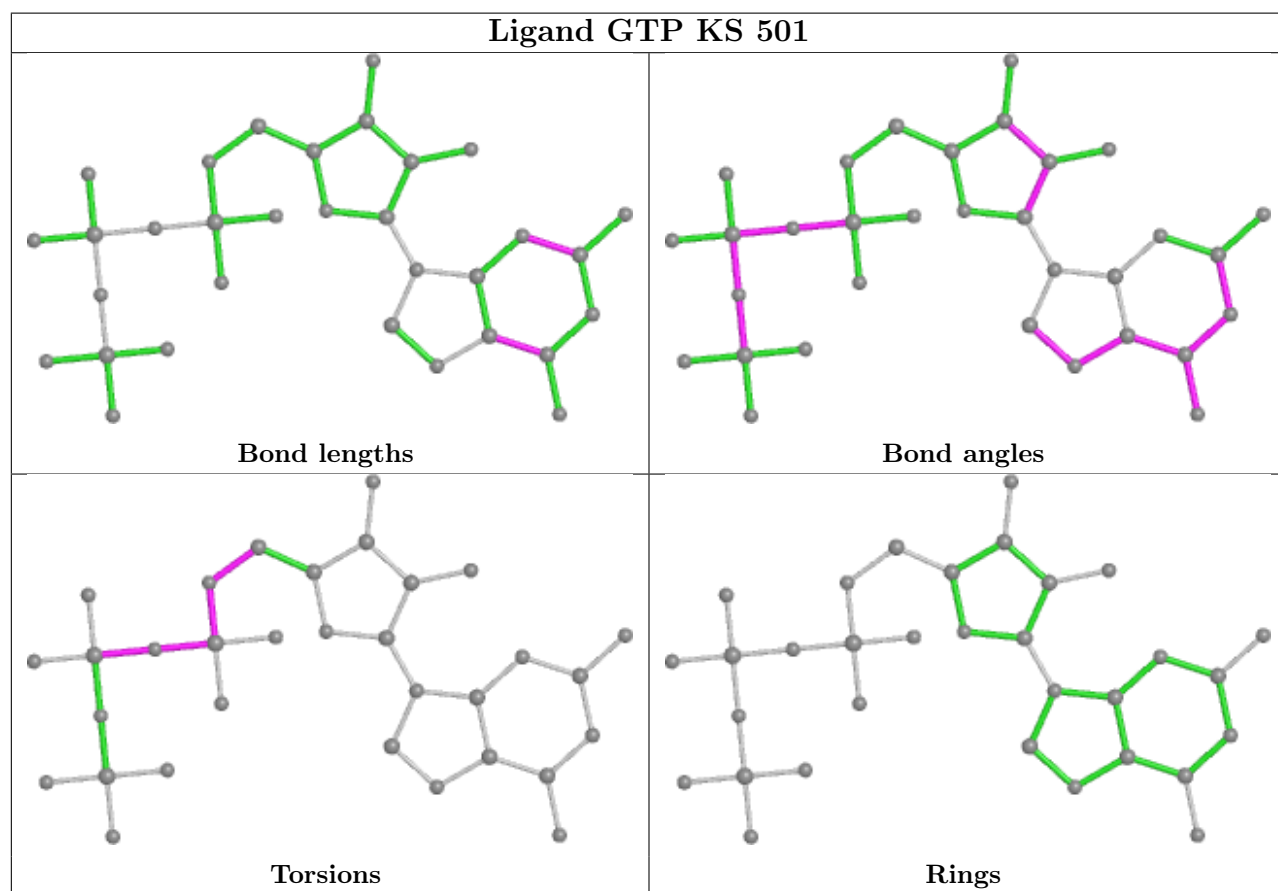
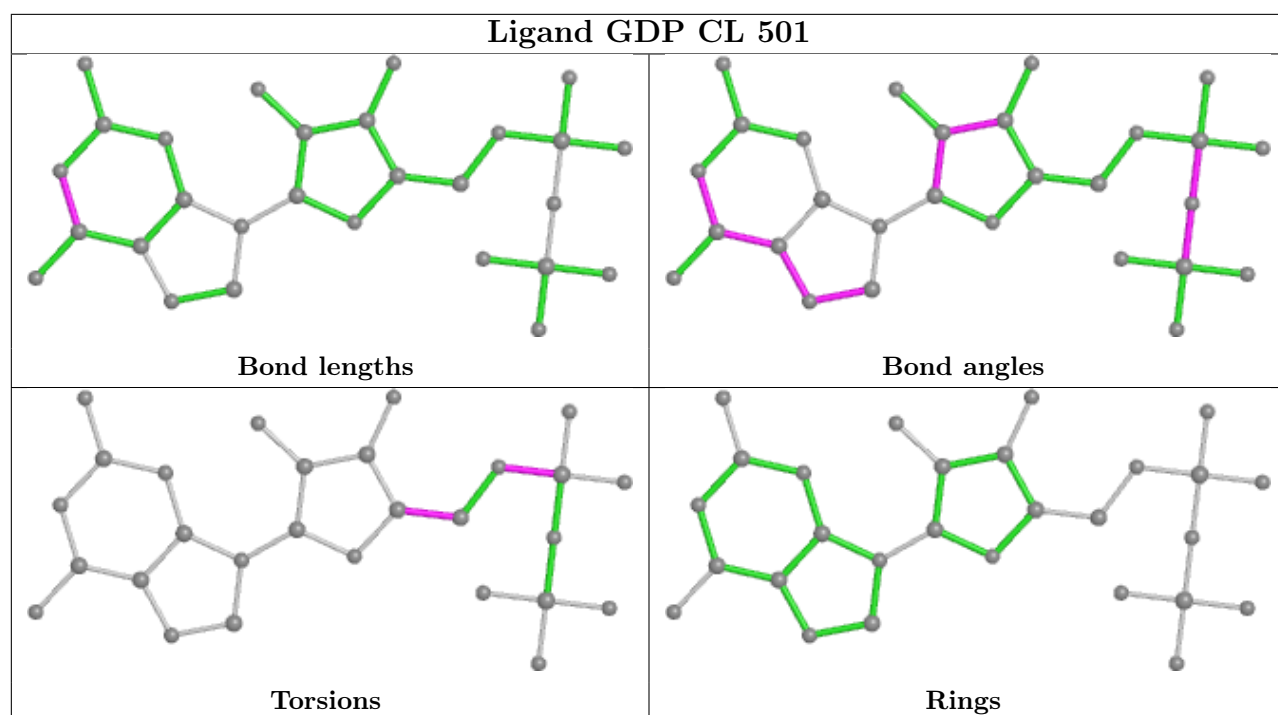


Torsions

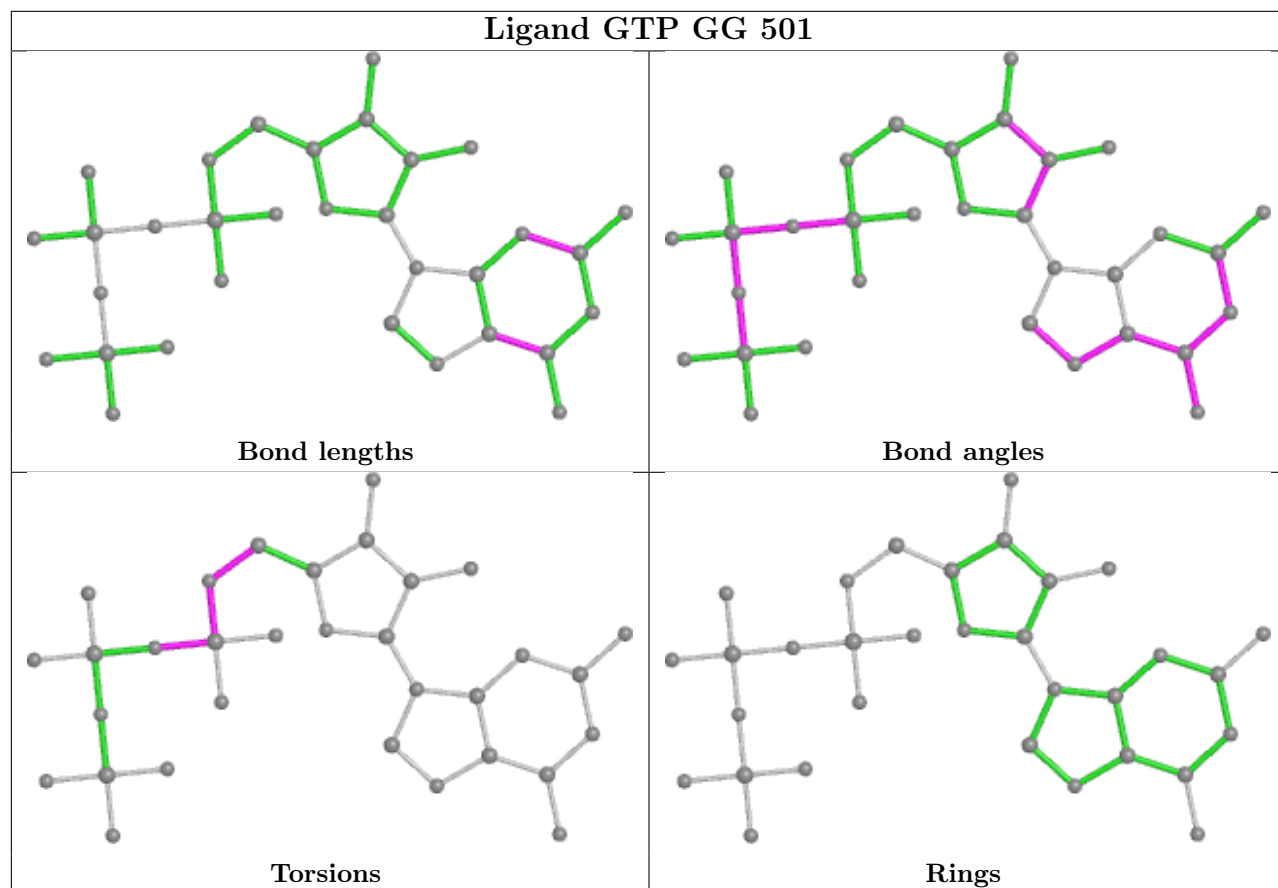


Rings

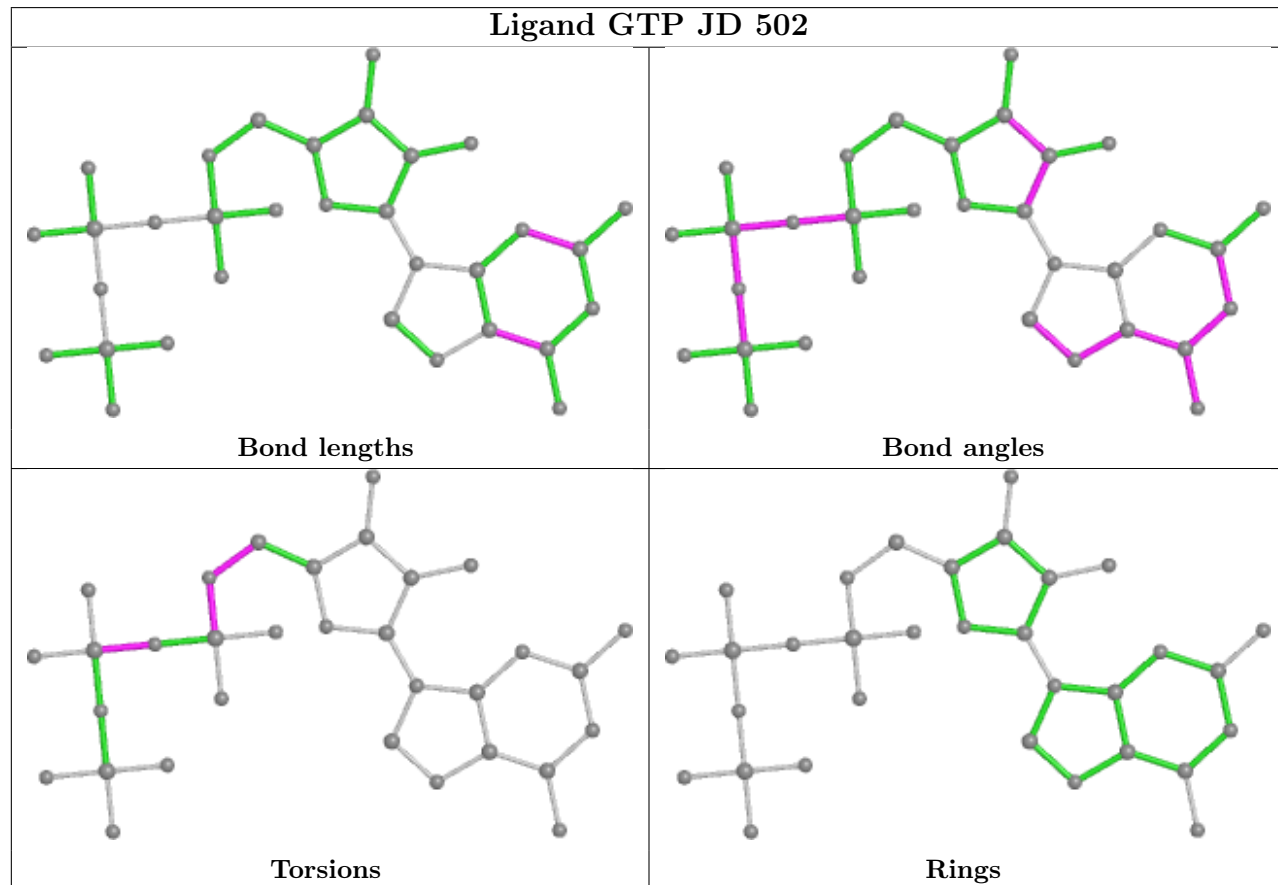


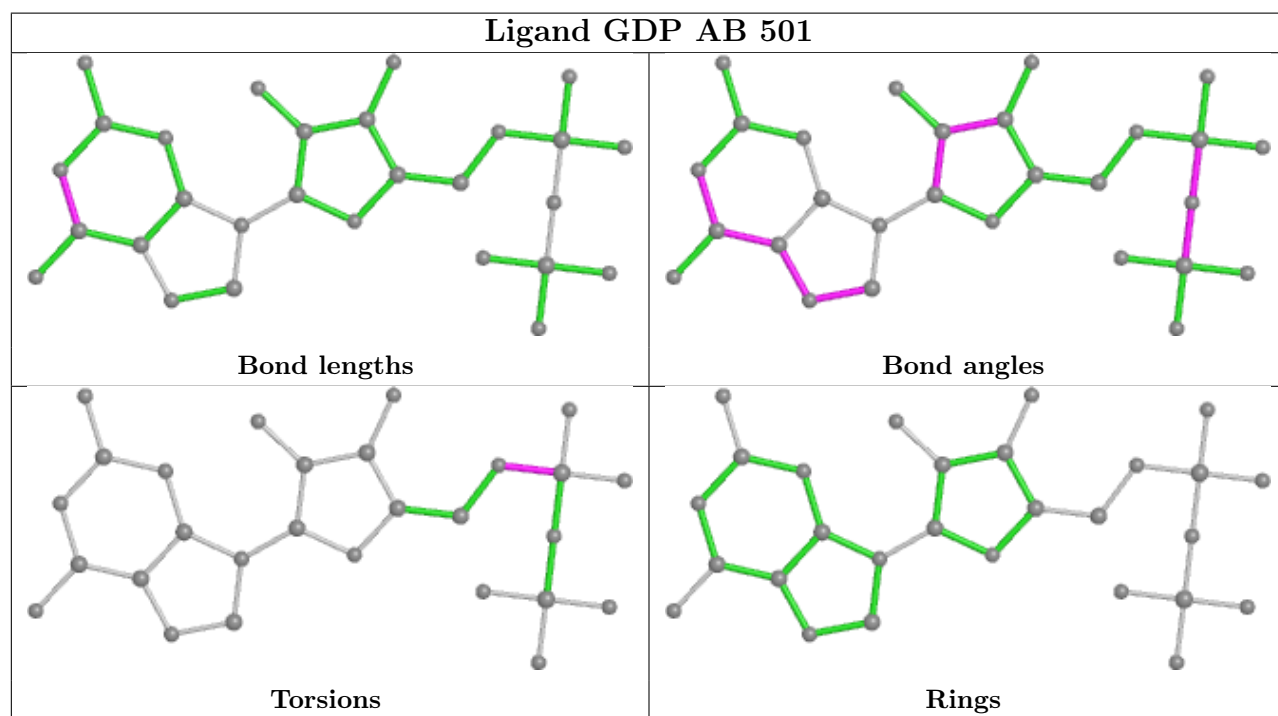
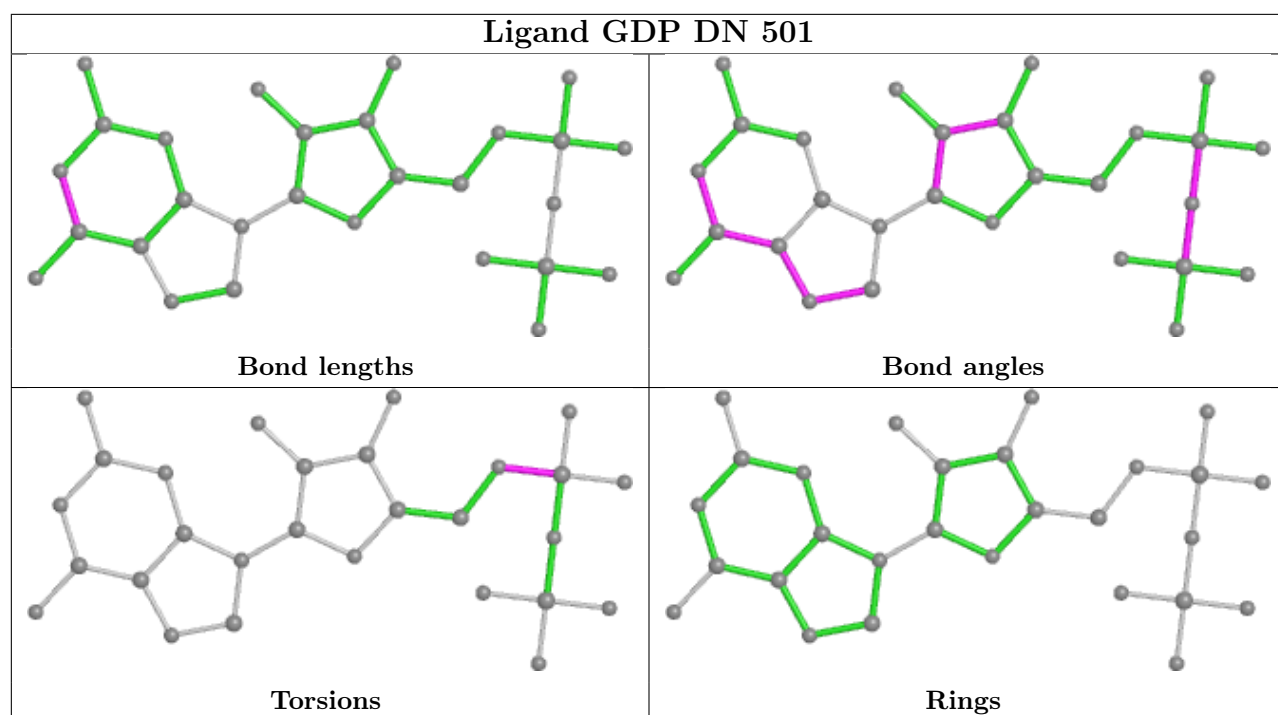


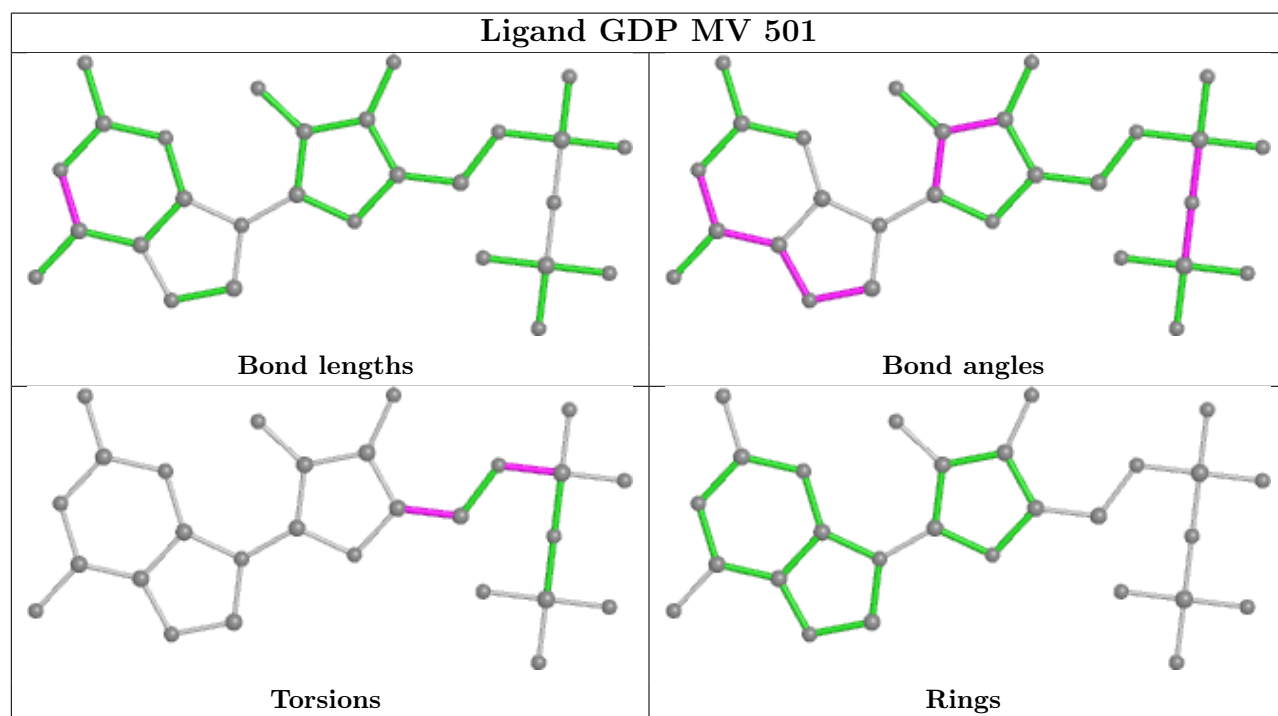
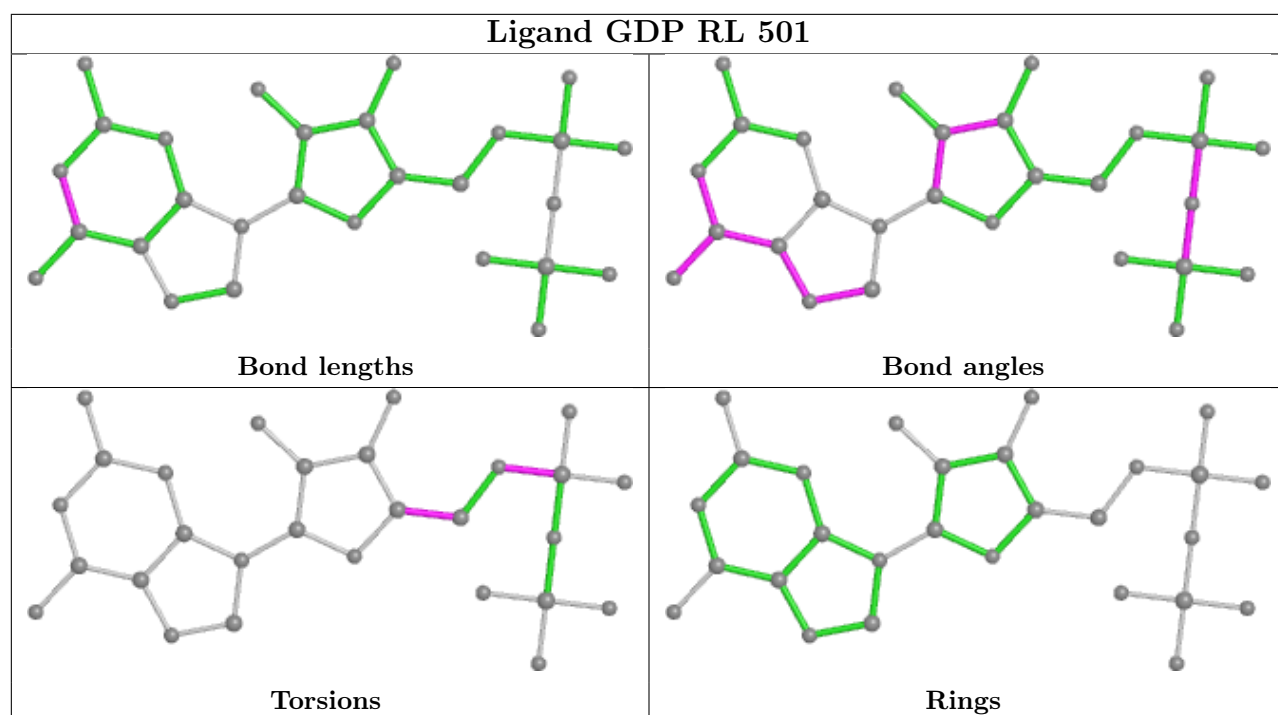
Ligand GTP GG 501



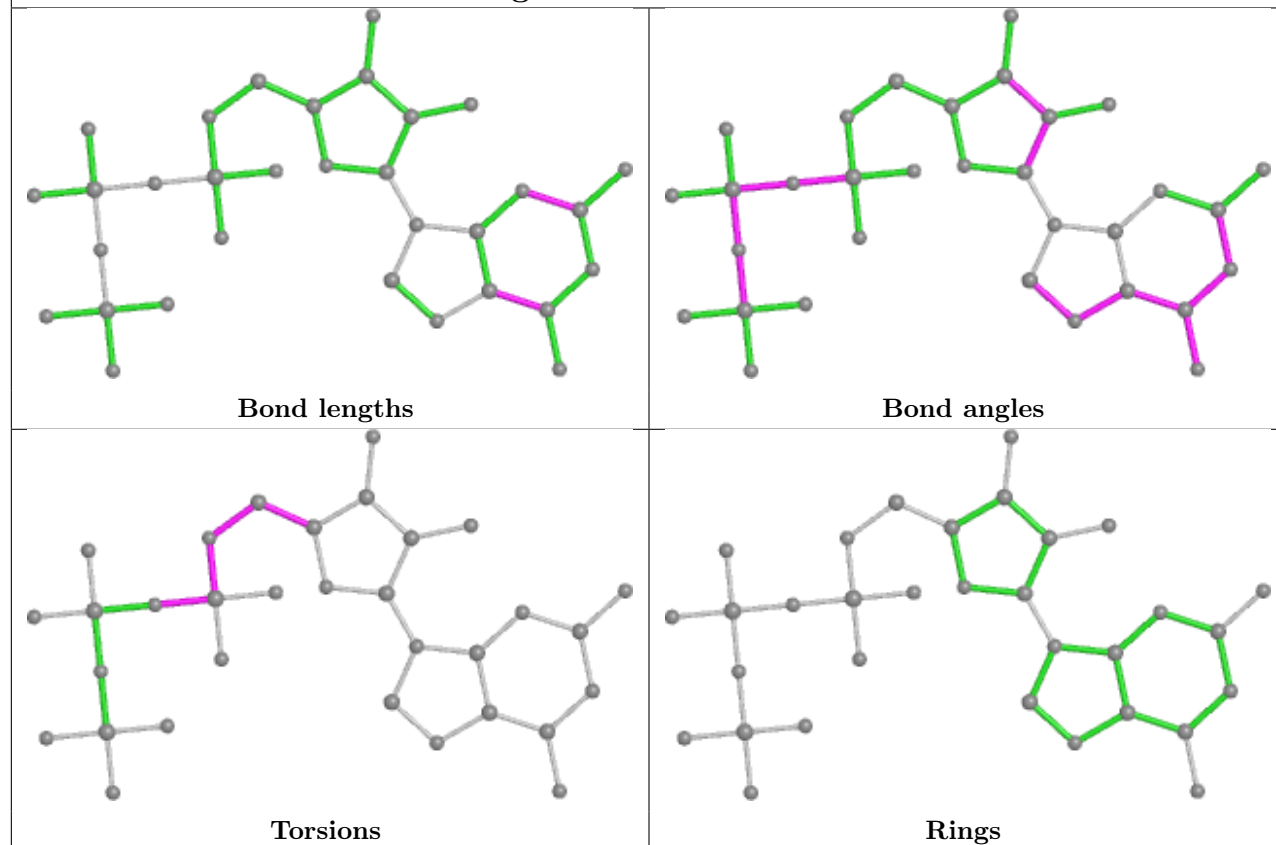
Ligand GTP JD 502



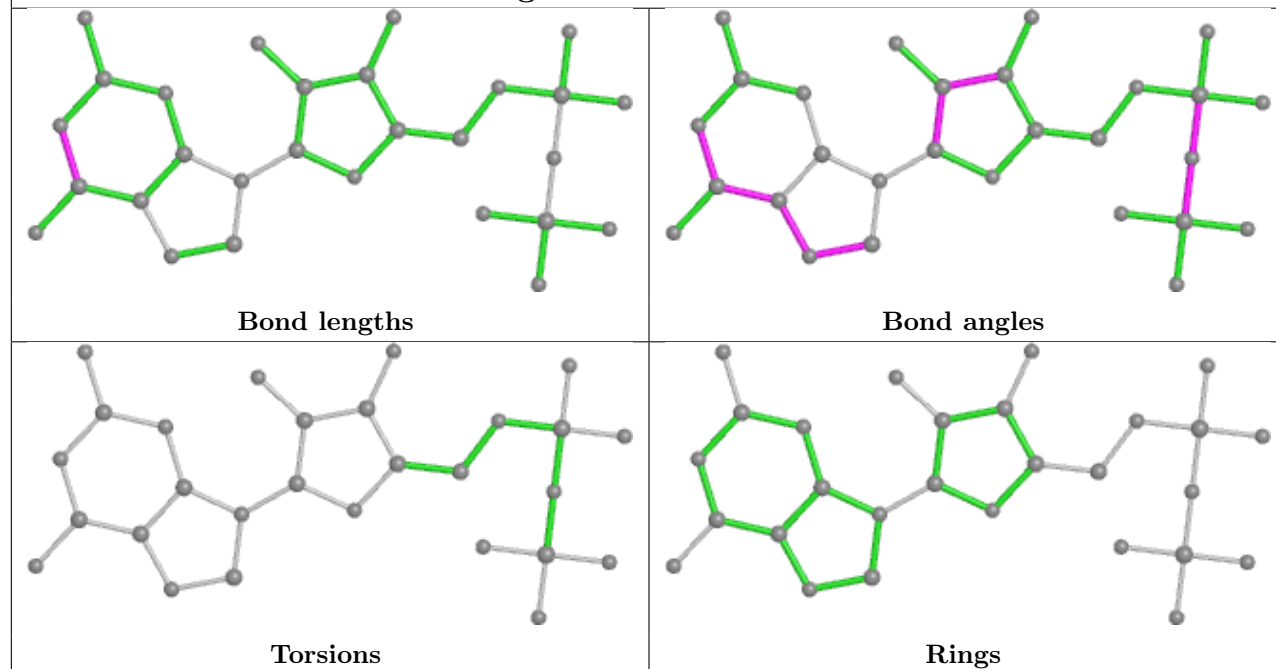




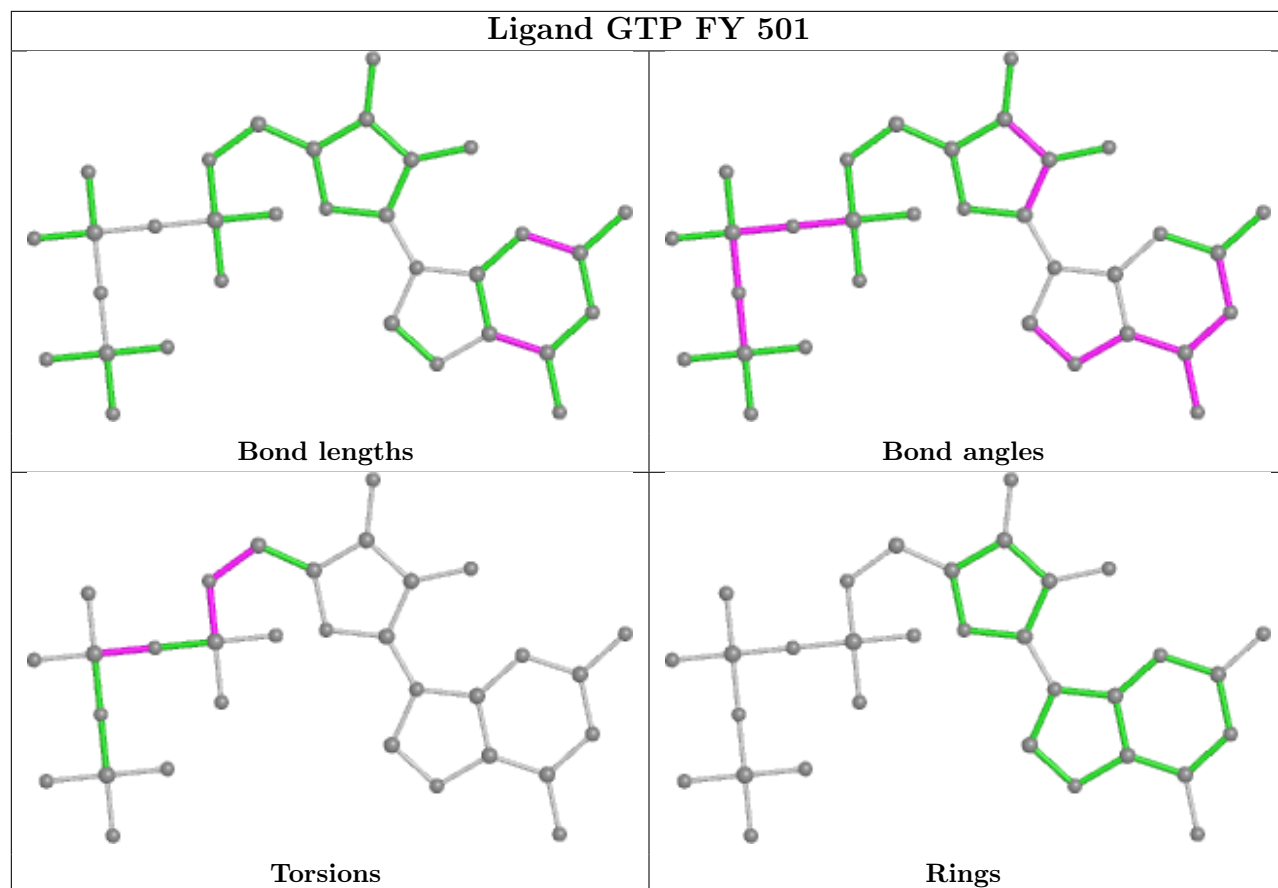
Ligand GTP WG 501



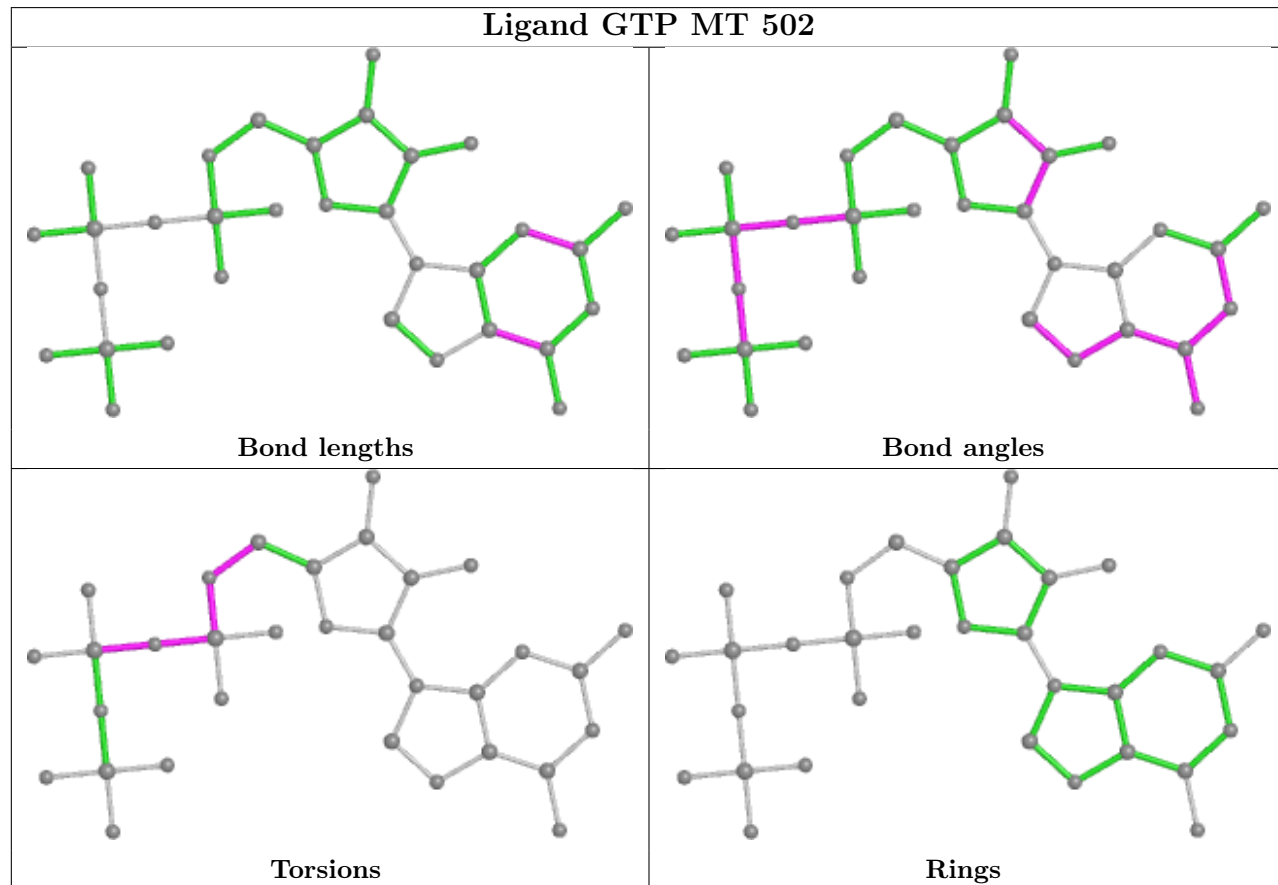
Ligand GDP HL 501



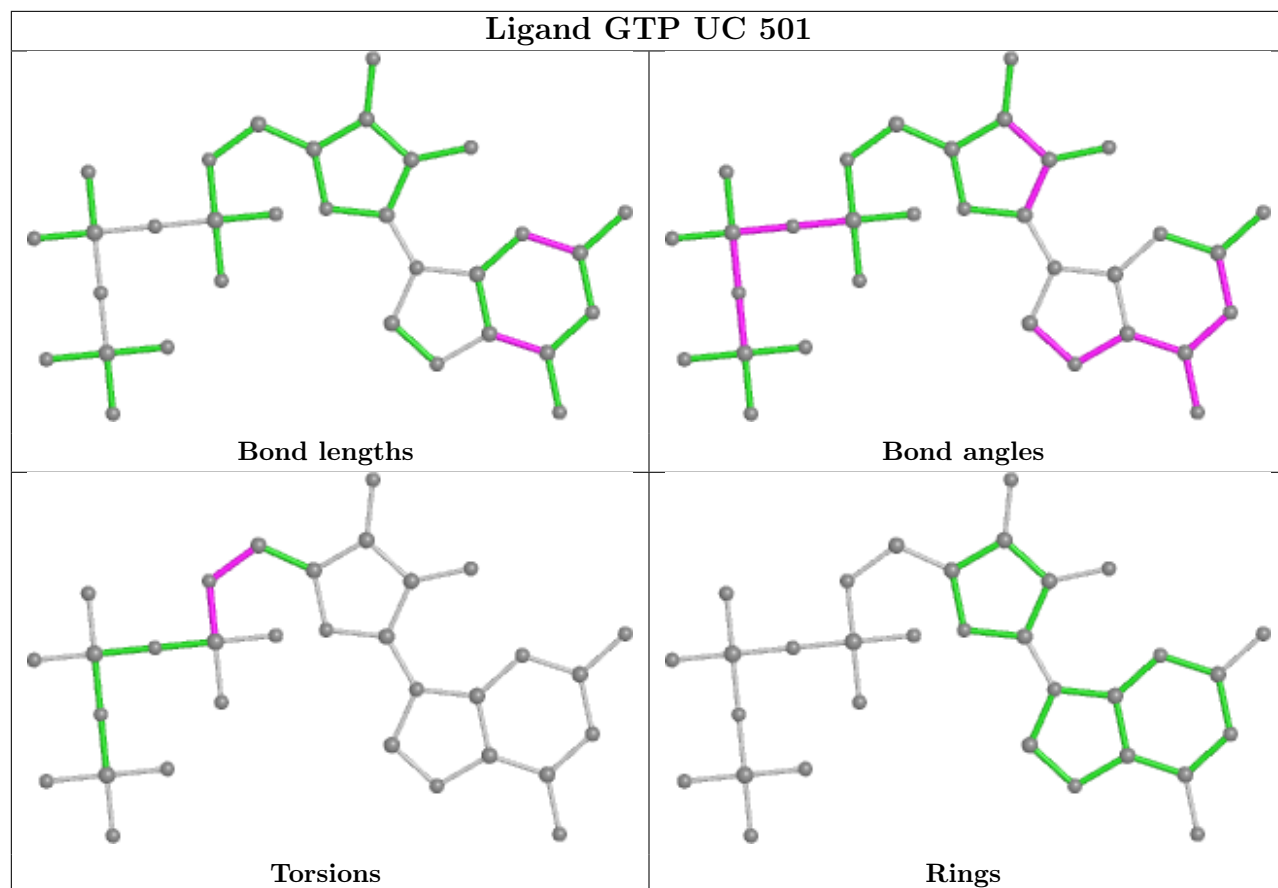
Ligand GTP FY 501



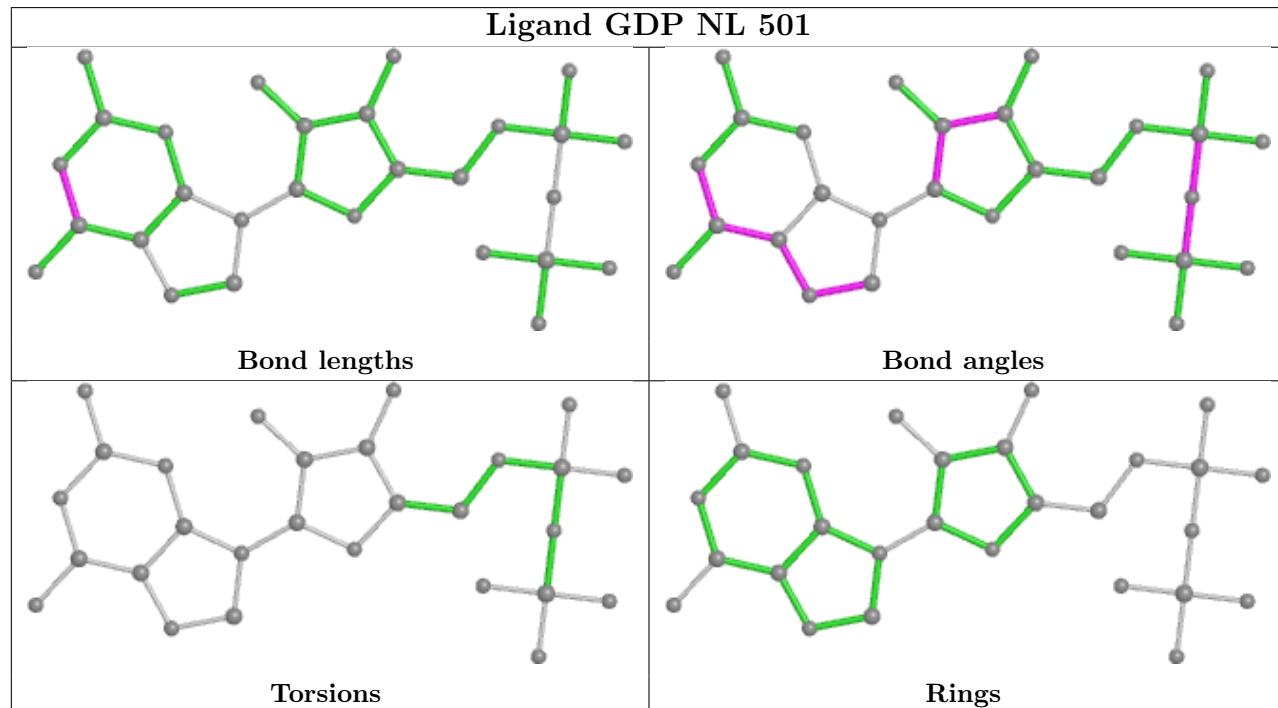
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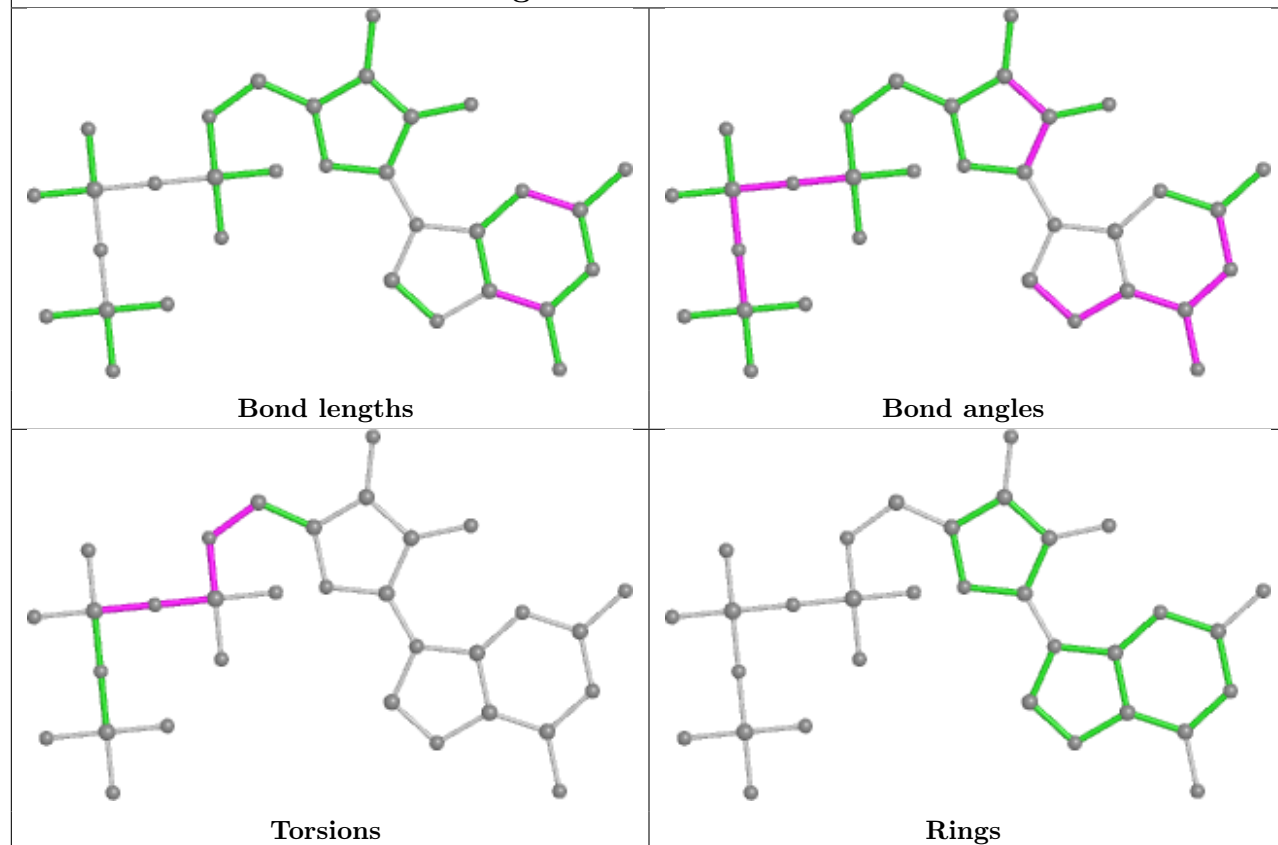
Ligand GTP UC 501



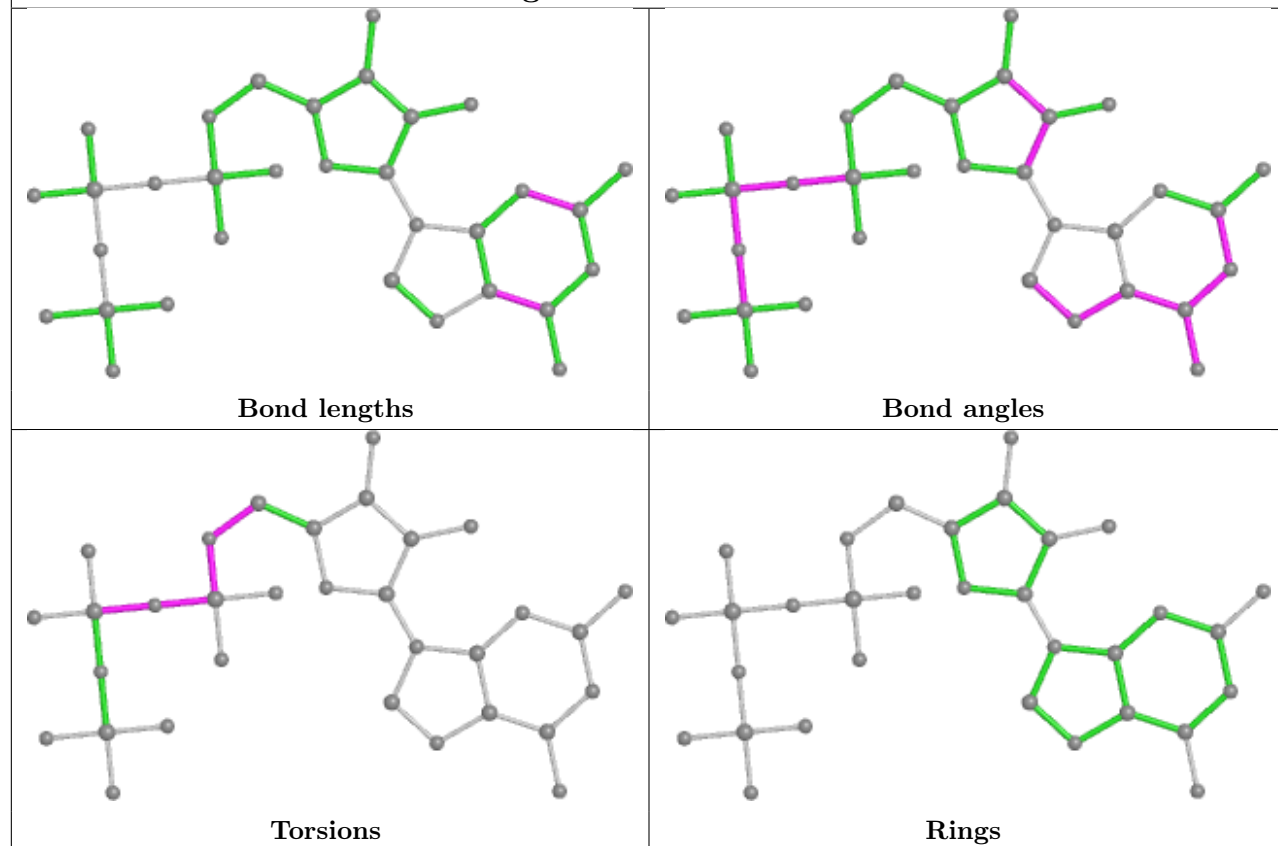
Ligand GDP NL 501



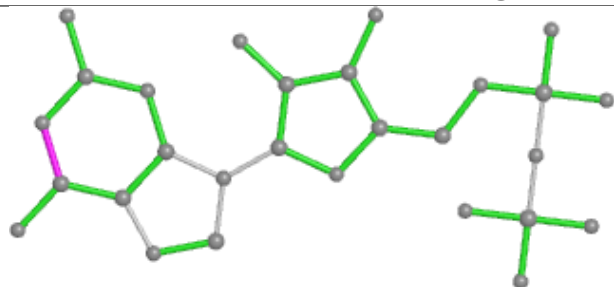
Ligand GTP MG 501



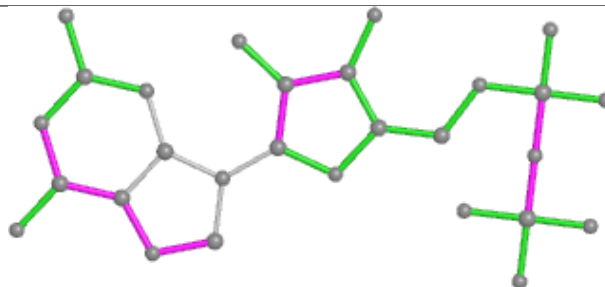
Ligand GTP FS 501



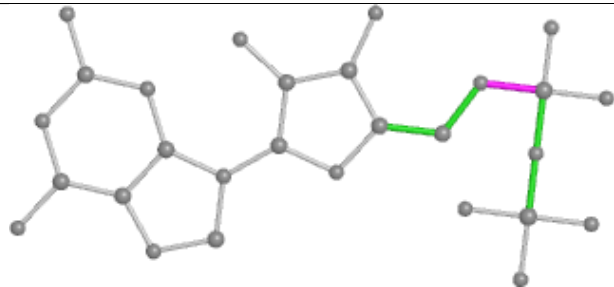
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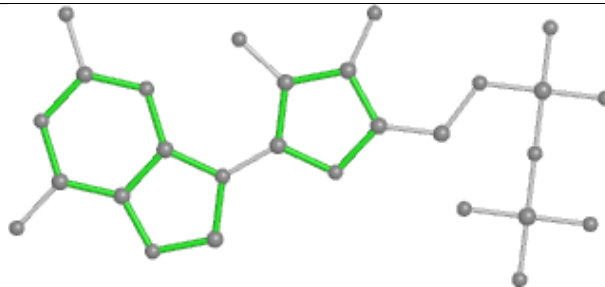
Bond lengths



Bond angles

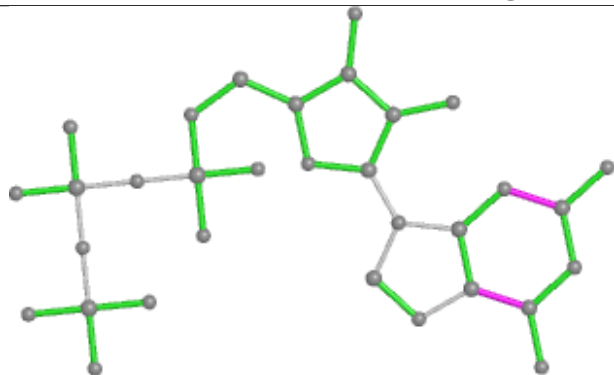


Torsions

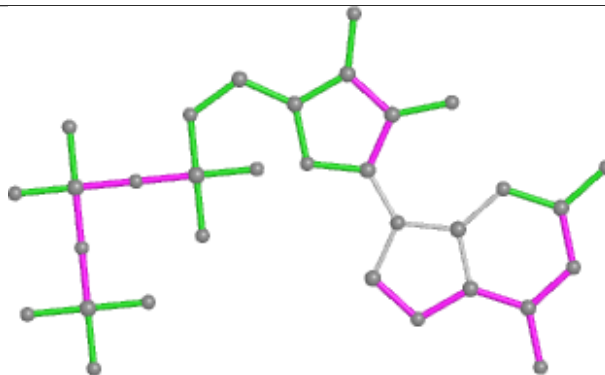


Rings

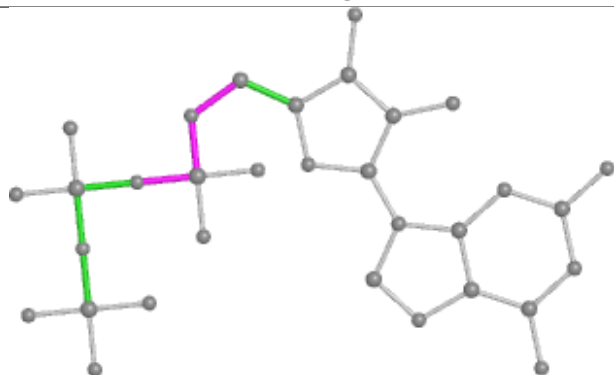
Ligand GTP AS 501



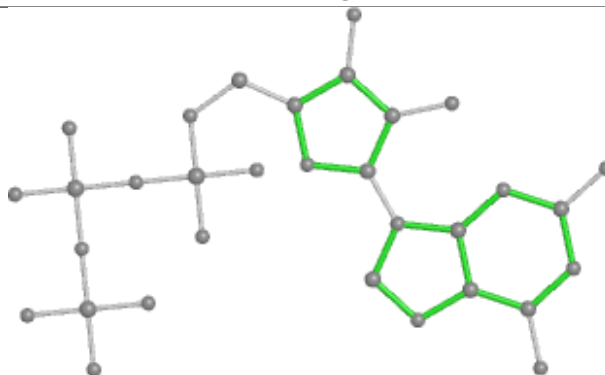
Bond lengths



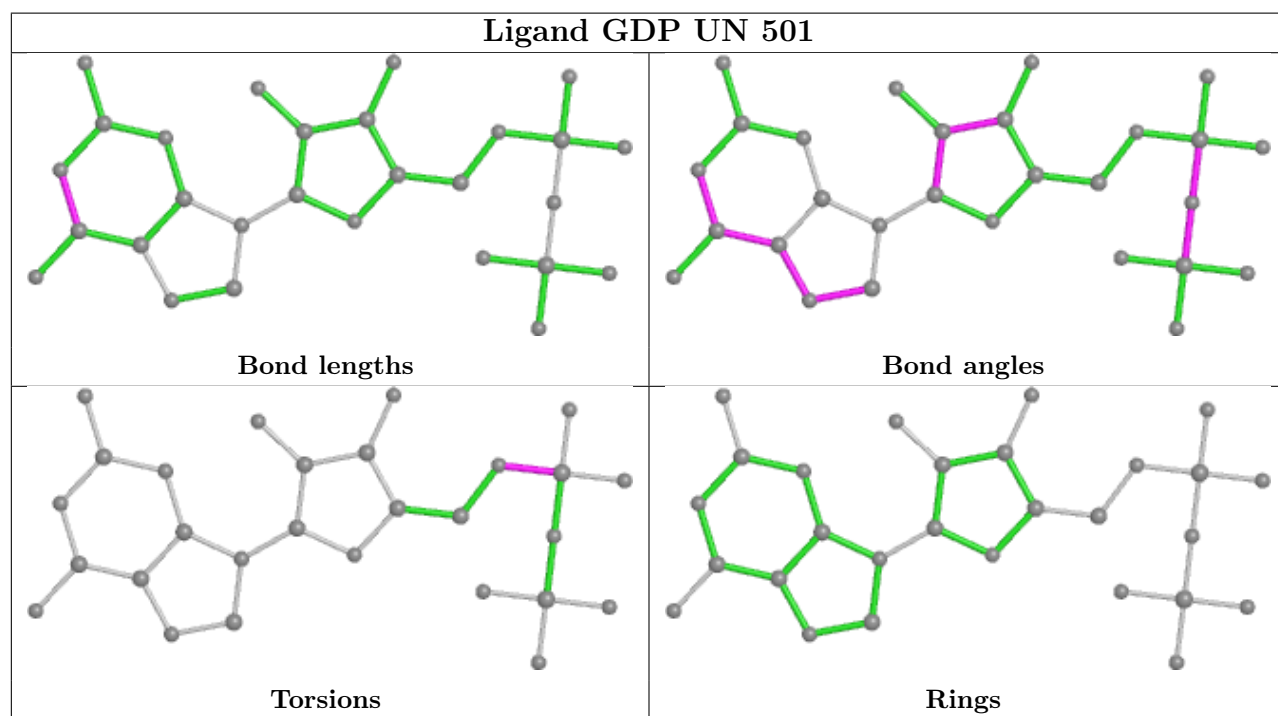
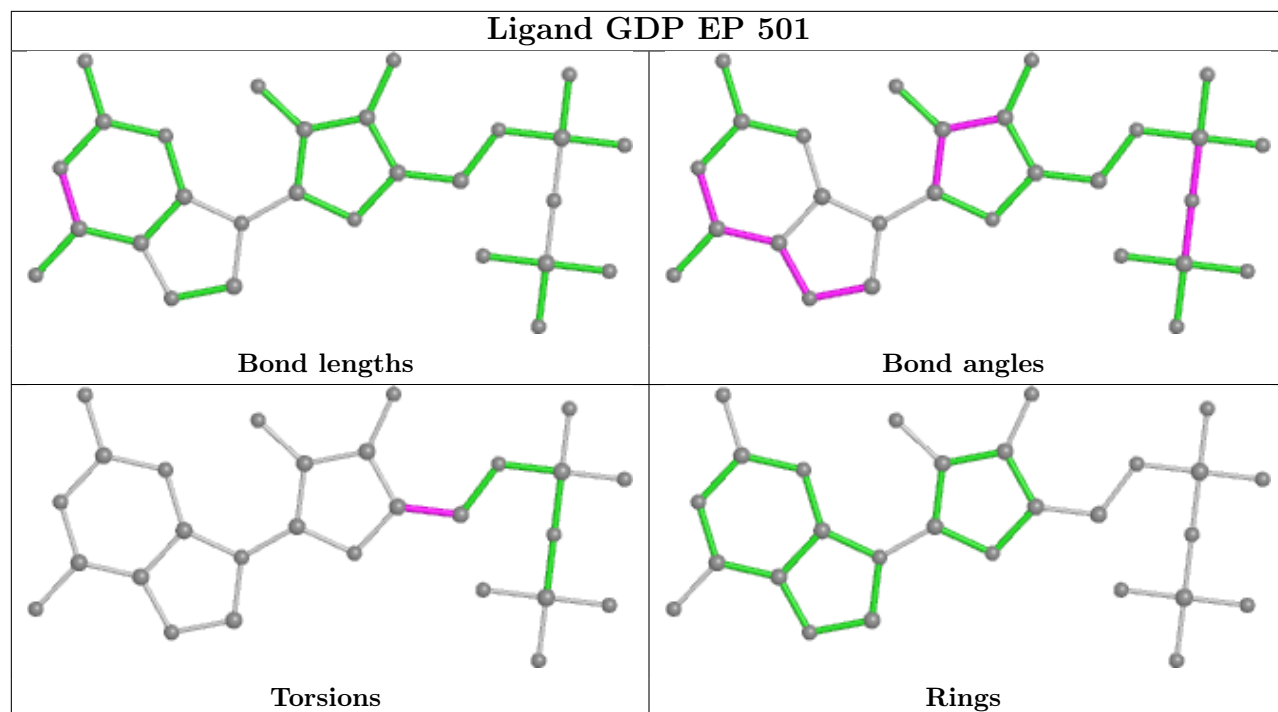
Bond angles

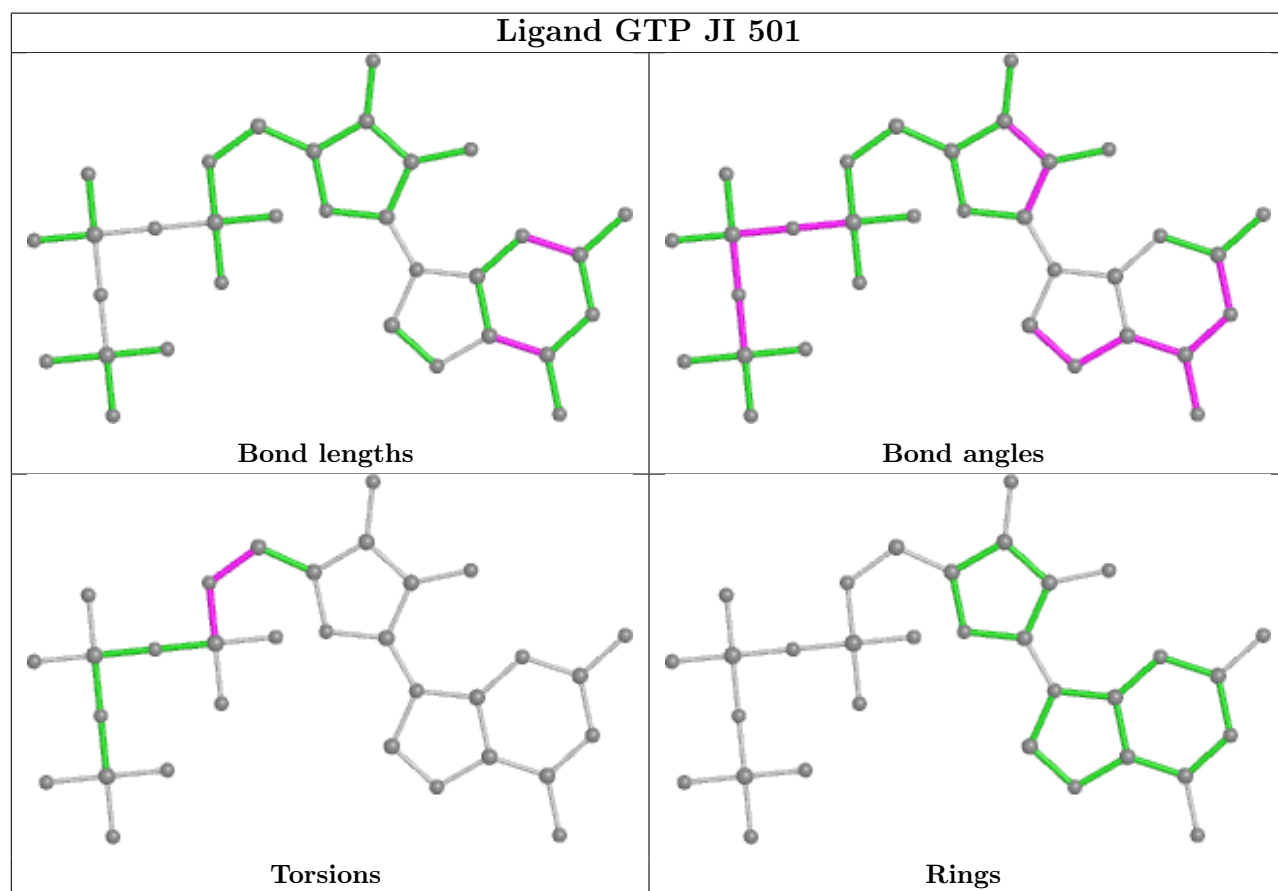
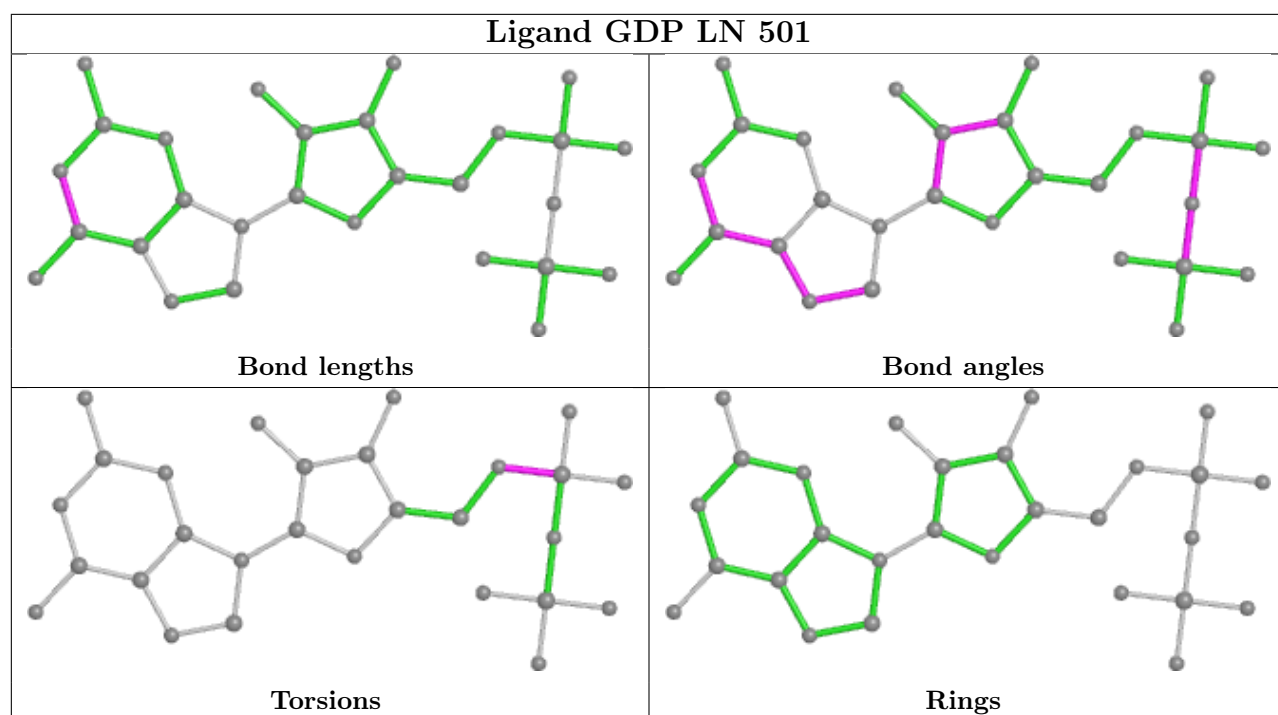


Torsions

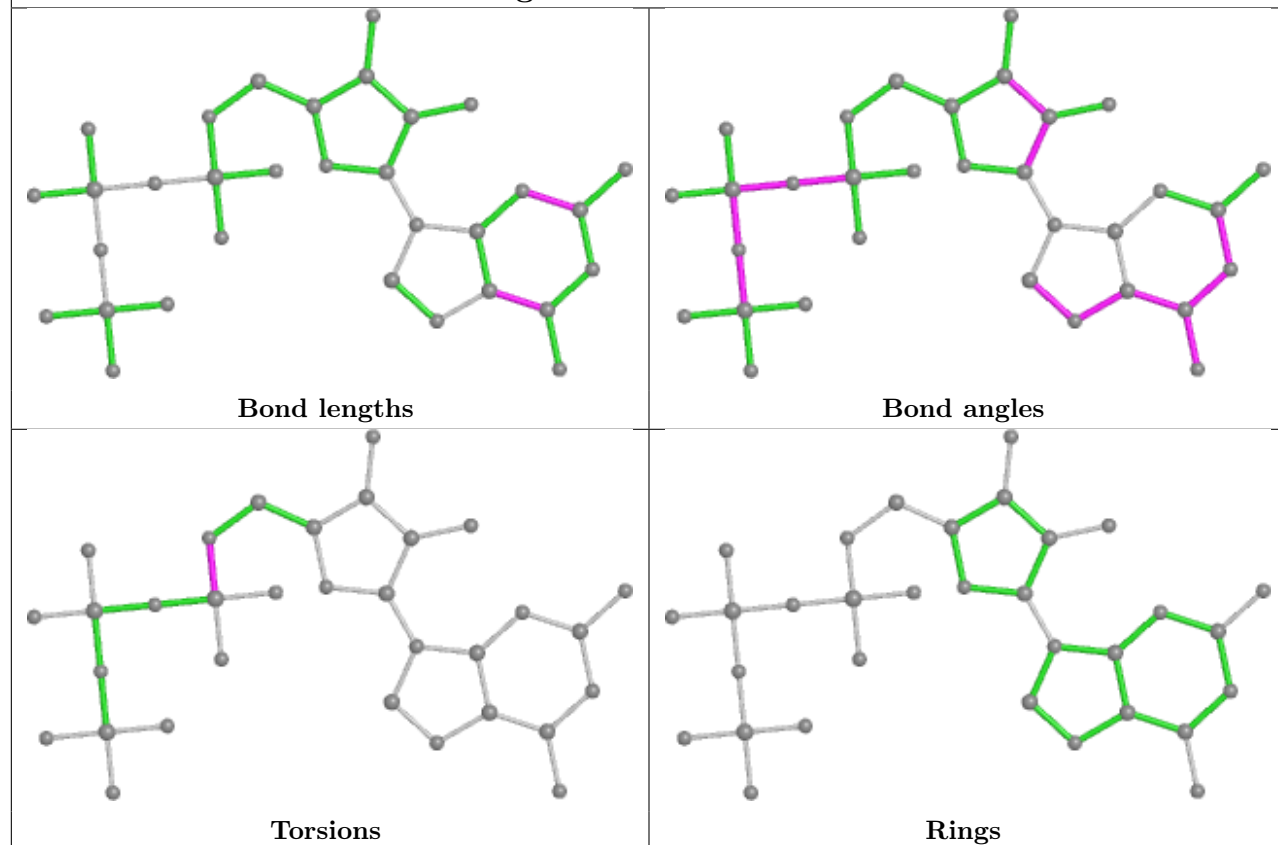


Rings

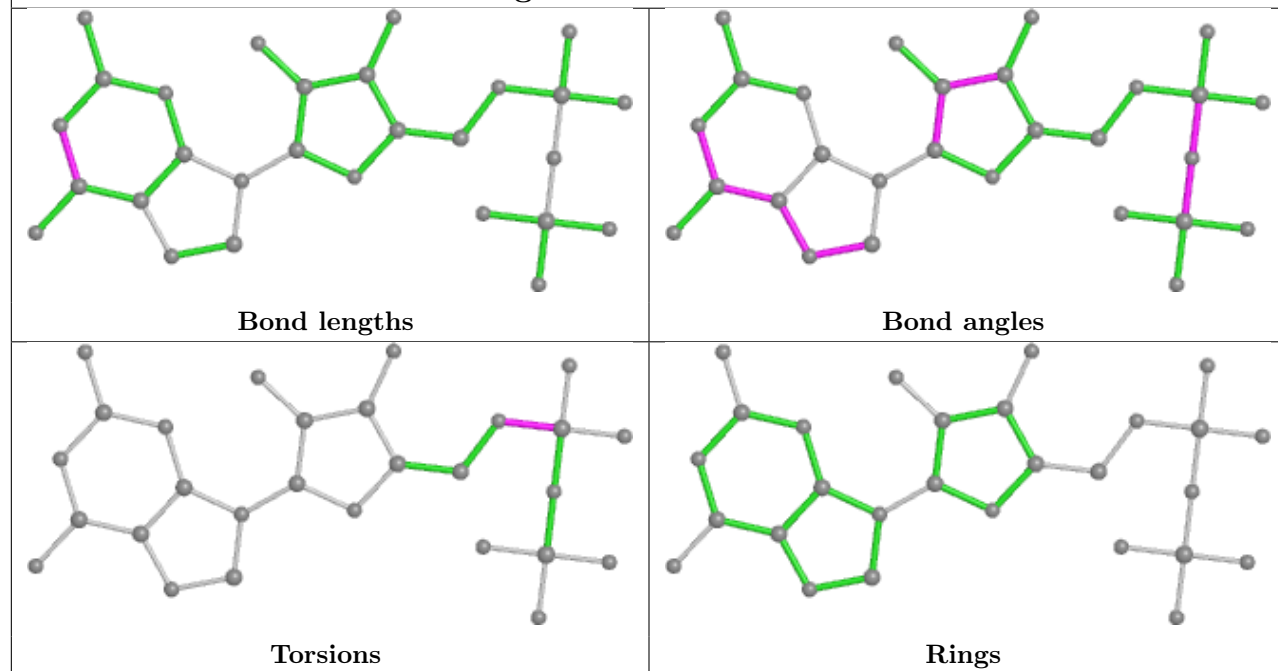


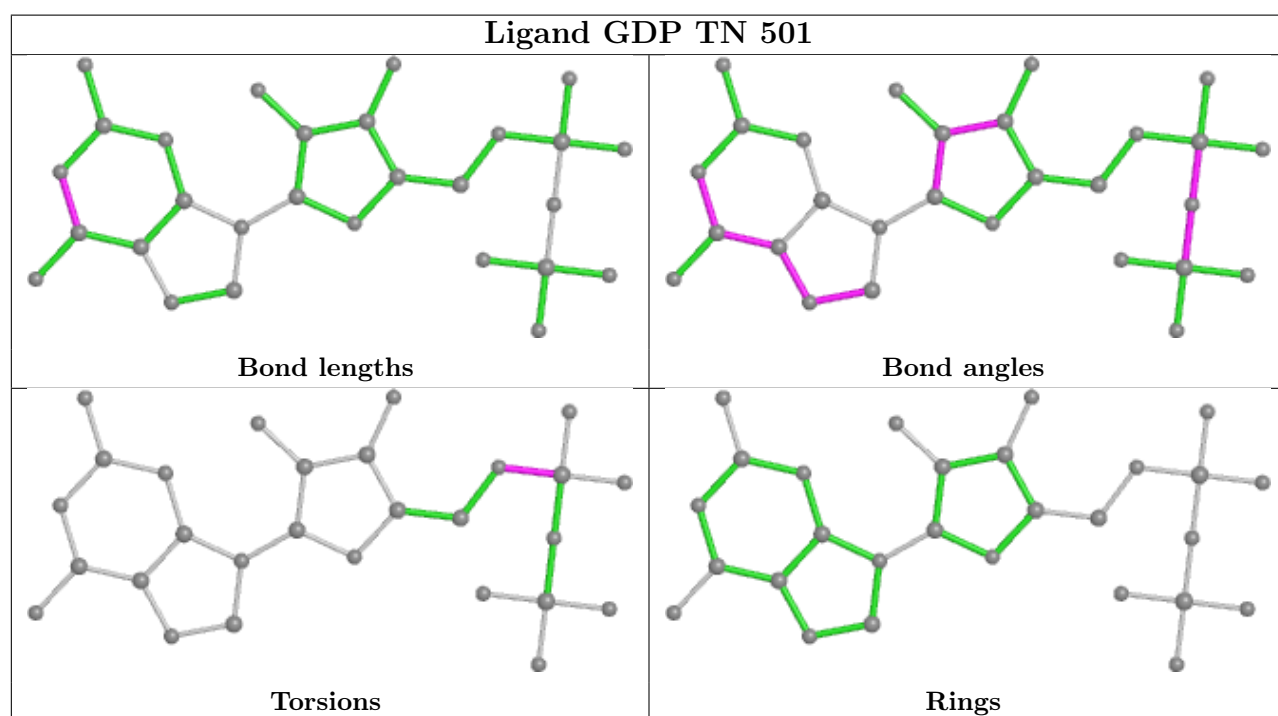
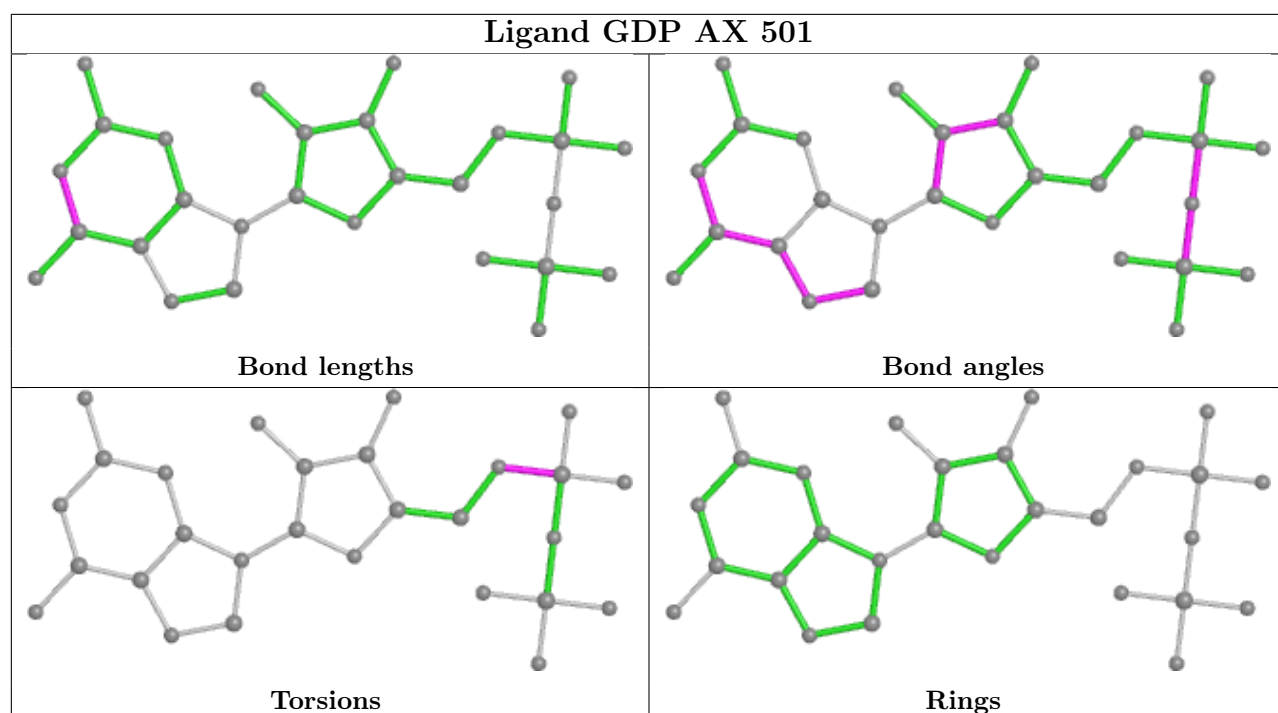


Ligand GTP VK 501

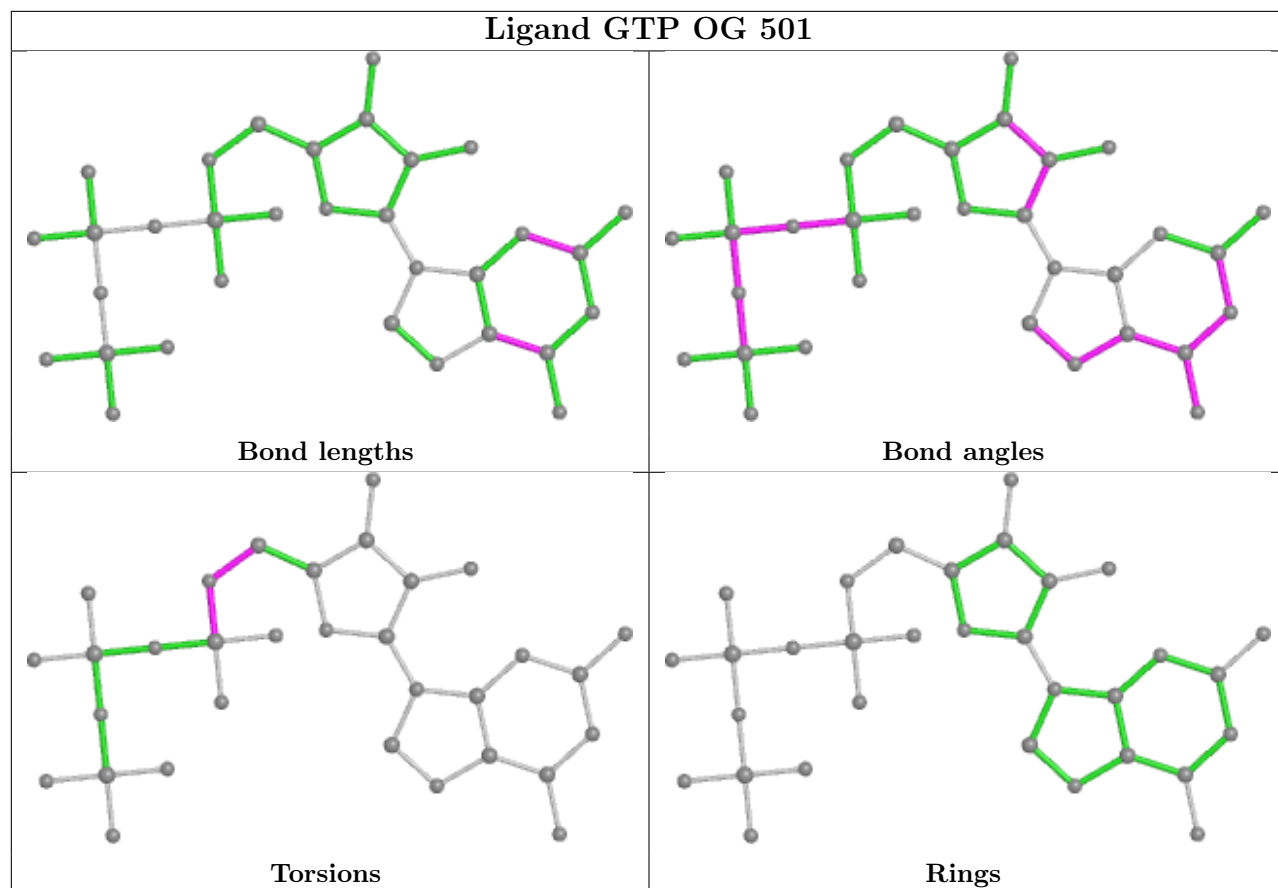


Ligand GDP WJ 501

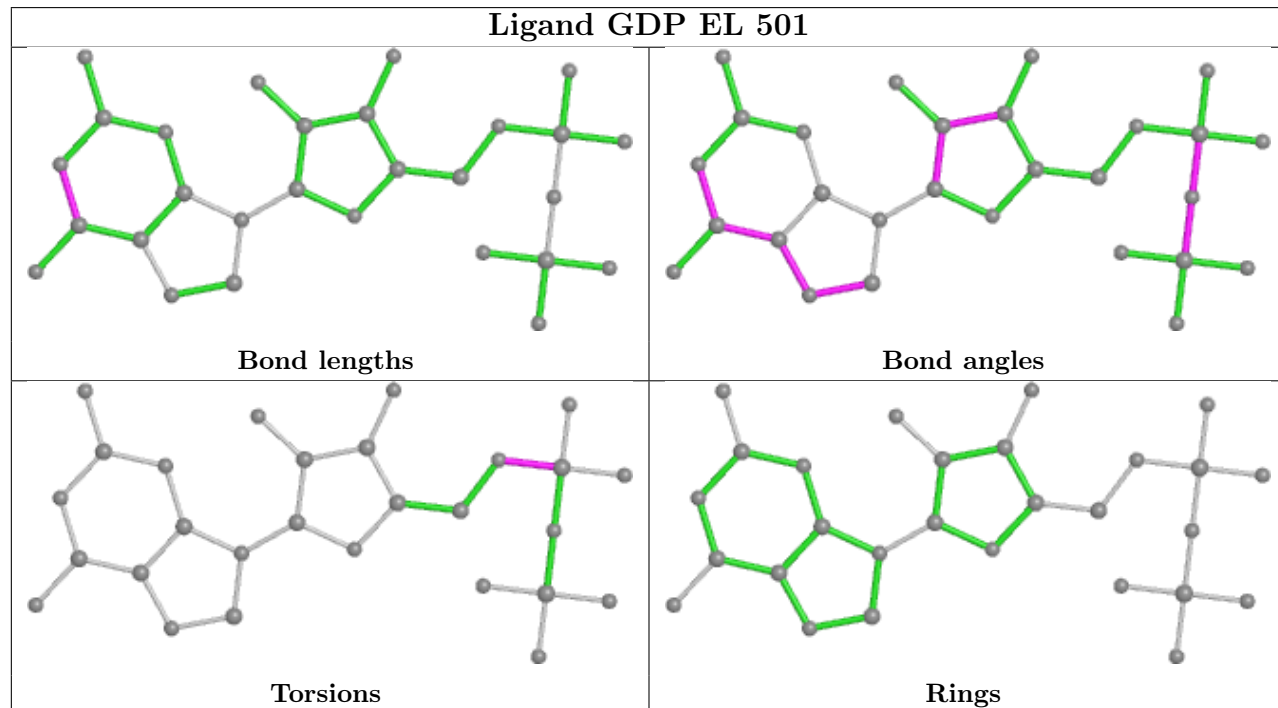




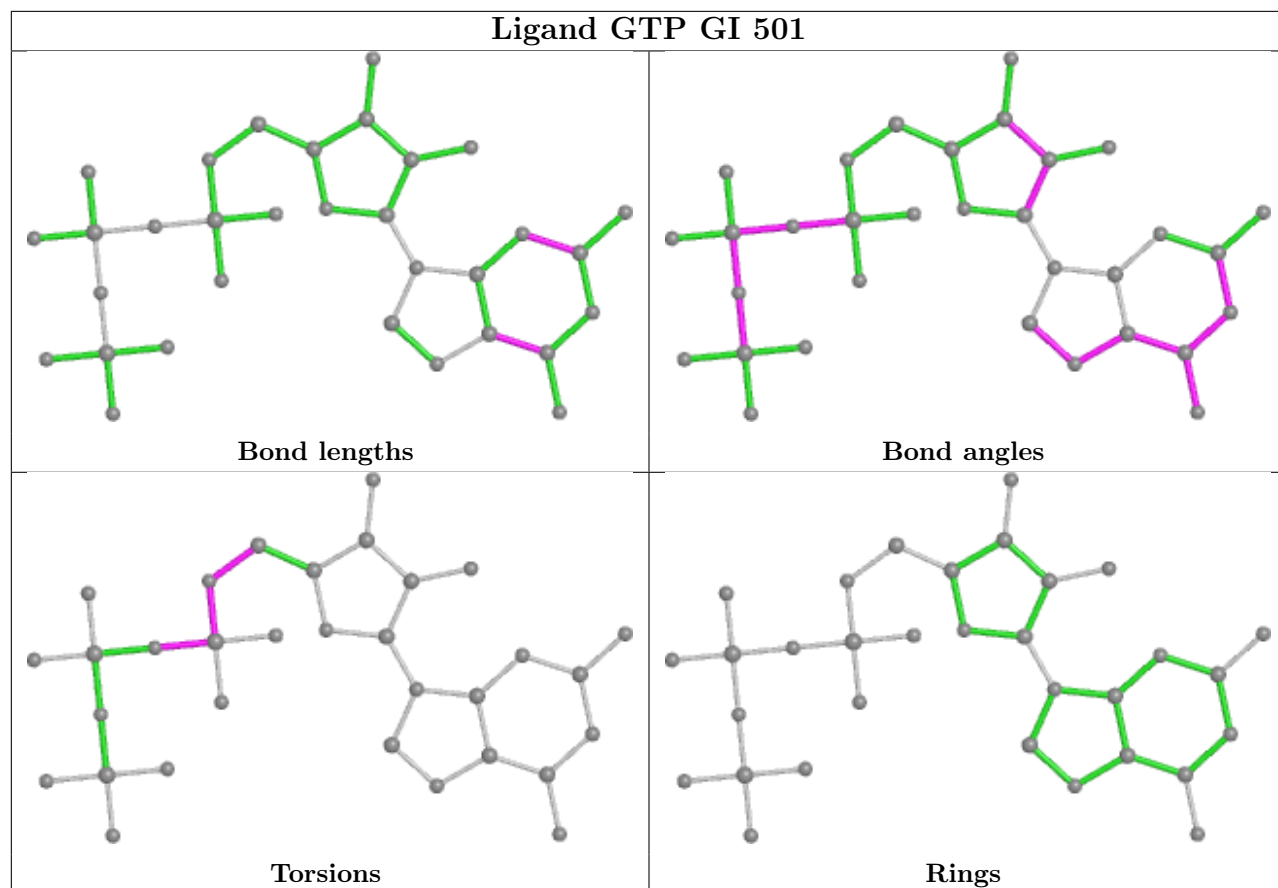
Ligand GTP OG 501



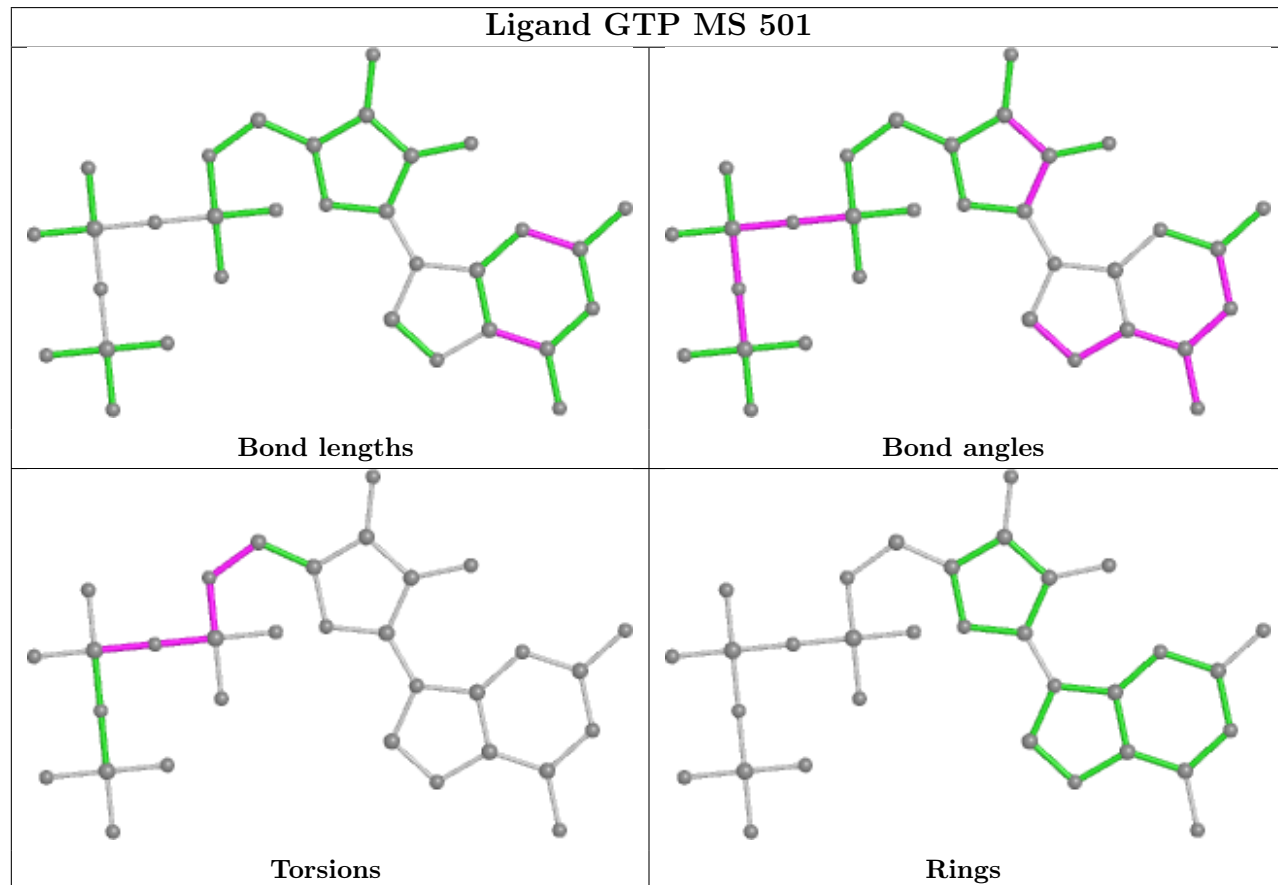
Ligand GDP EL 501



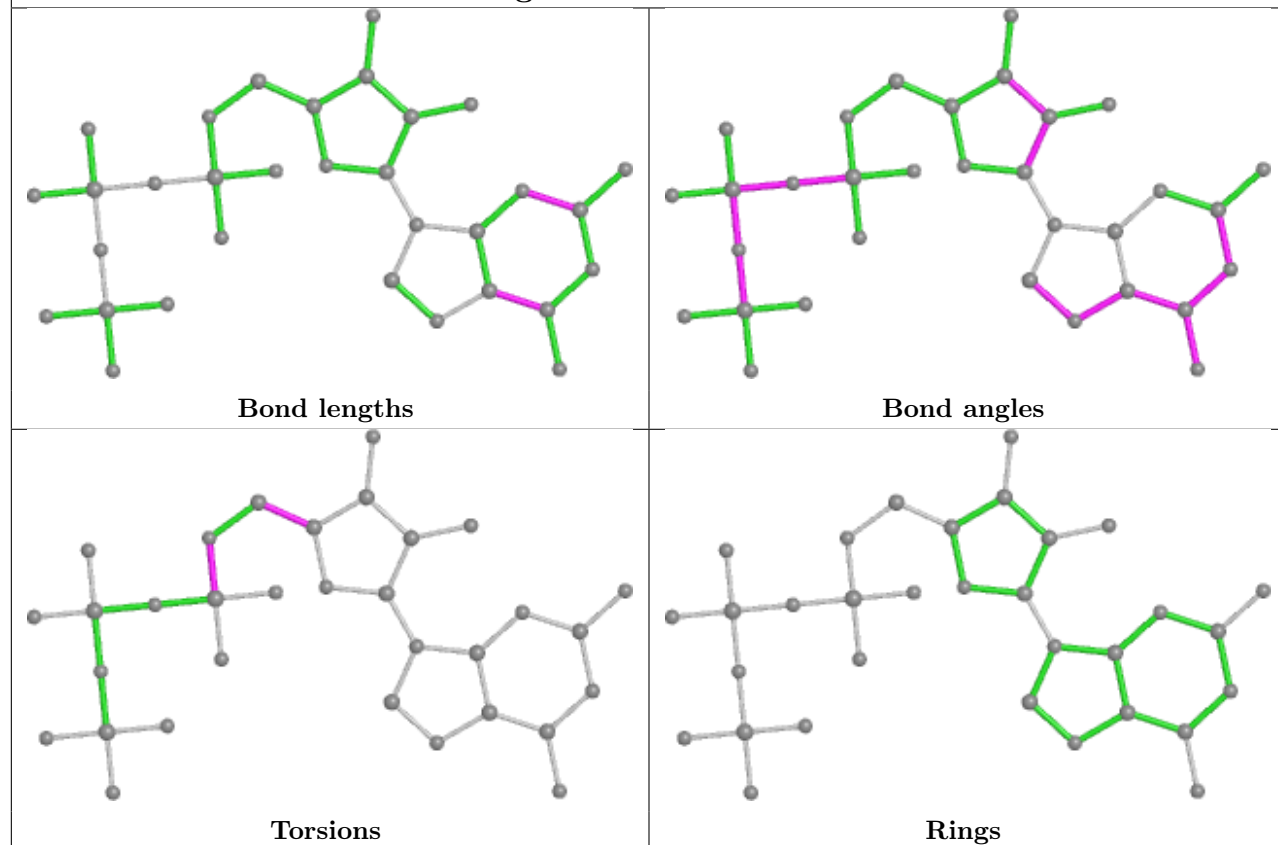
Ligand GTP GI 501



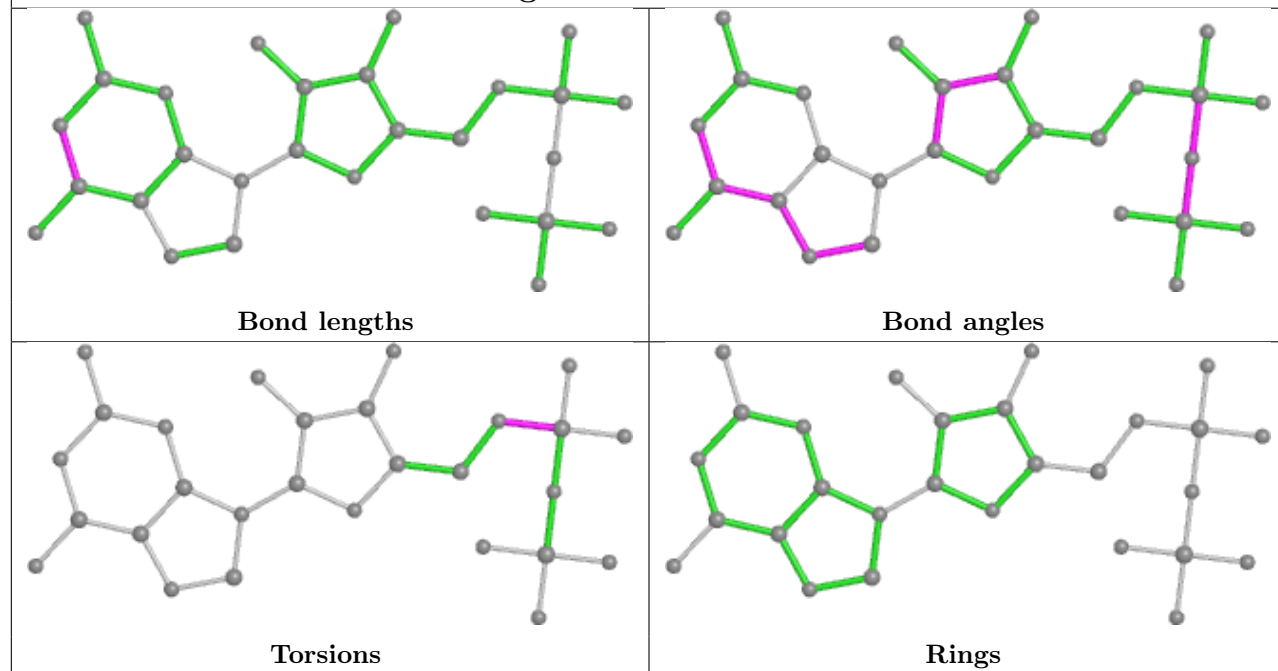
Ligand GTP MS 501



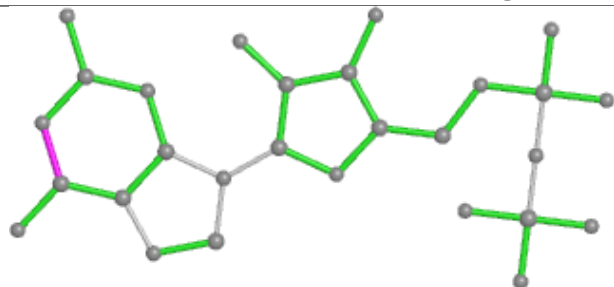
Ligand GTP WS 501



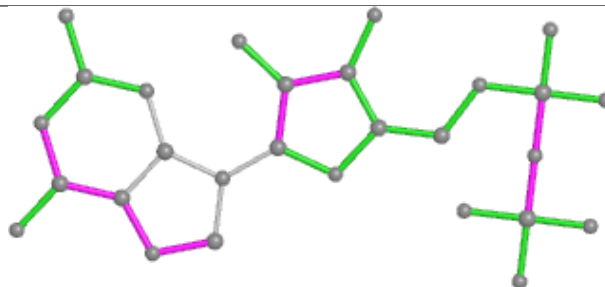
Ligand GDP DJ 501



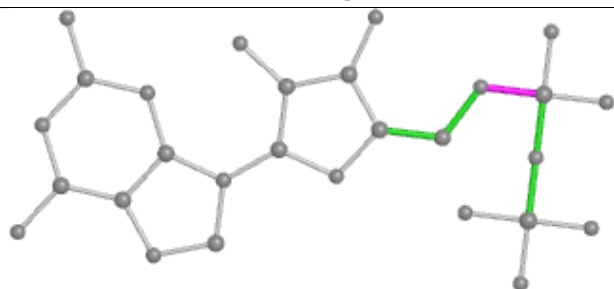
Ligand GDP EH 501



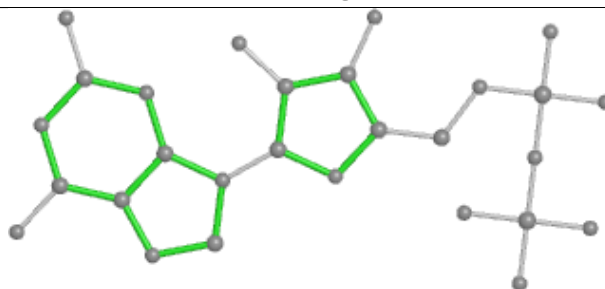
Bond lengths



Bond angles

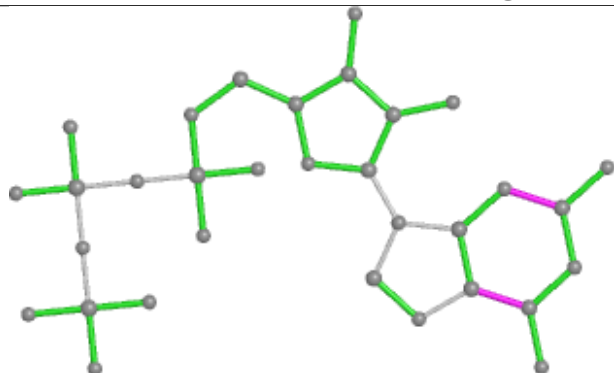


Torsions

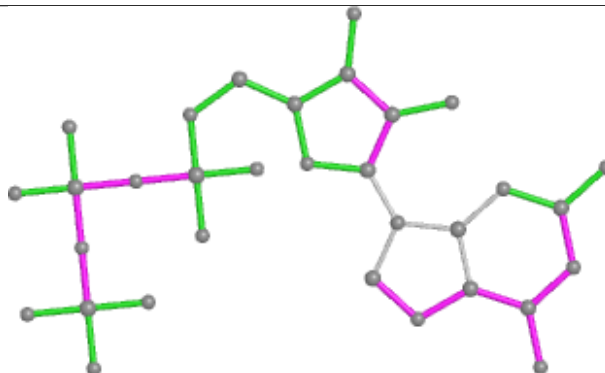


Rings

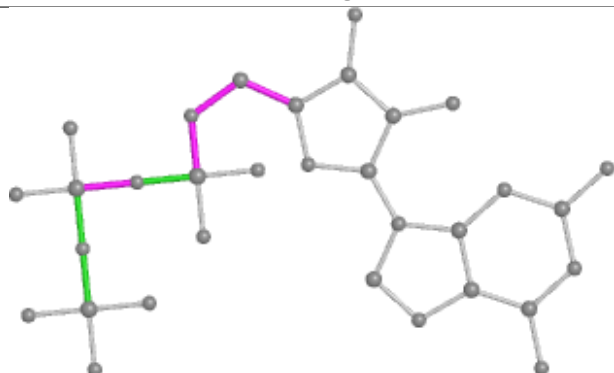
Ligand GTP PN 502



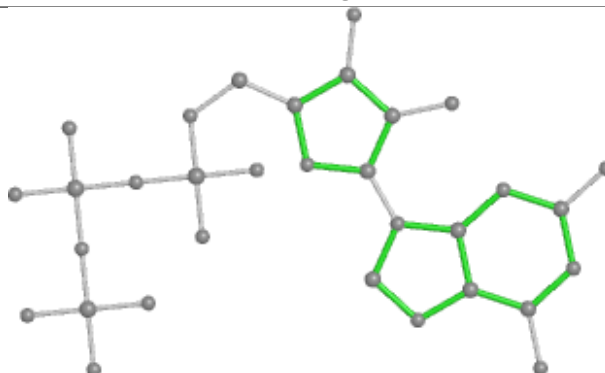
Bond lengths



Bond angles

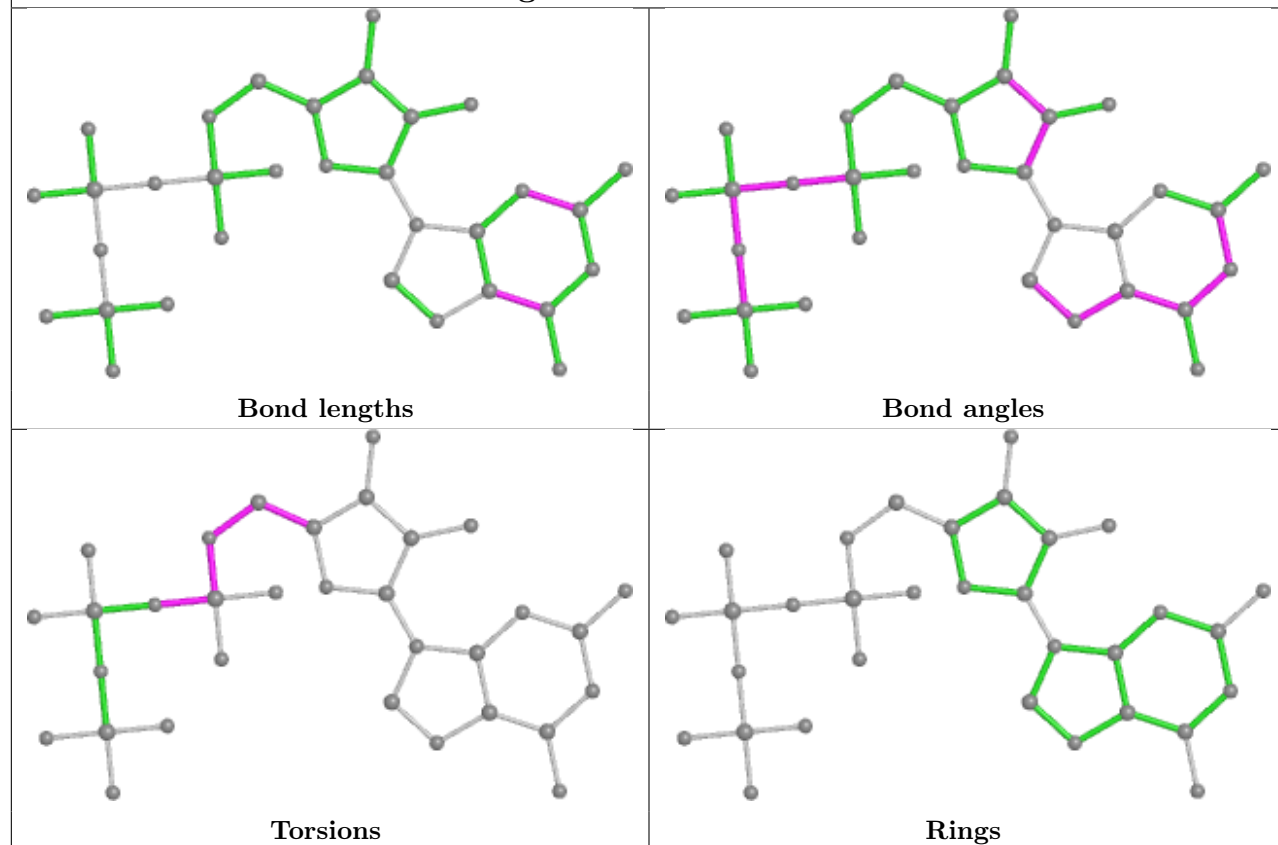


Torsions

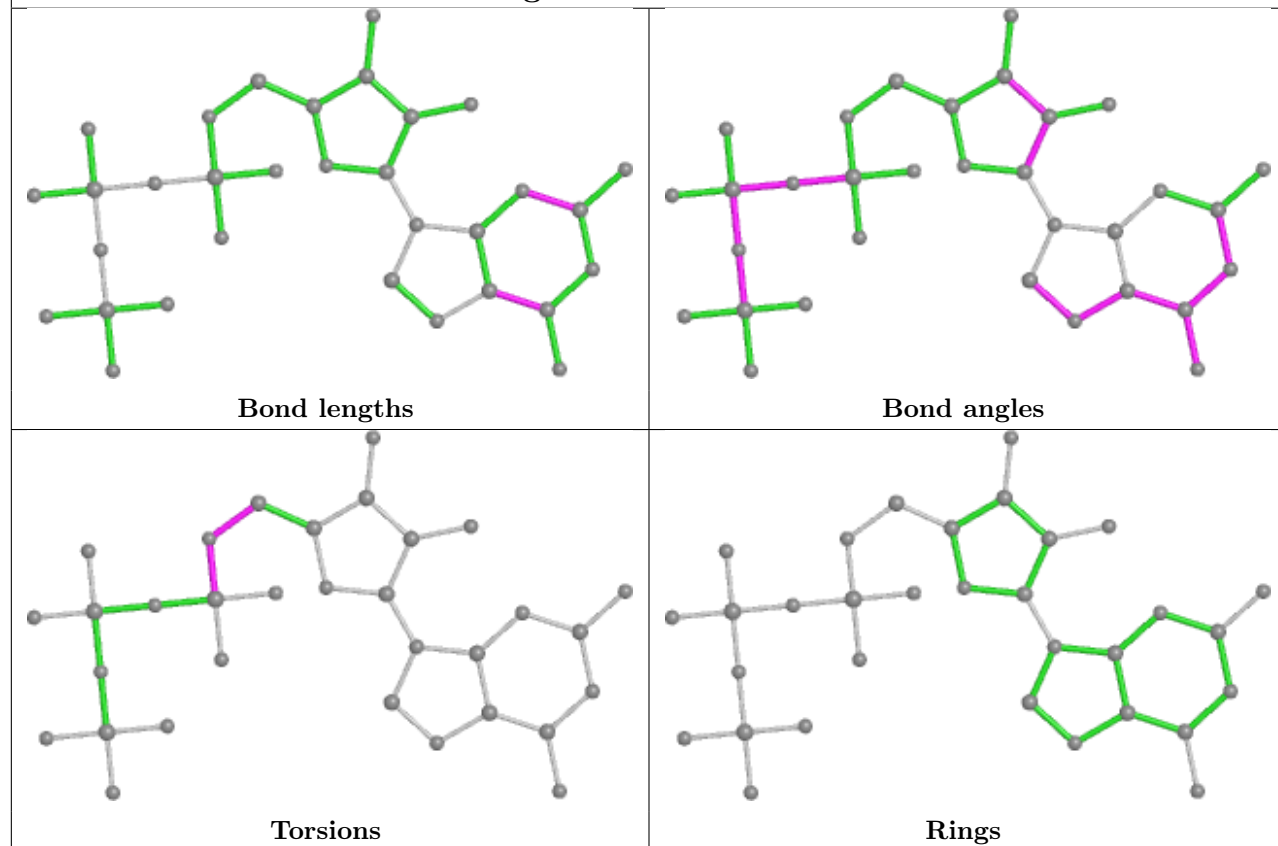


Rings

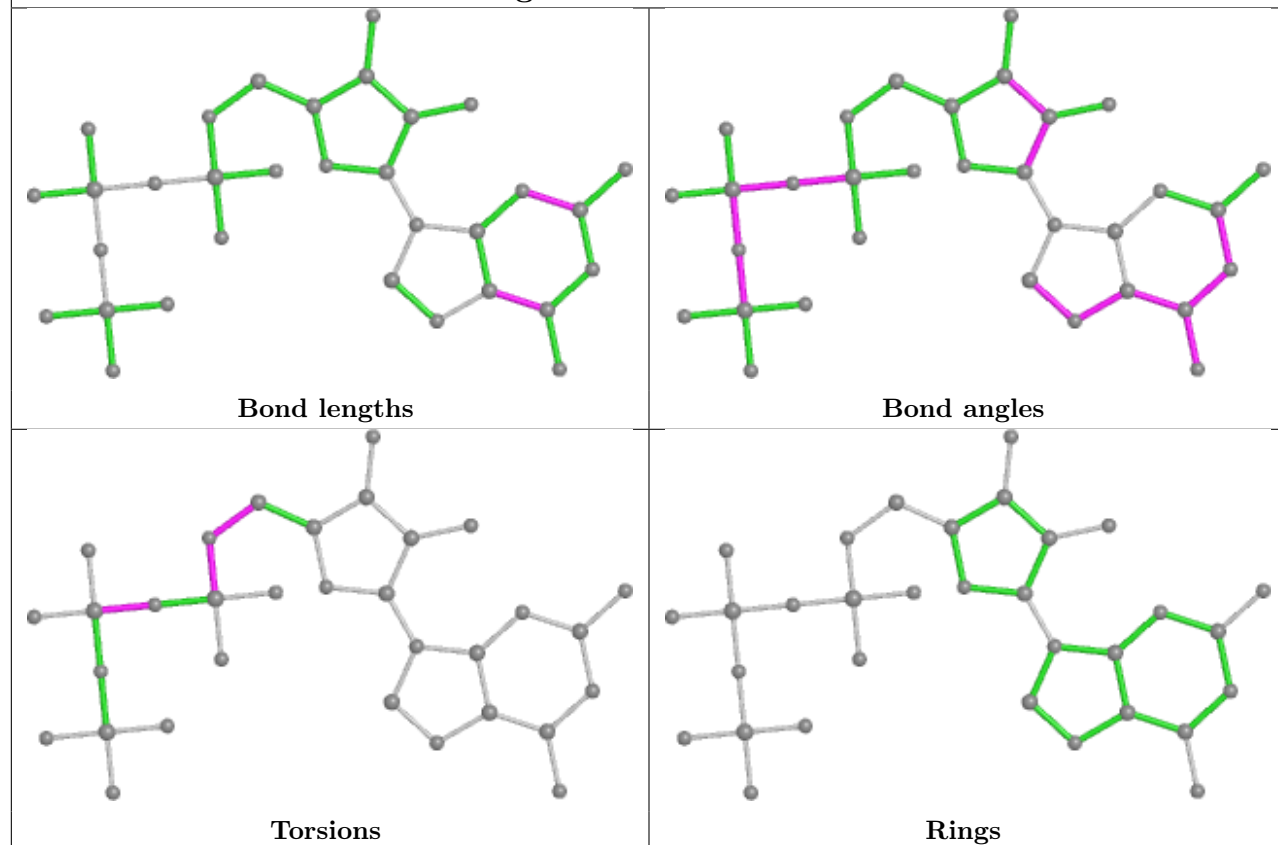
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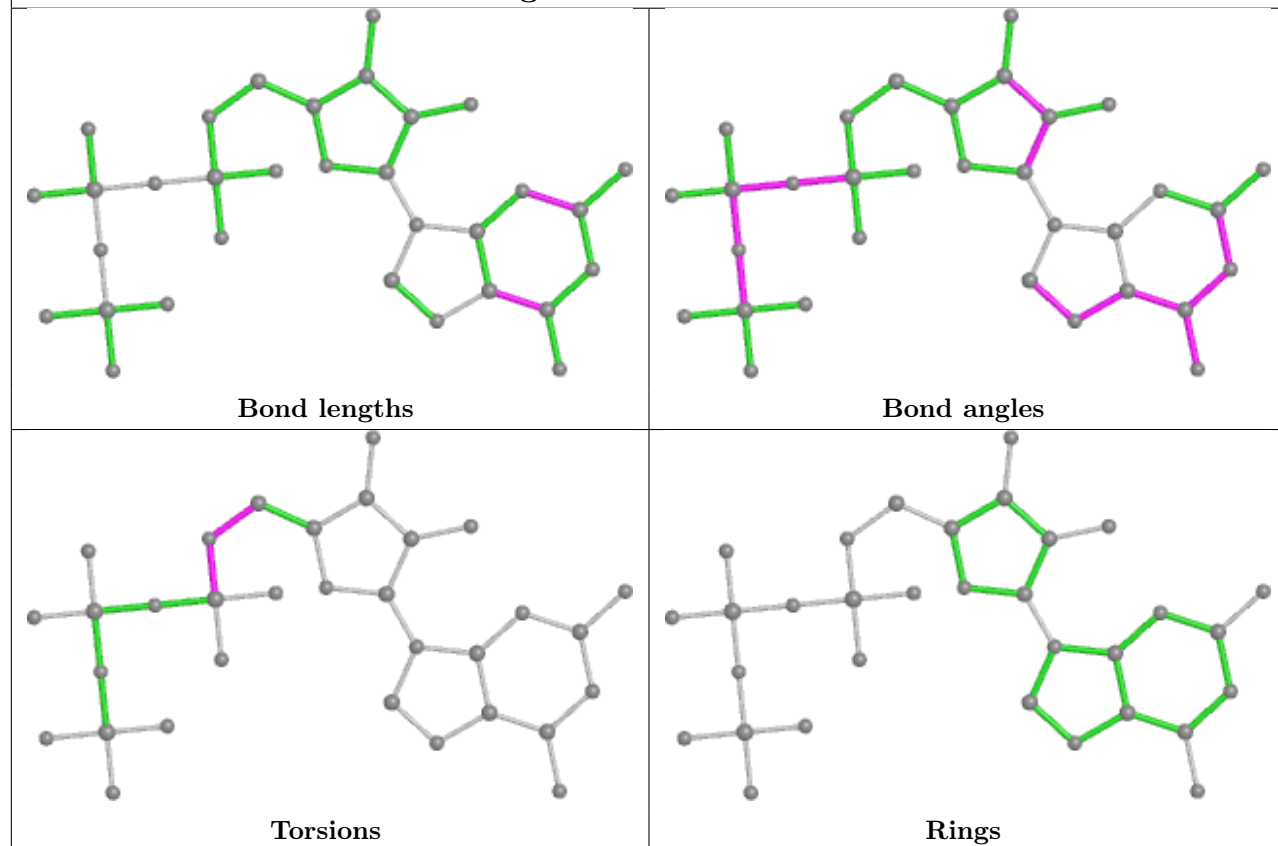
Ligand GTP IU 501



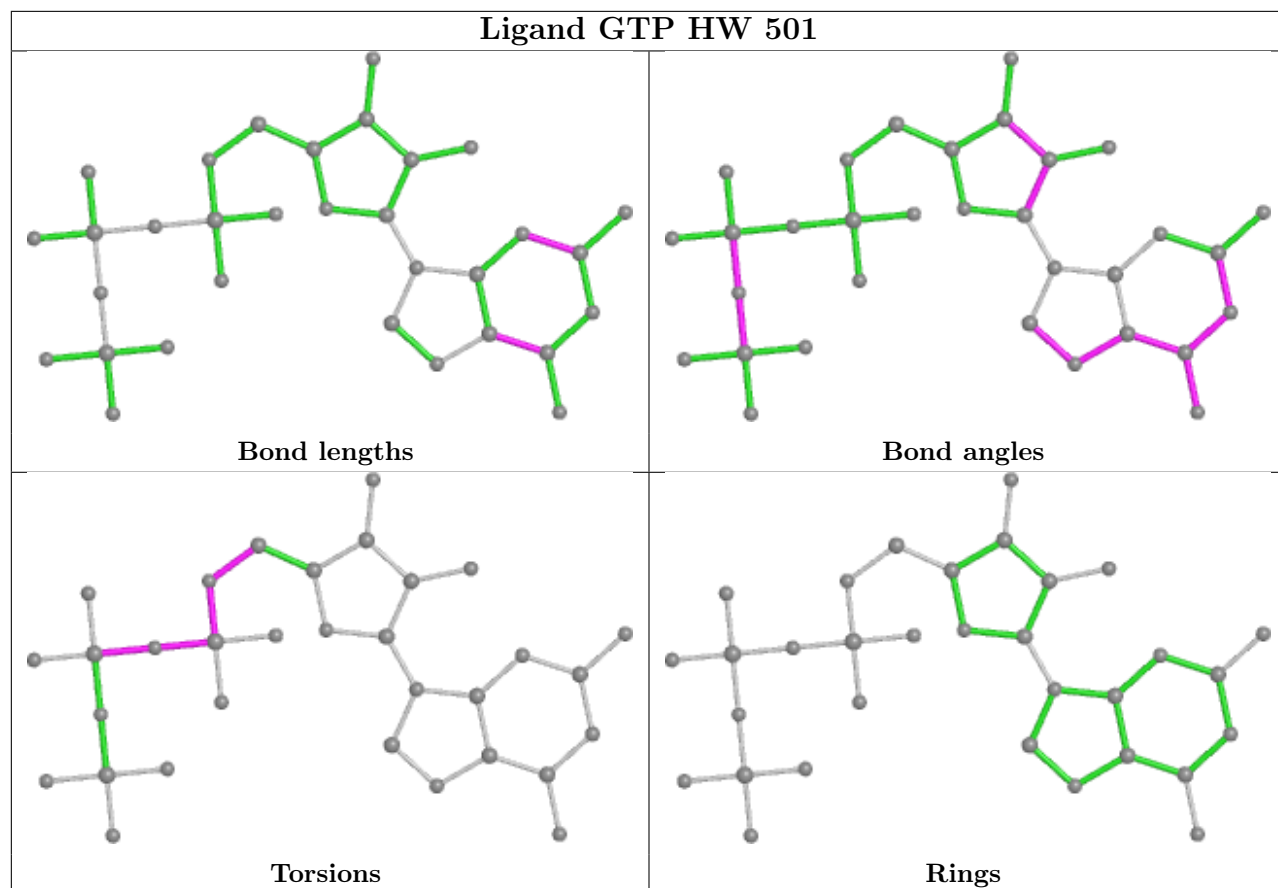
Ligand GTP KN 502



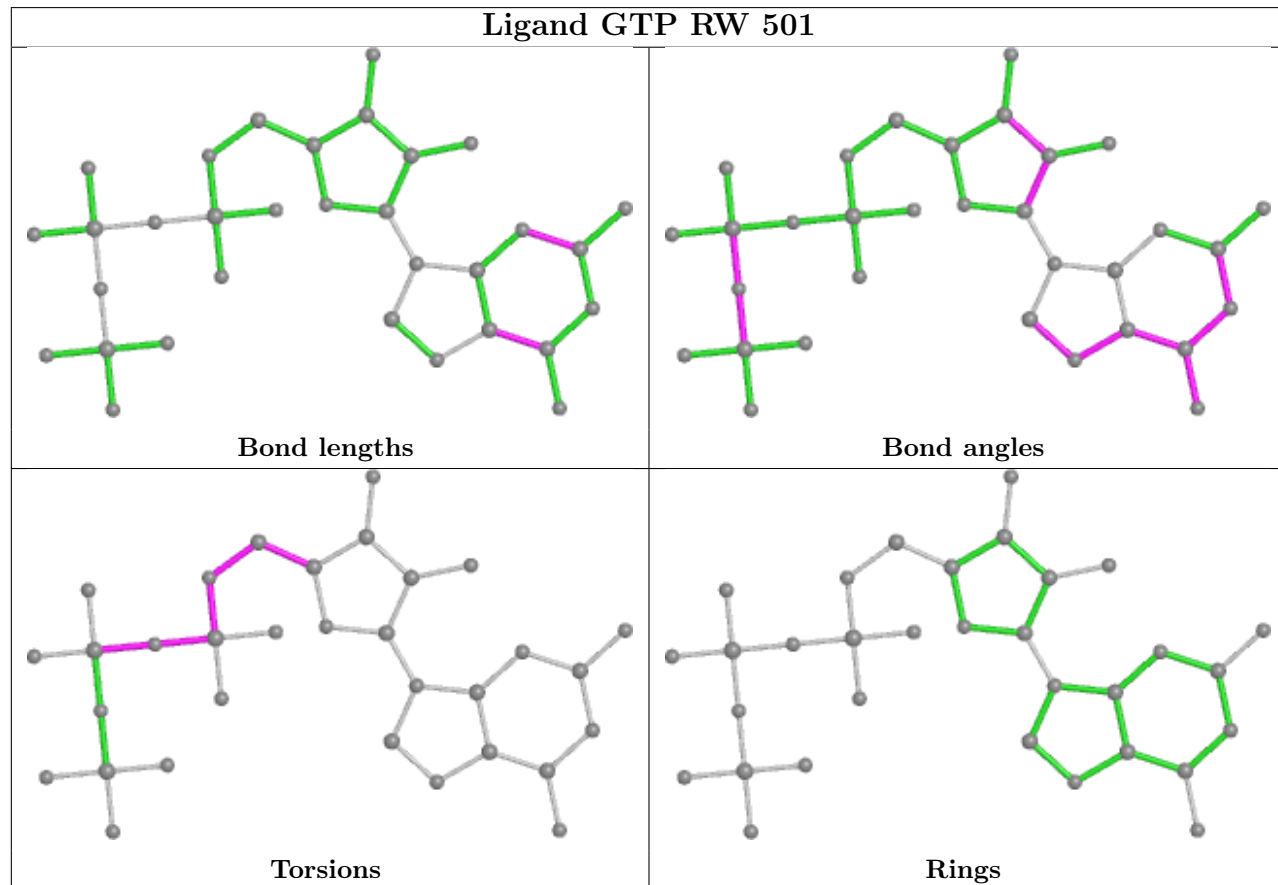
Ligand GTP US 501

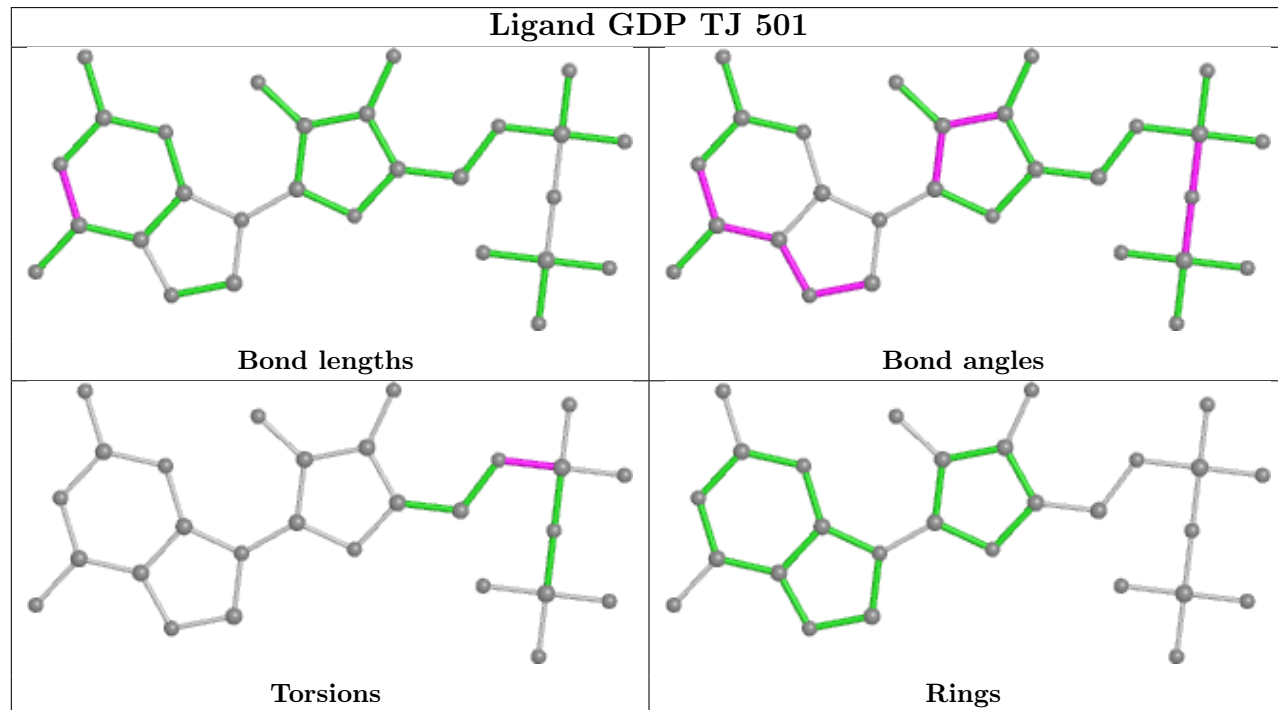
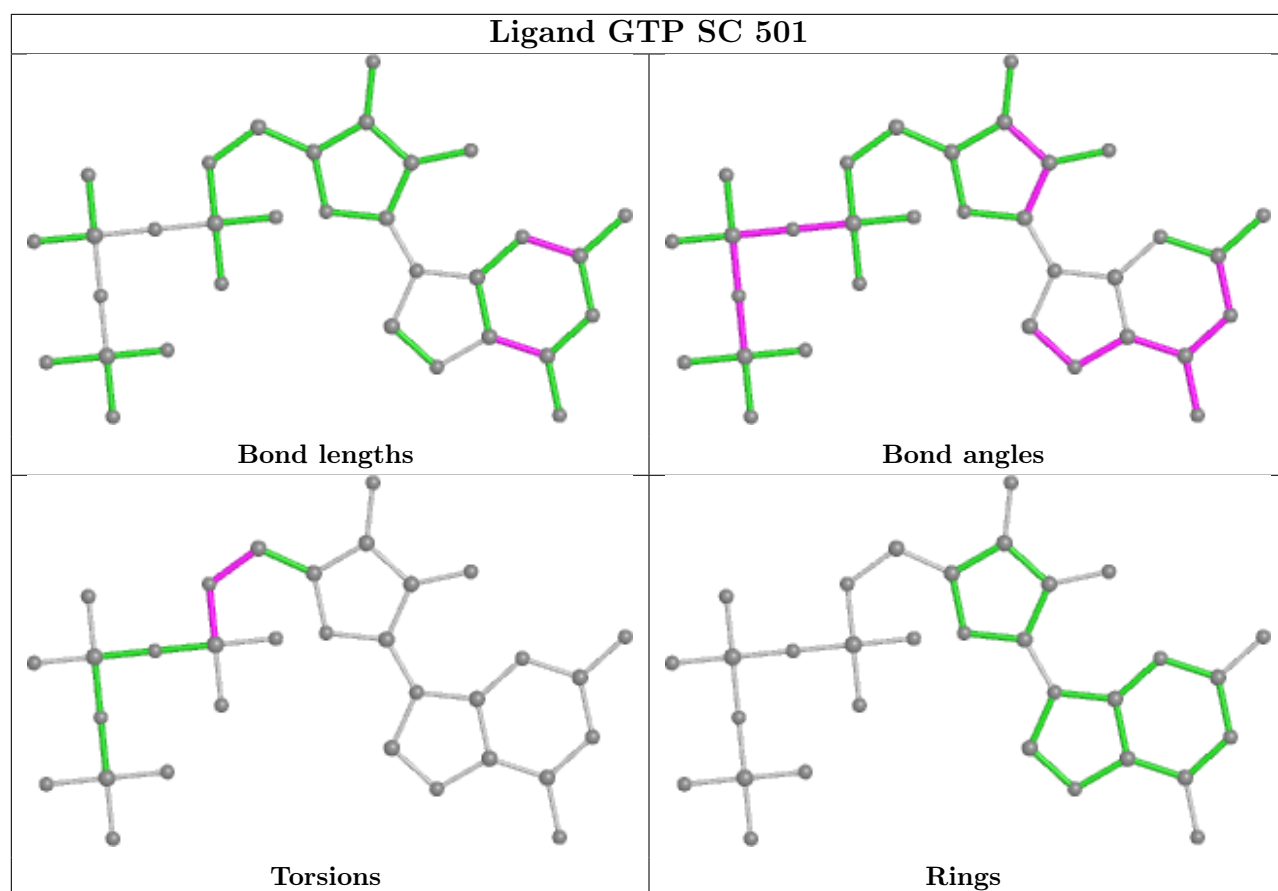


Ligand GTP HW 501

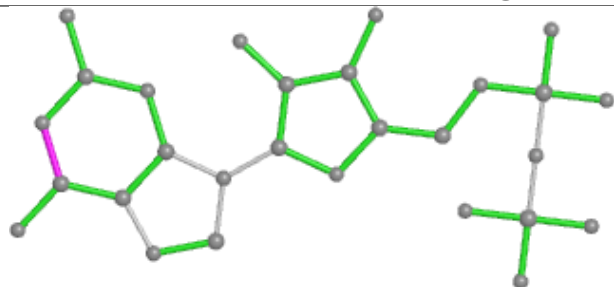


Ligand GTP RW 501

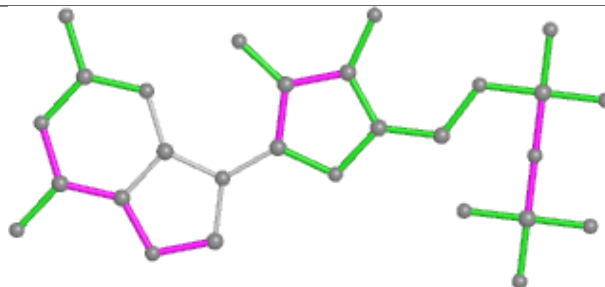




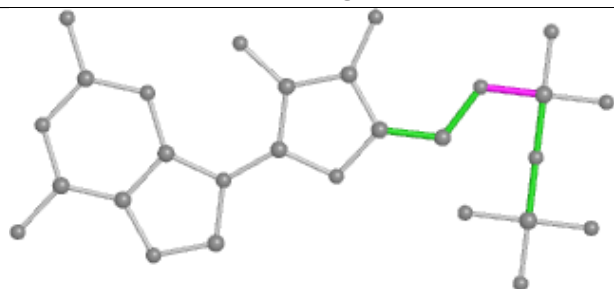
Ligand GDP DD 501



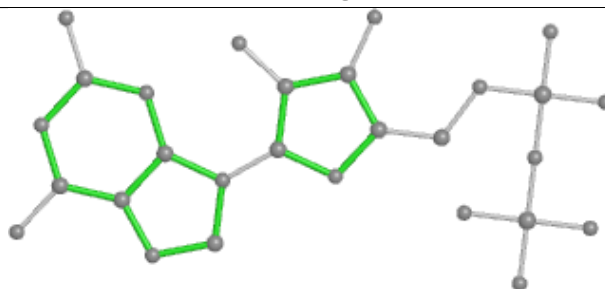
Bond lengths



Bond angles

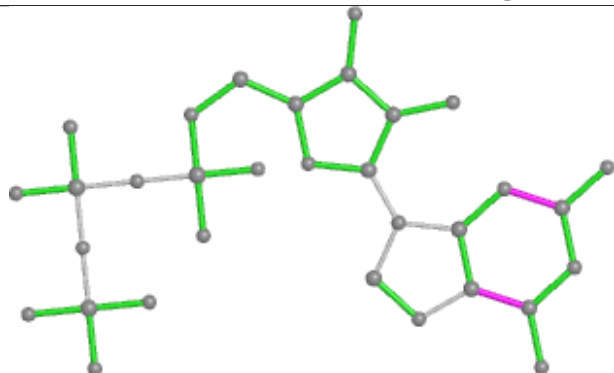


Torsions

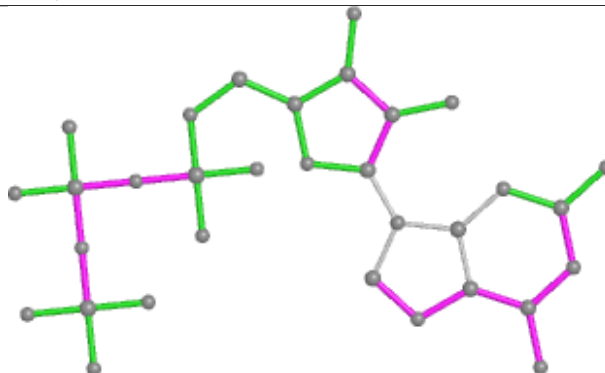


Rings

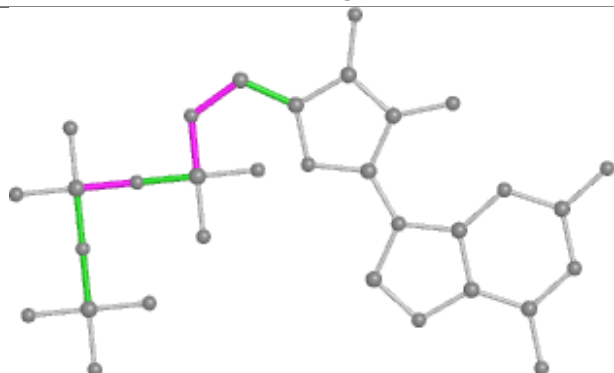
Ligand GTP QA 501



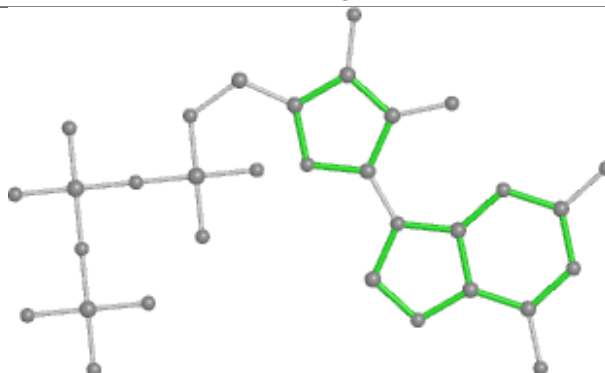
Bond lengths



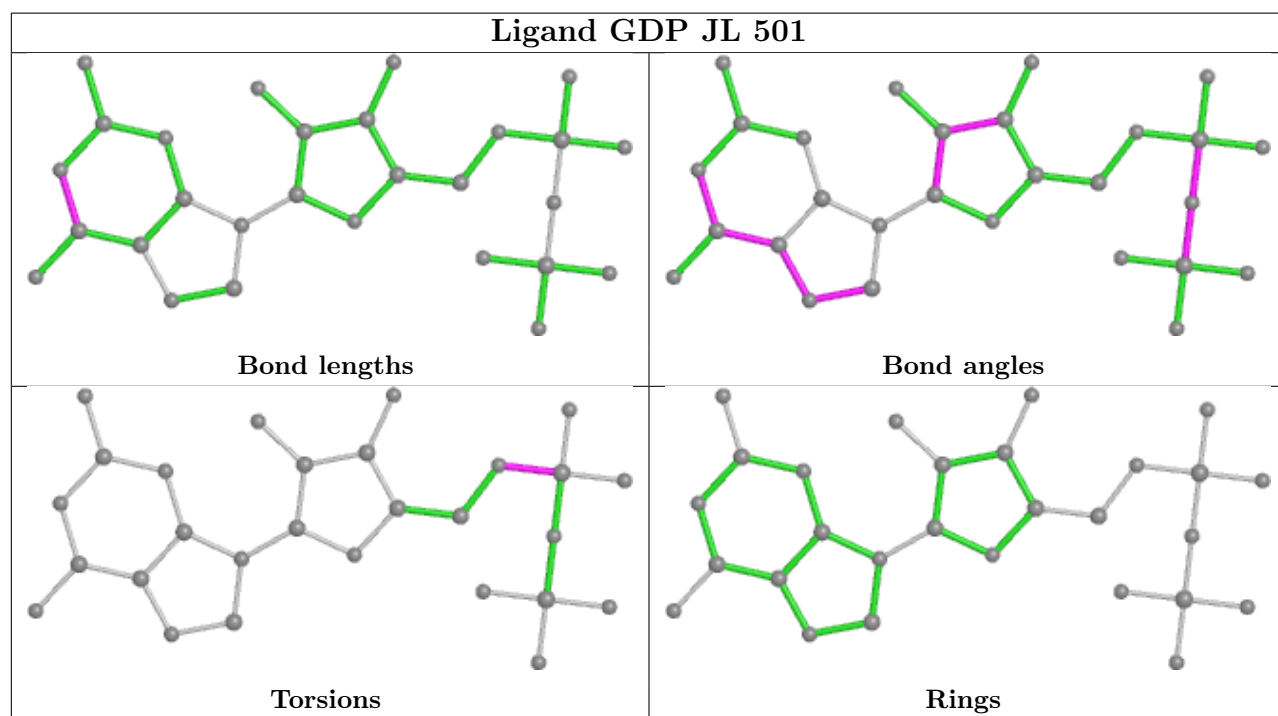
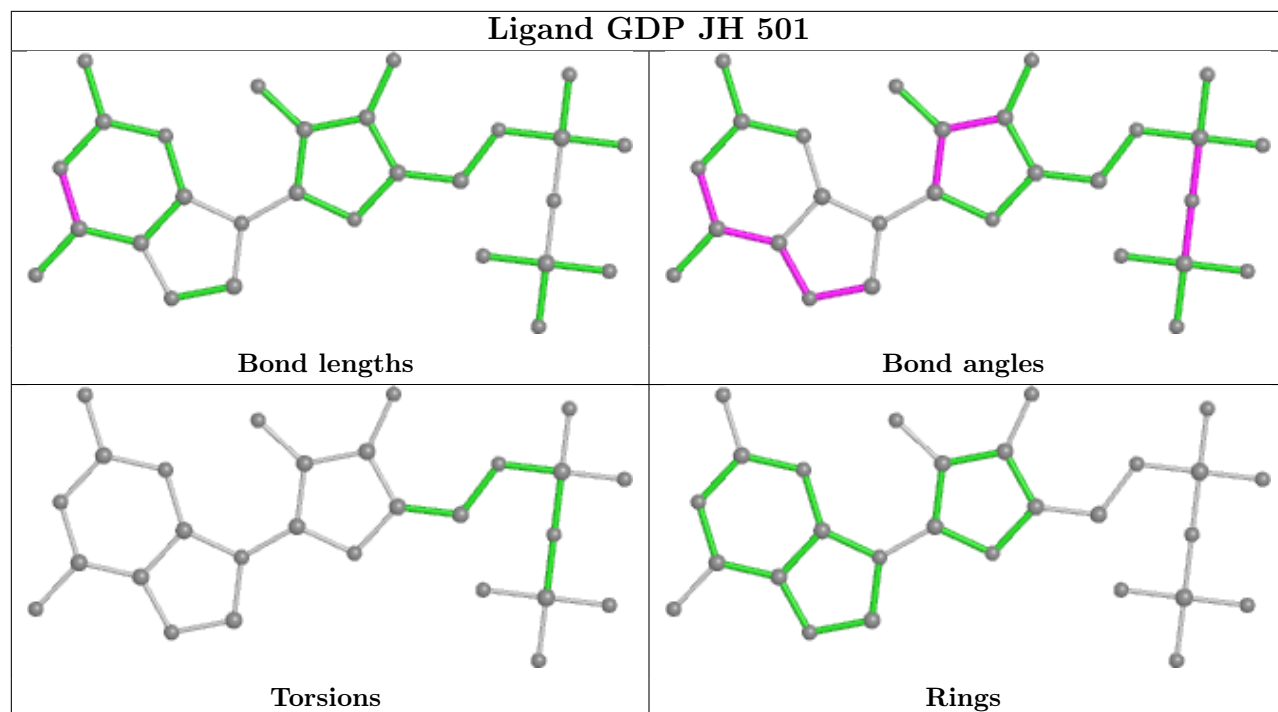
Bond angles



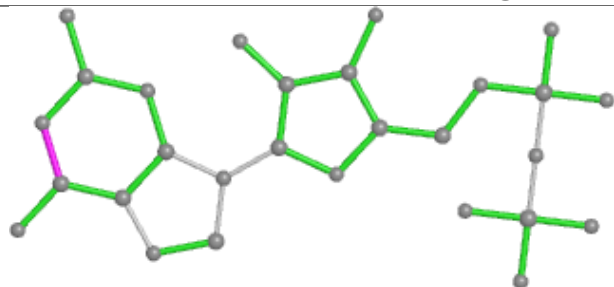
Torsions



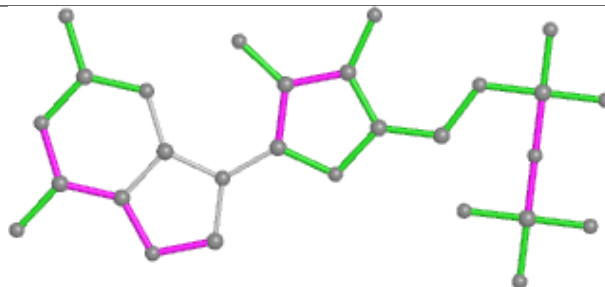
Rings



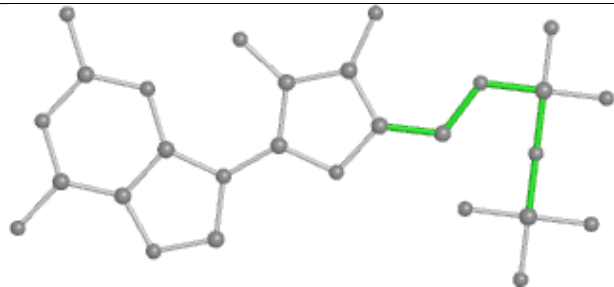
Ligand GDP UH 501



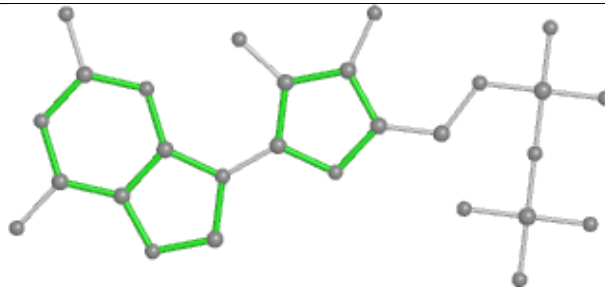
Bond lengths



Bond angles

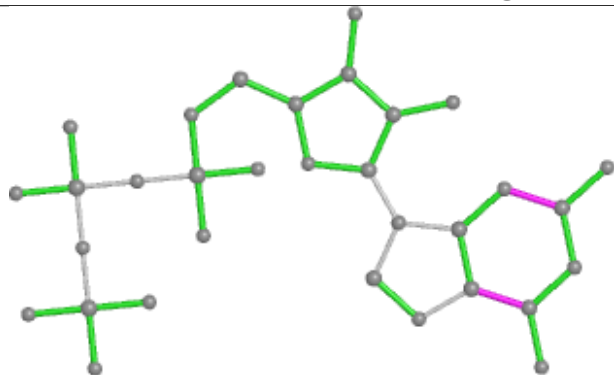


Torsions

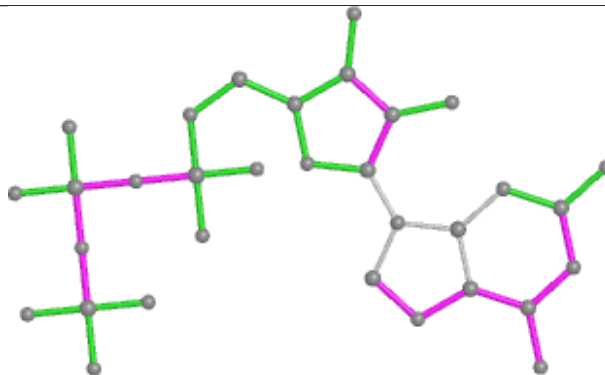


Rings

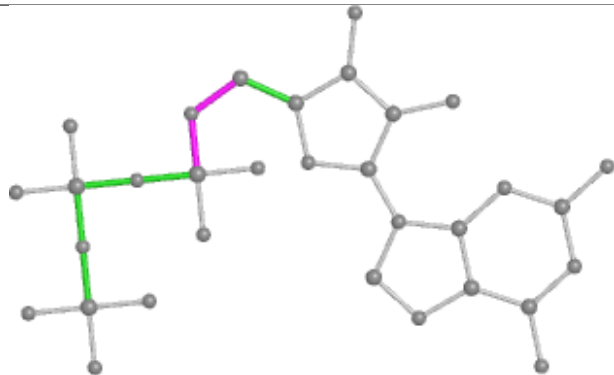
Ligand GTP LW 501



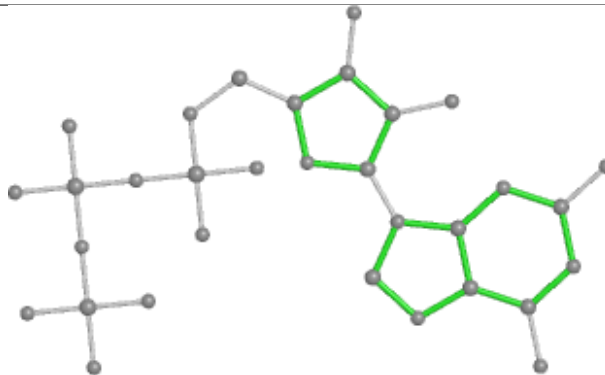
Bond lengths



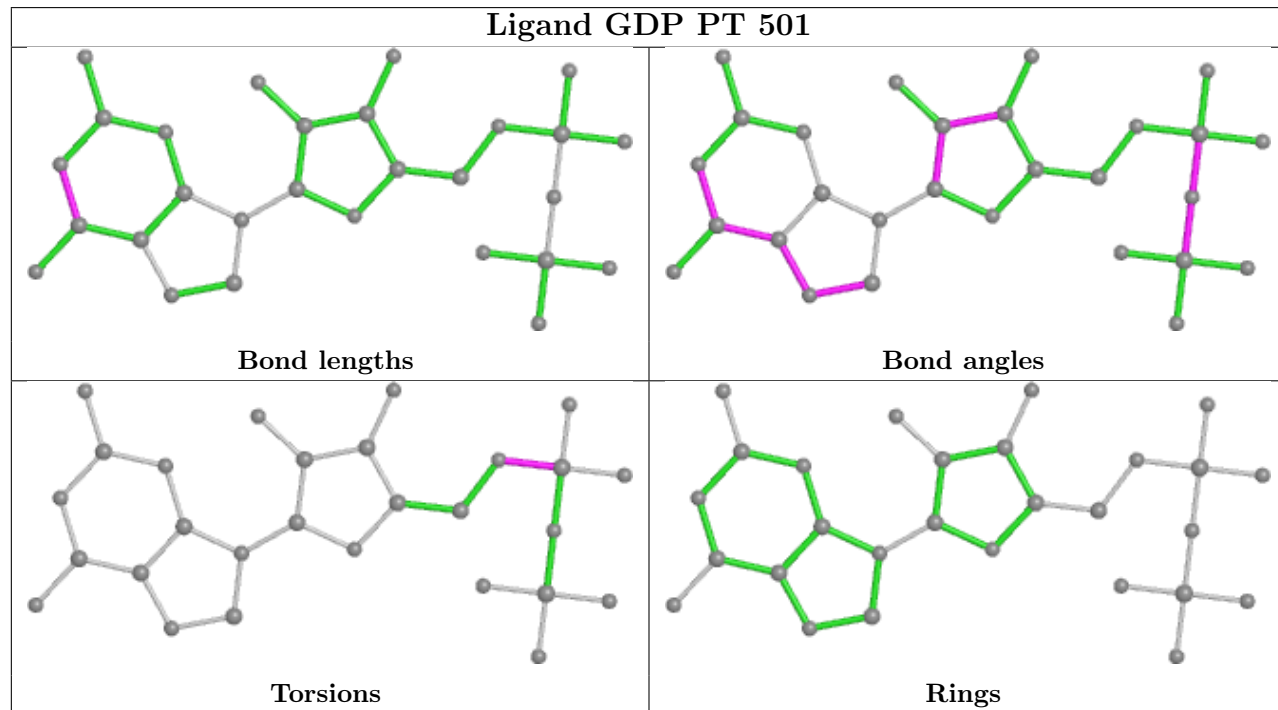
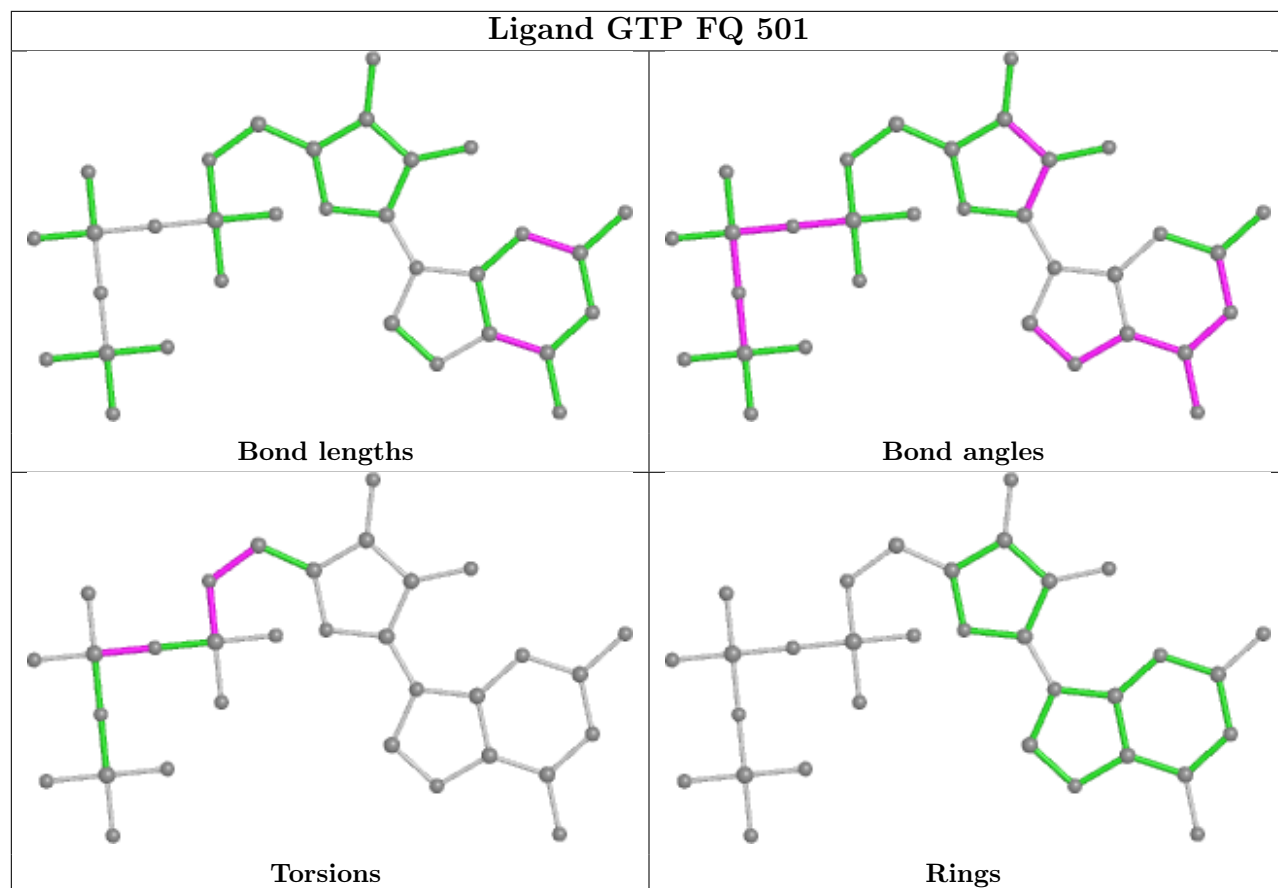
Bond angles



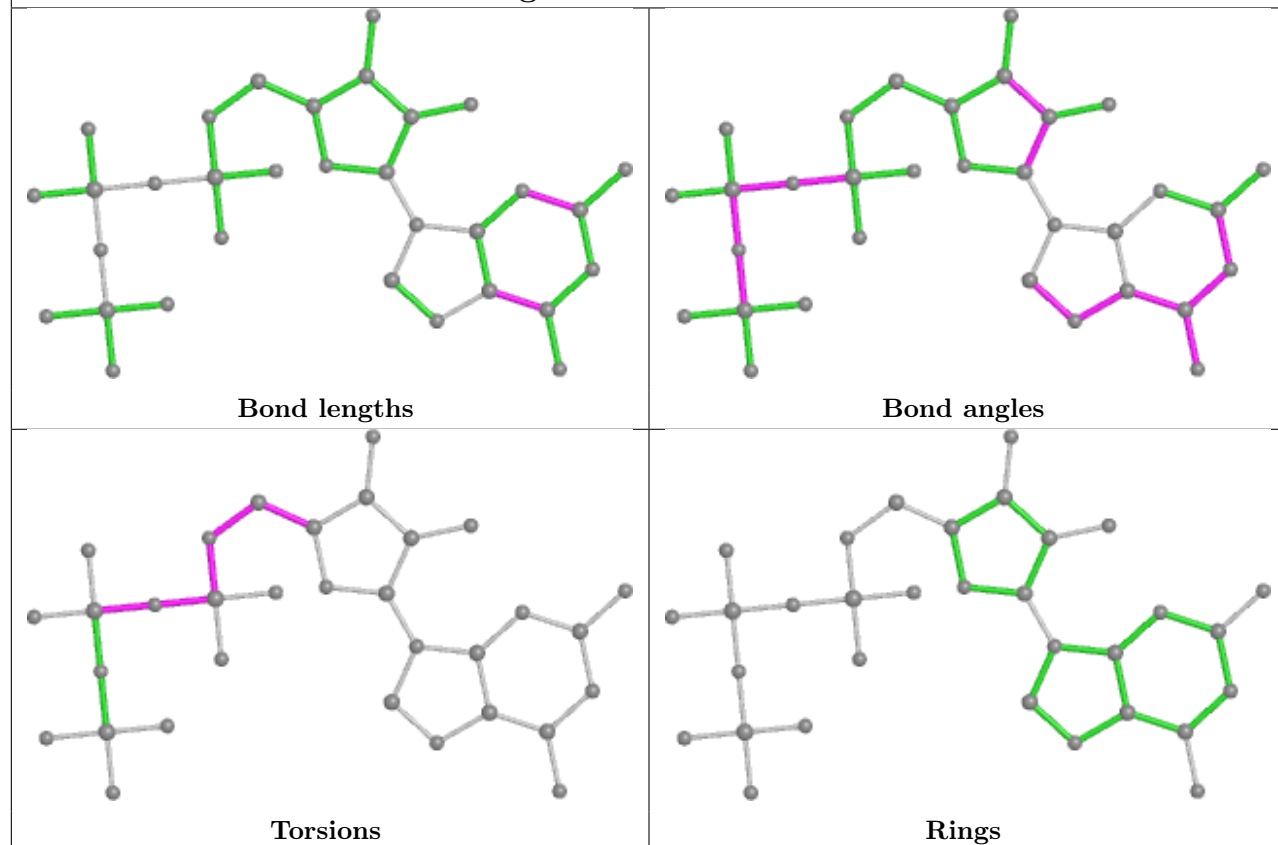
Torsions



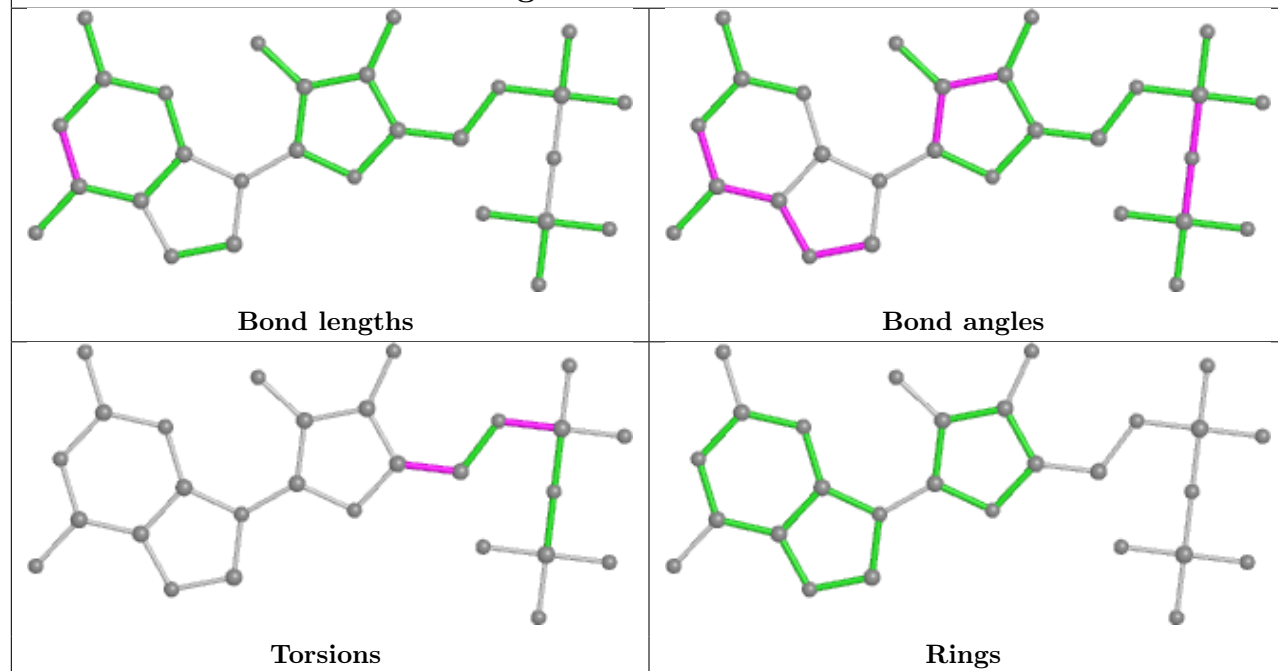
Rings

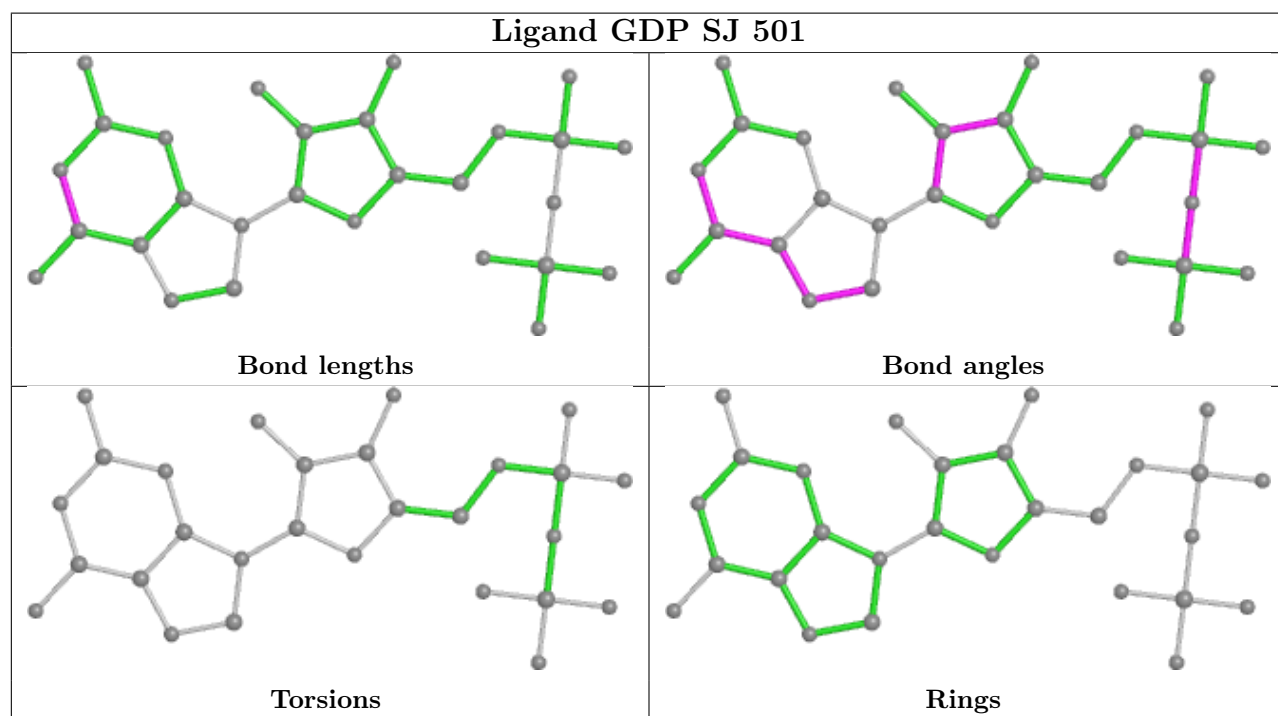
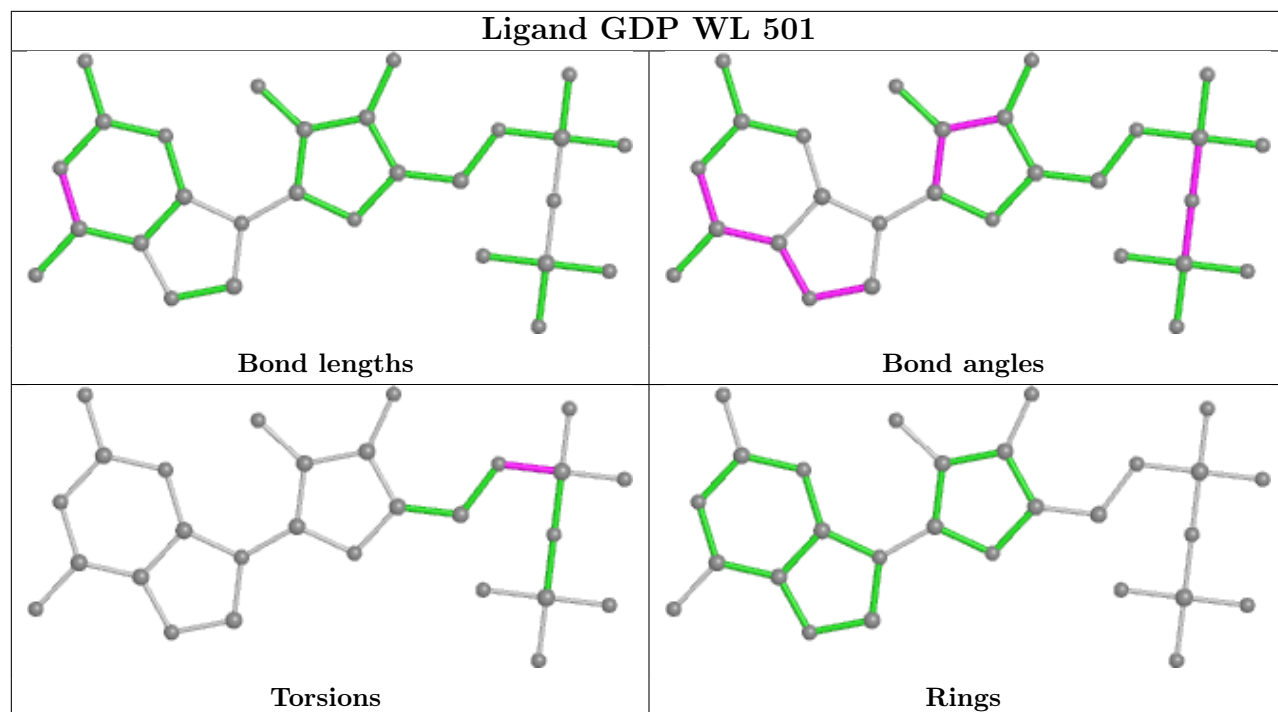


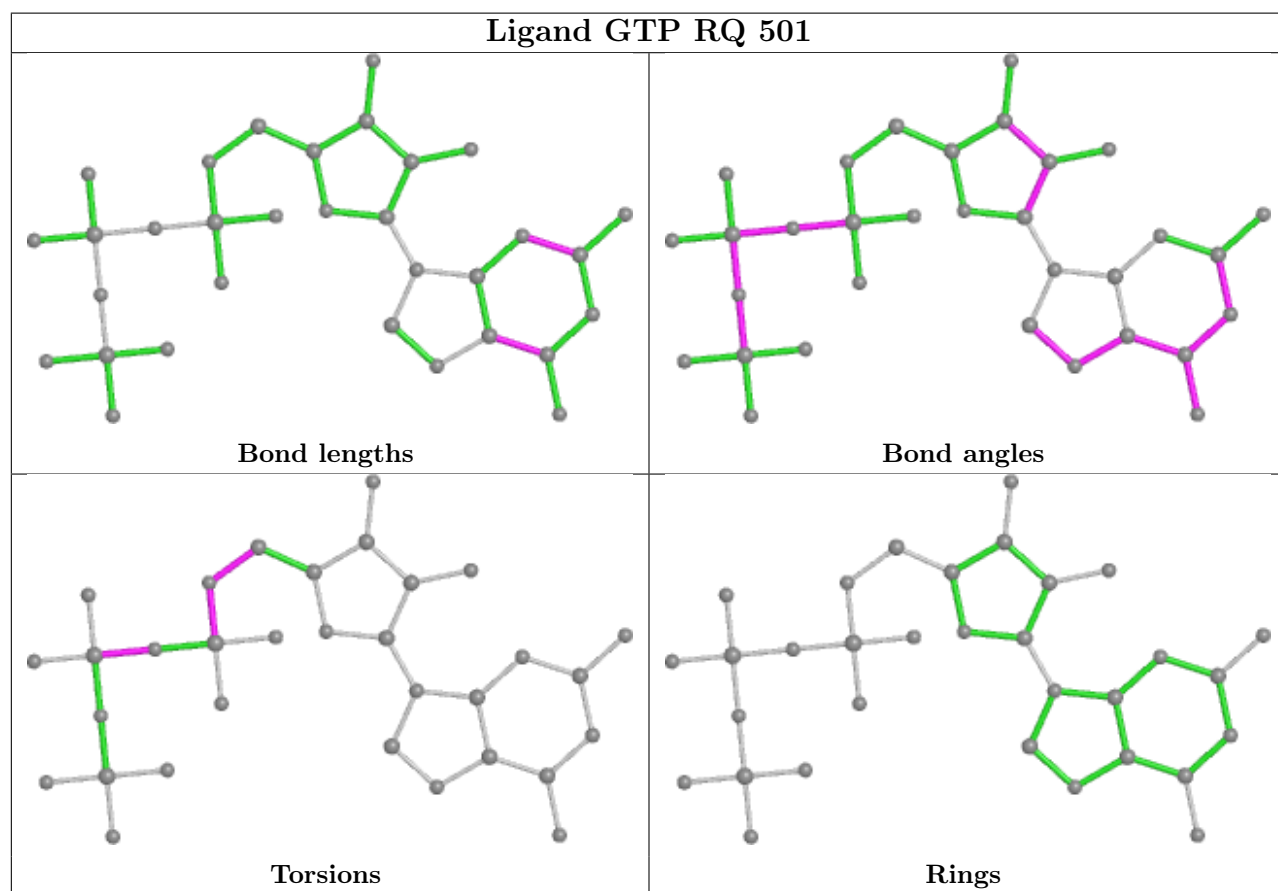
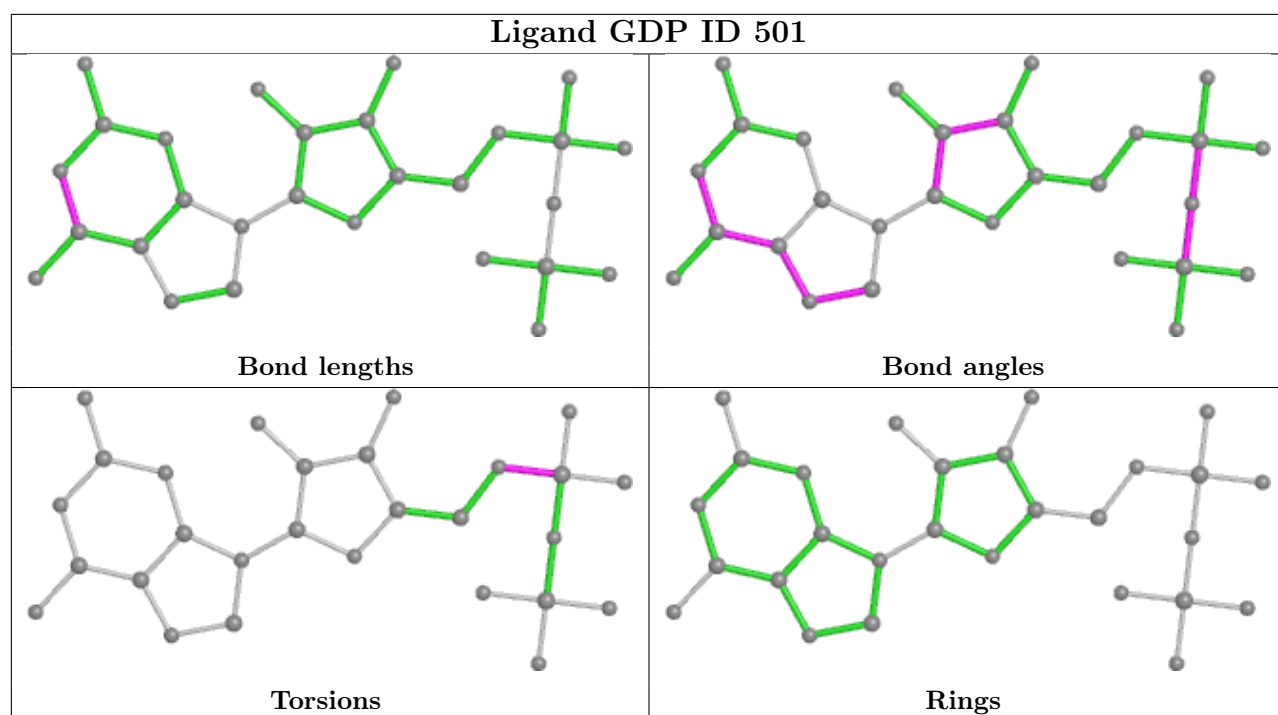
Ligand GTP PA 501

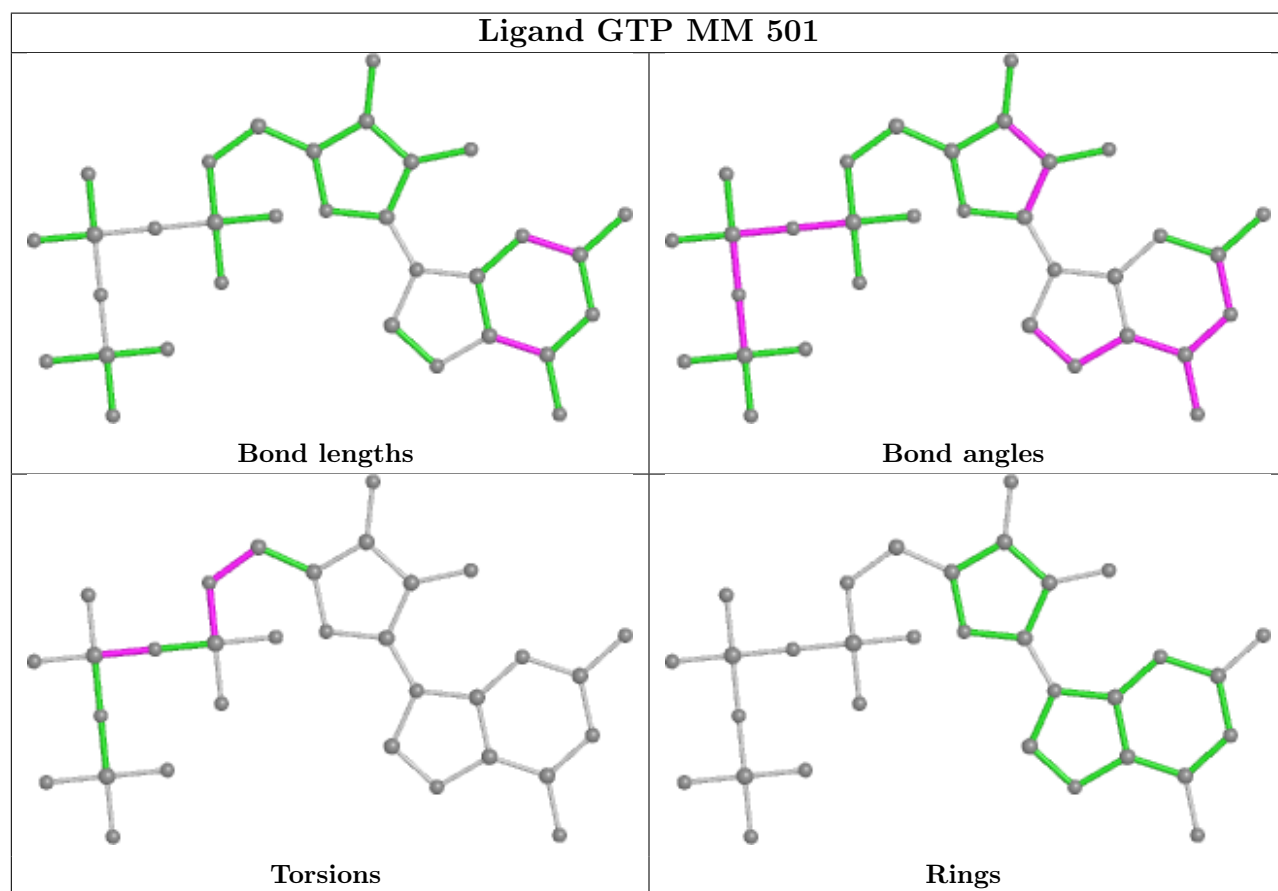
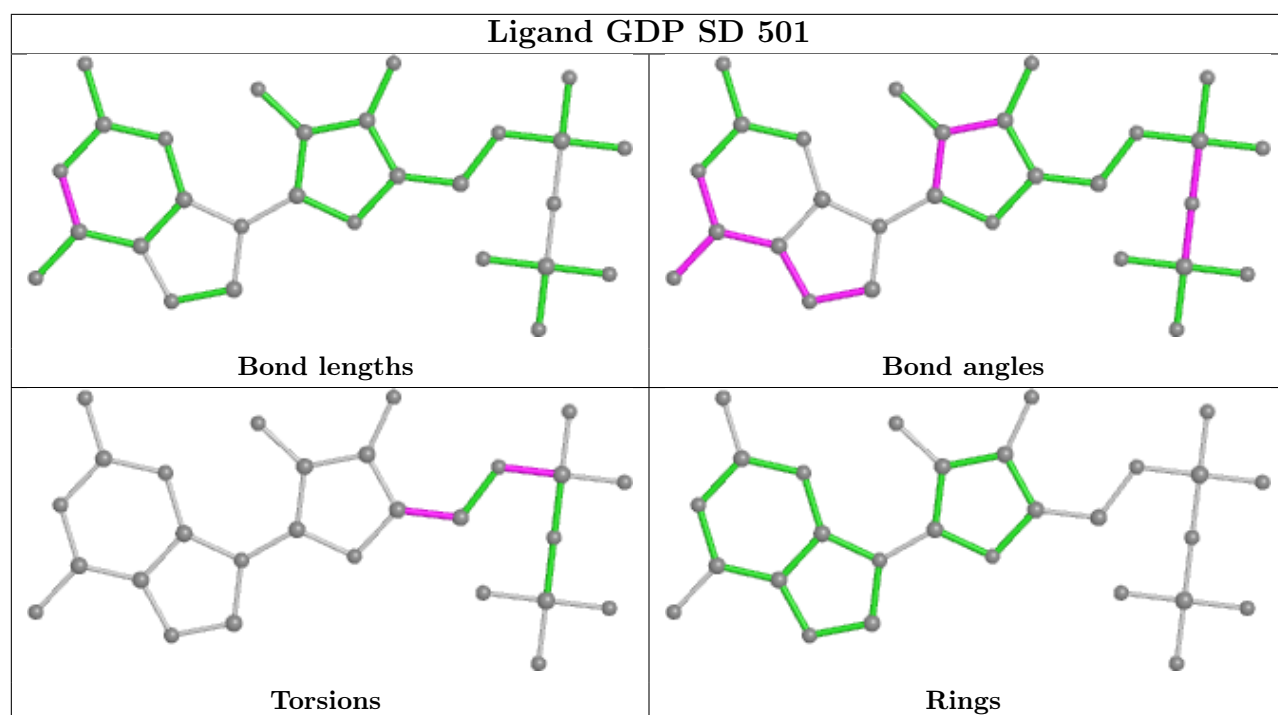


Ligand GDP TT 501

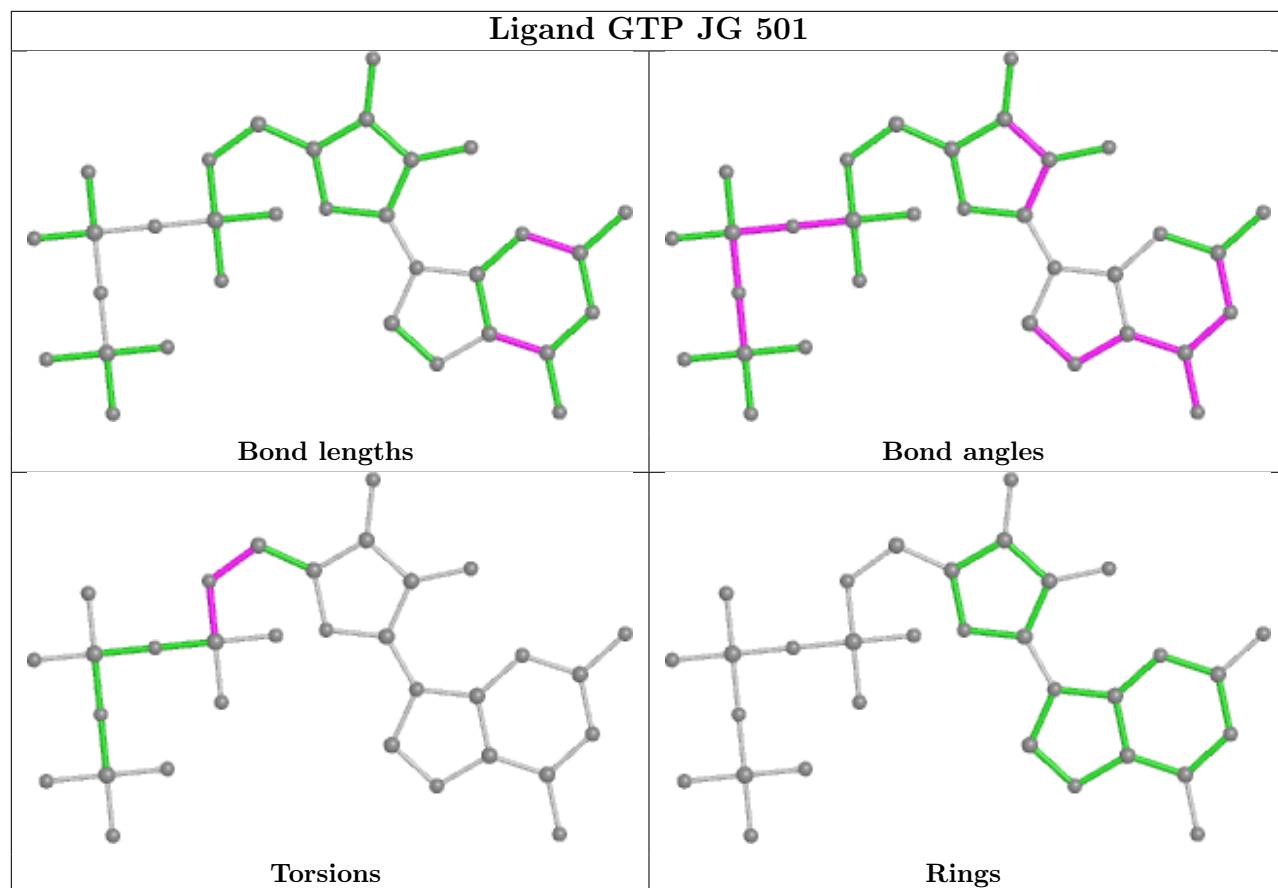




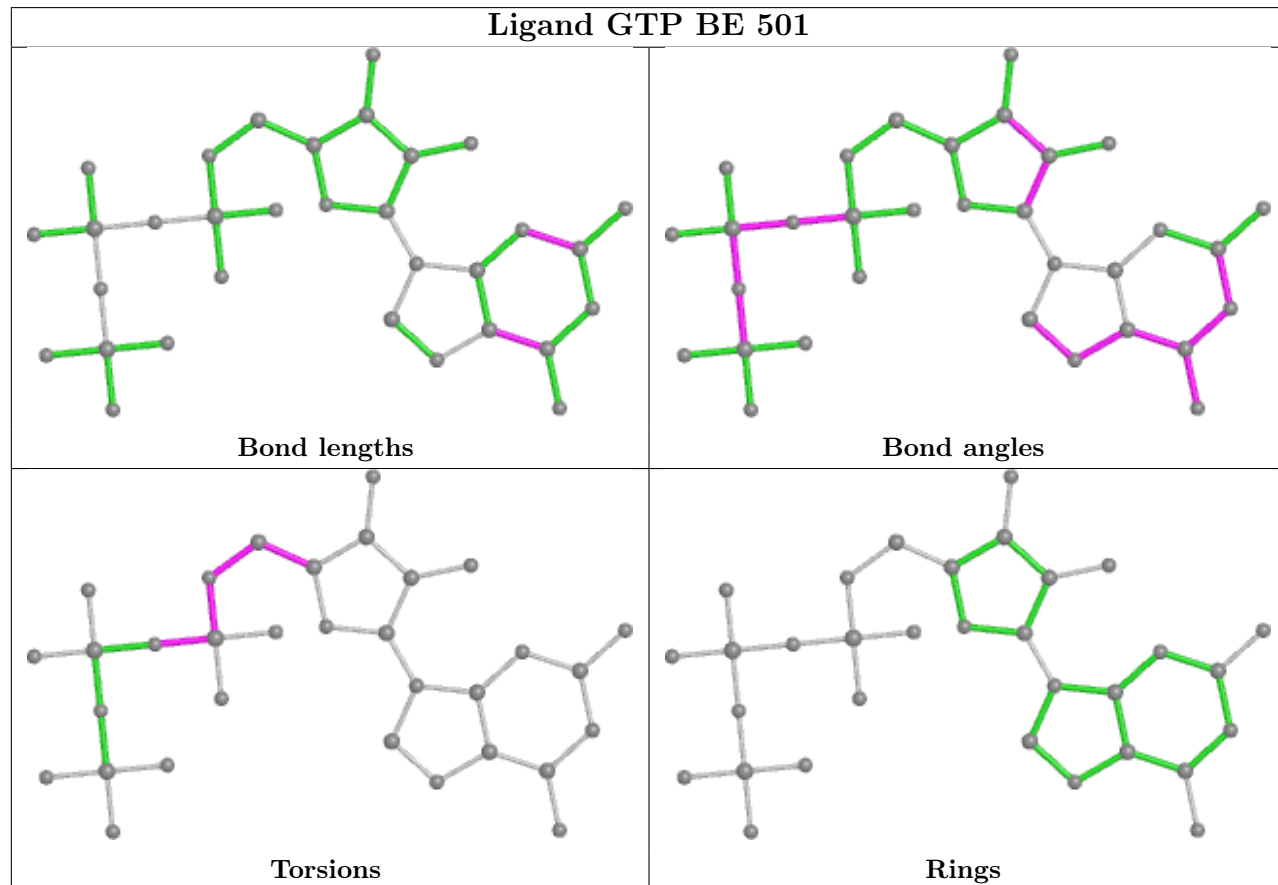


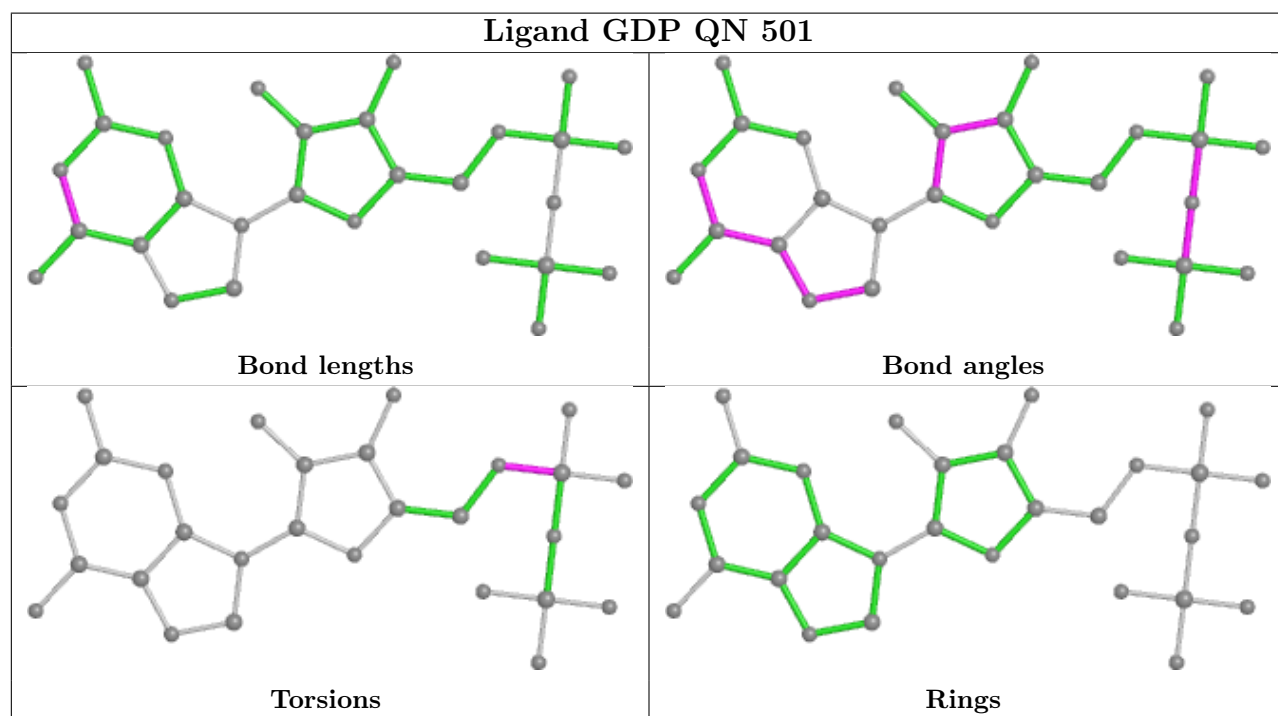
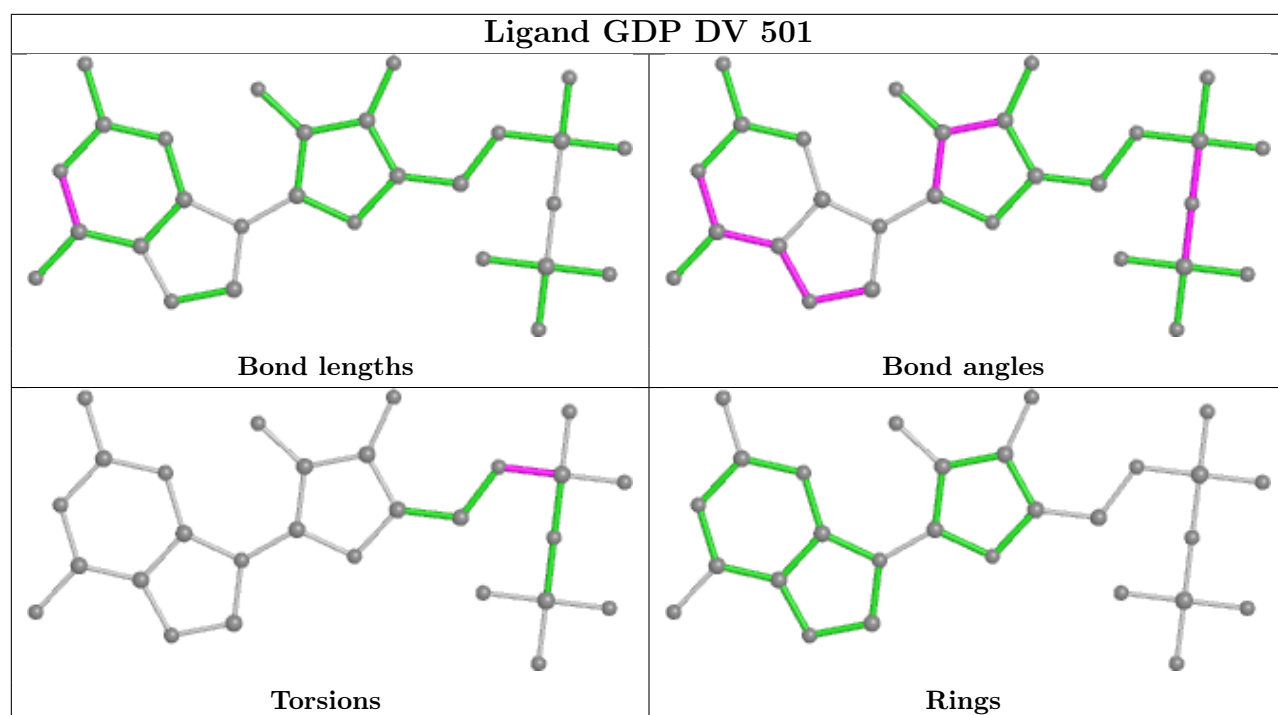


Ligand GTP JG 501

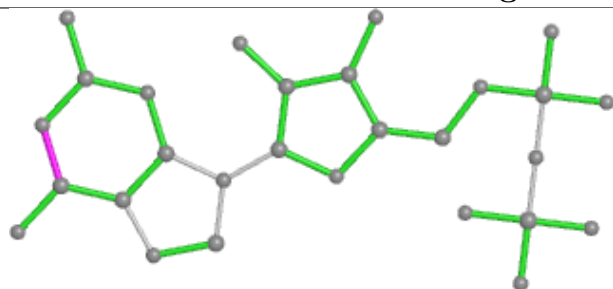


Ligand GTP BE 501

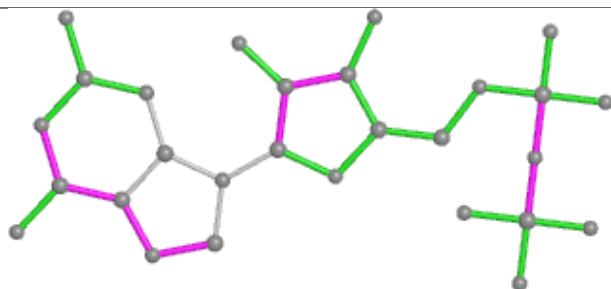




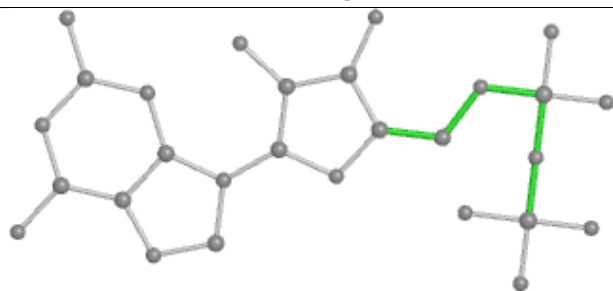
Ligand GDP RF 501



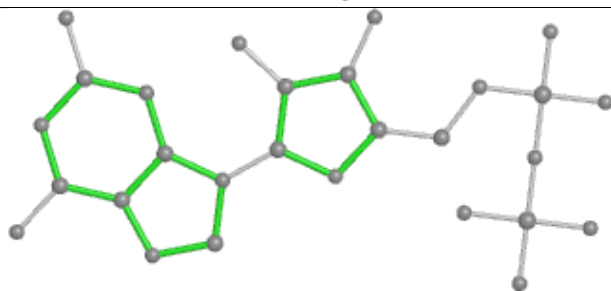
Bond lengths



Bond angles

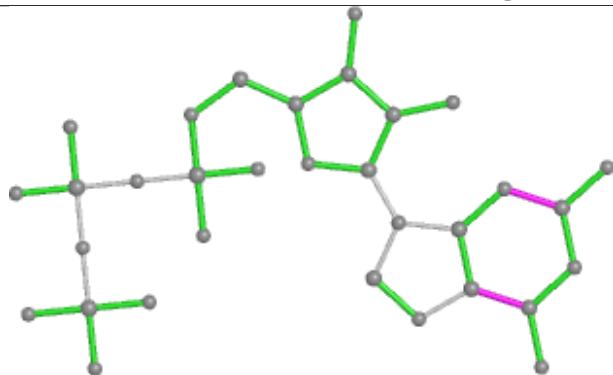


Torsions

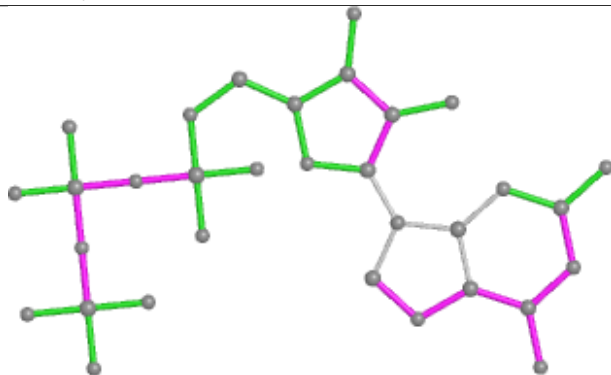


Rings

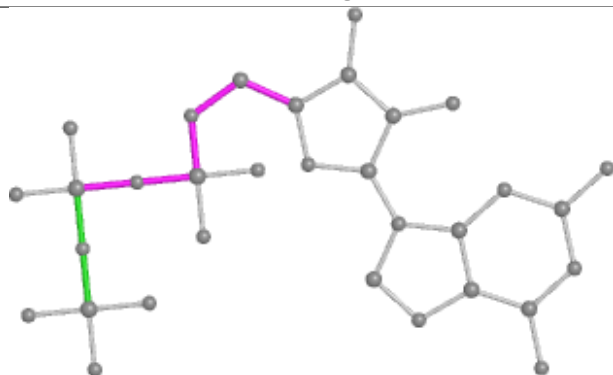
Ligand GTP VQ 501



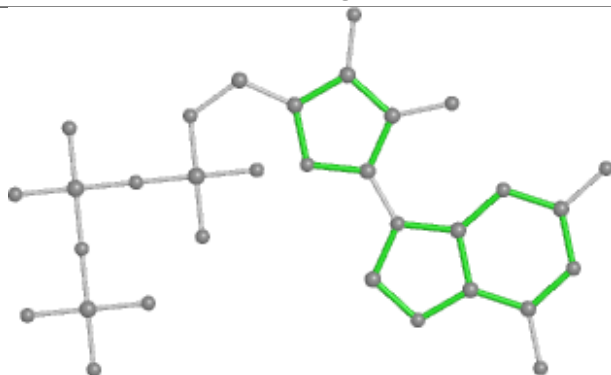
Bond lengths



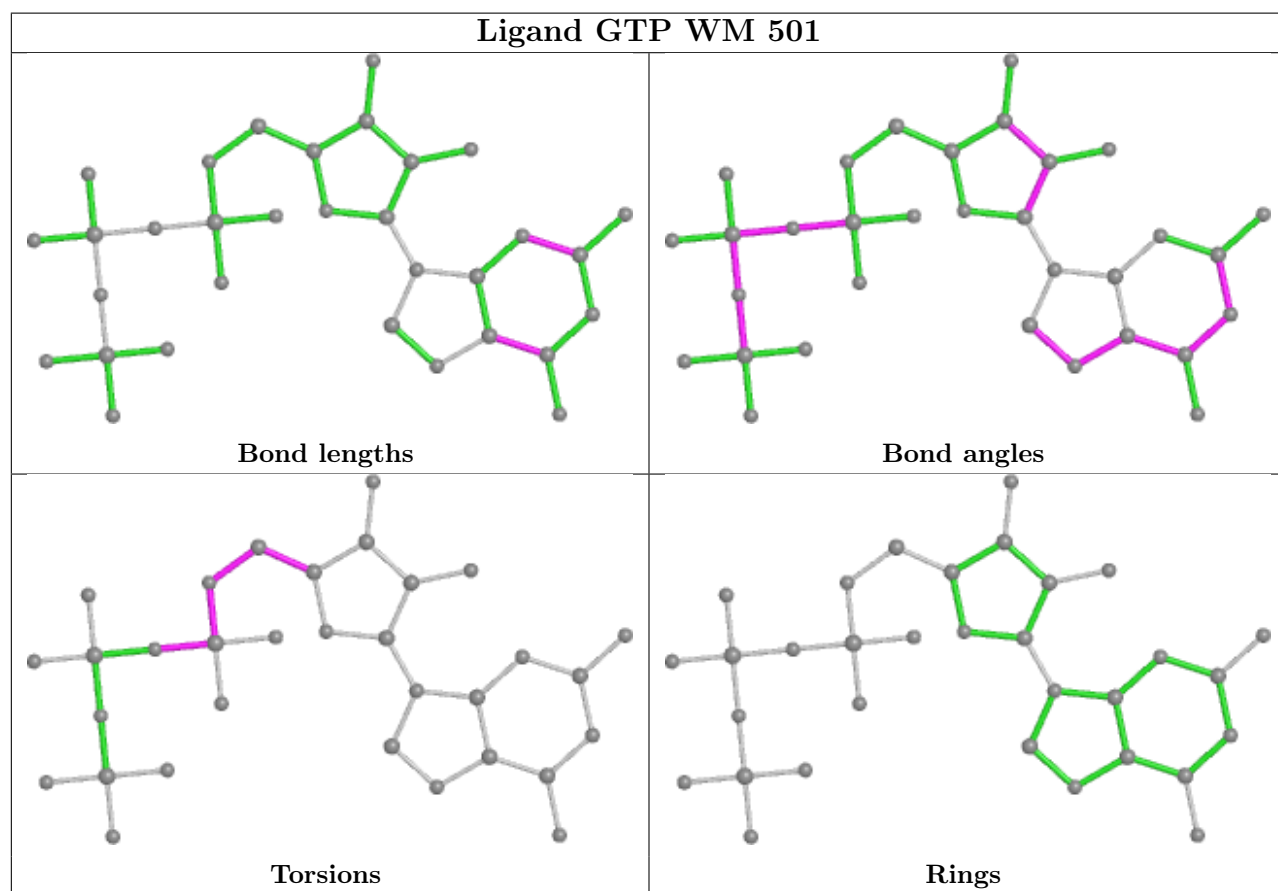
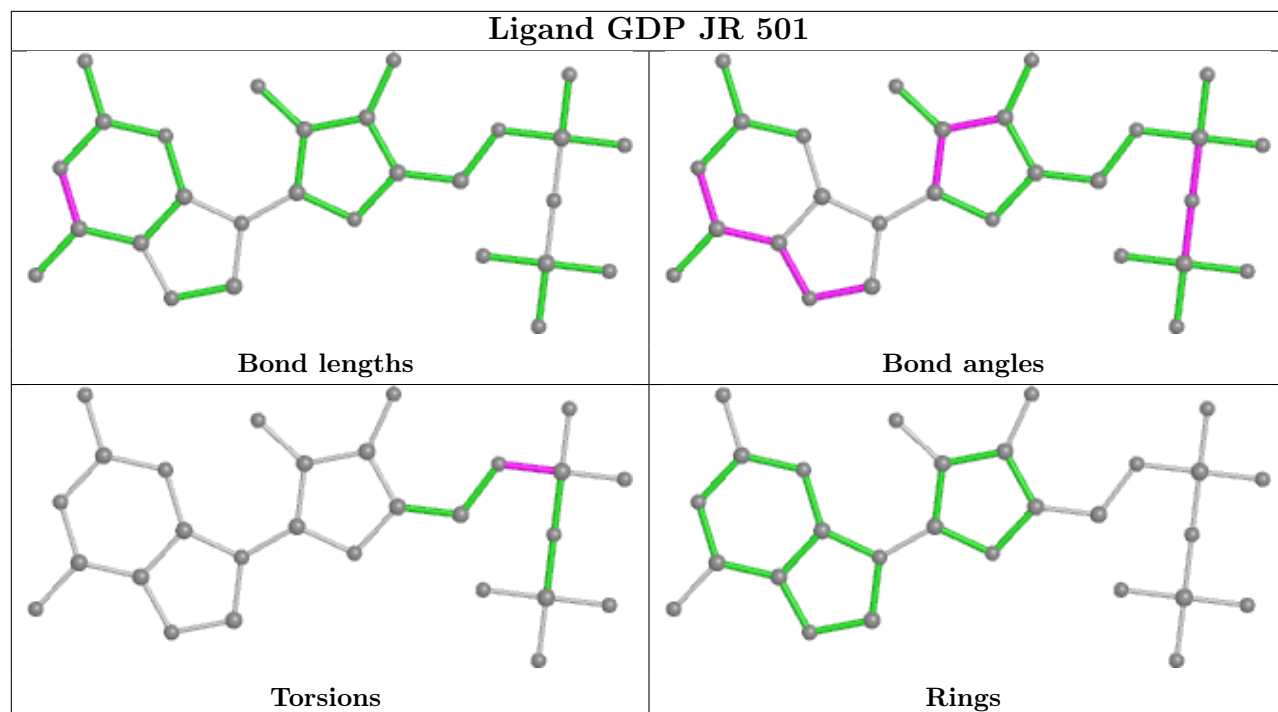
Bond angles



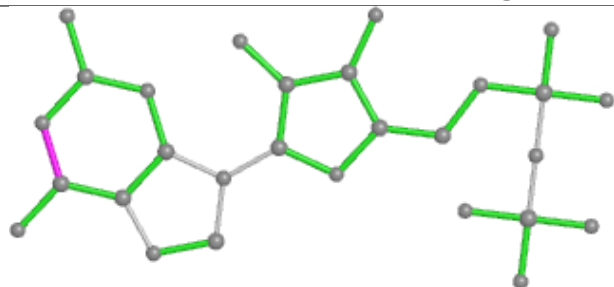
Torsions



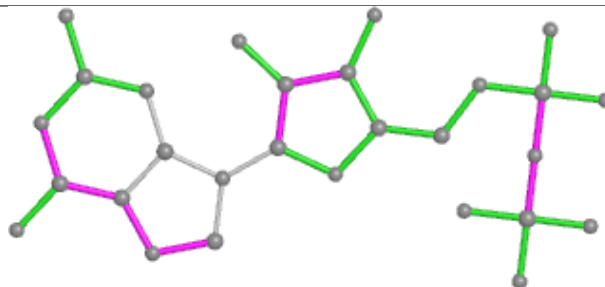
Rings



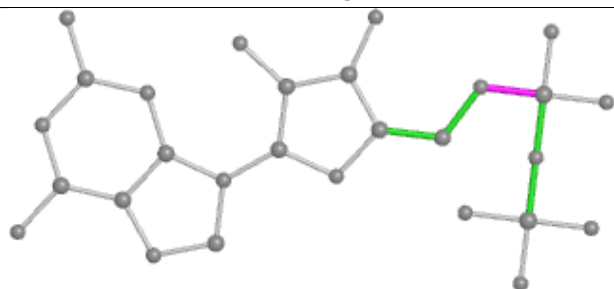
Ligand GDP NT 501



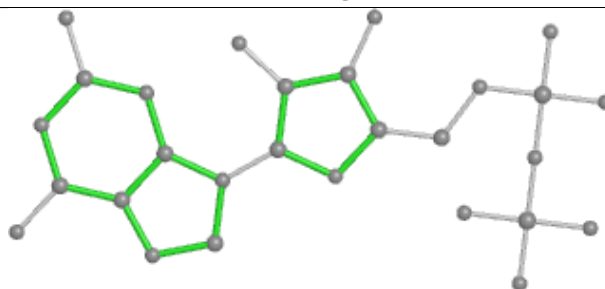
Bond lengths



Bond angles

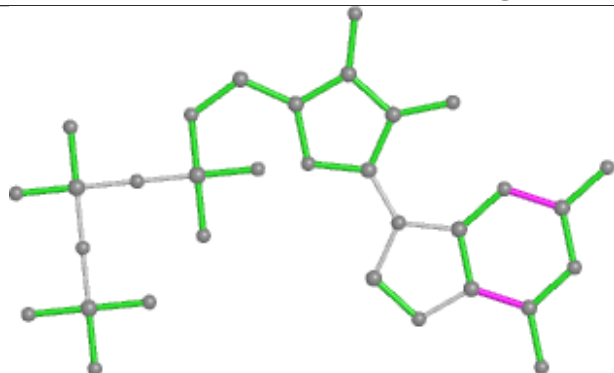


Torsions

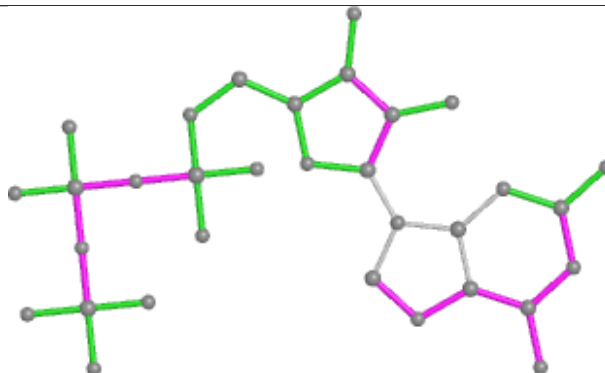


Rings

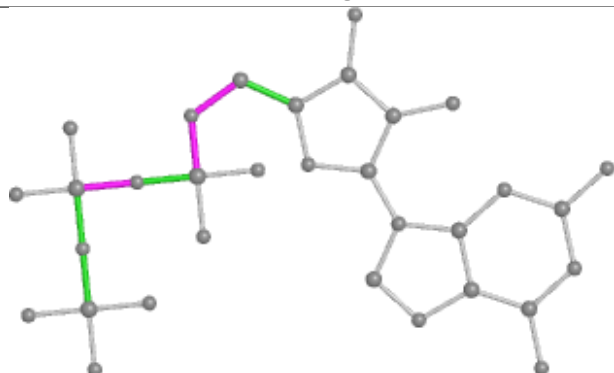
Ligand GTP TM 501



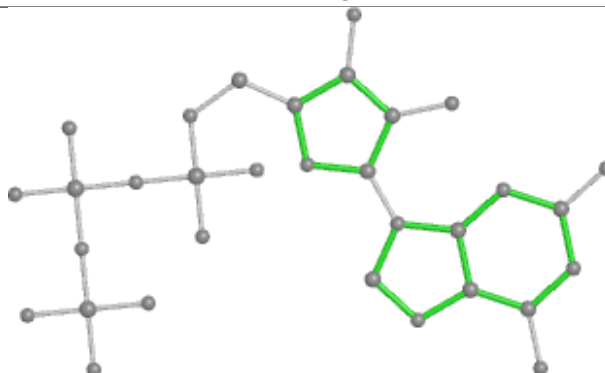
Bond lengths



Bond angles

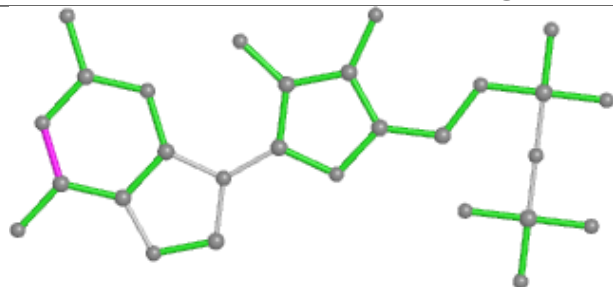


Torsions

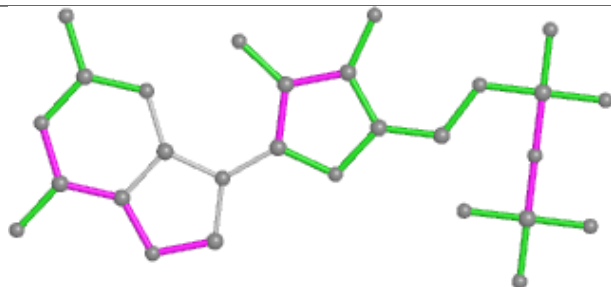


Rings

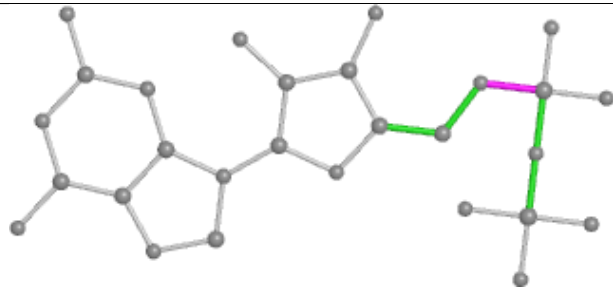
Ligand GDP CR 501



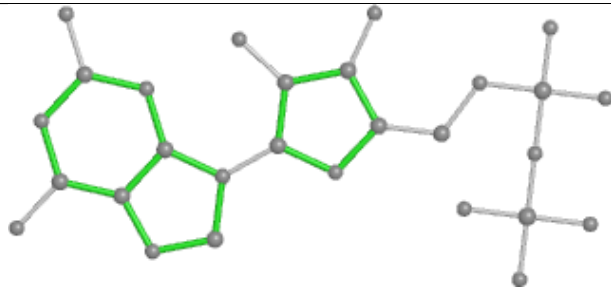
Bond lengths



Bond angles

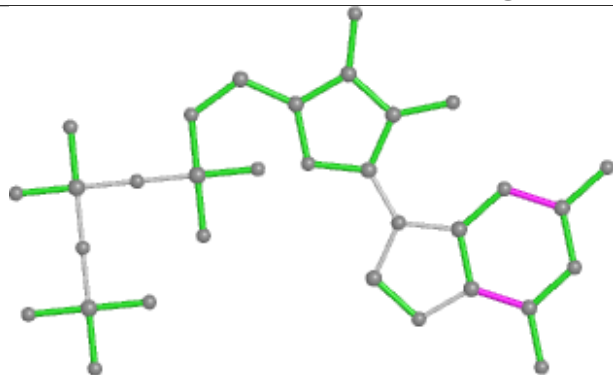


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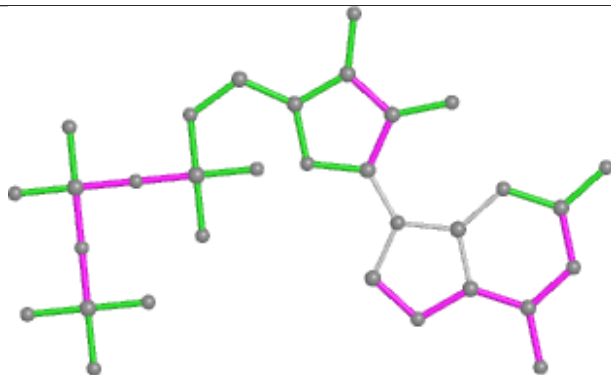


Rings

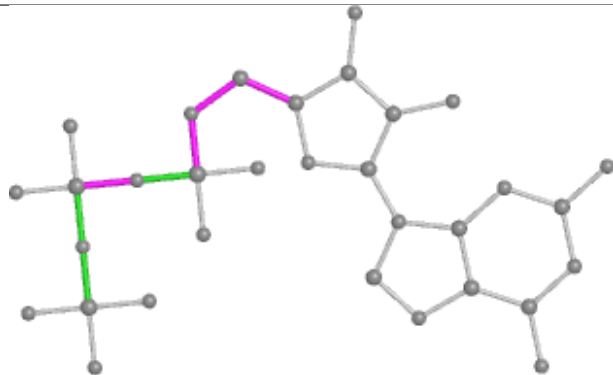
Ligand GTP OC 501



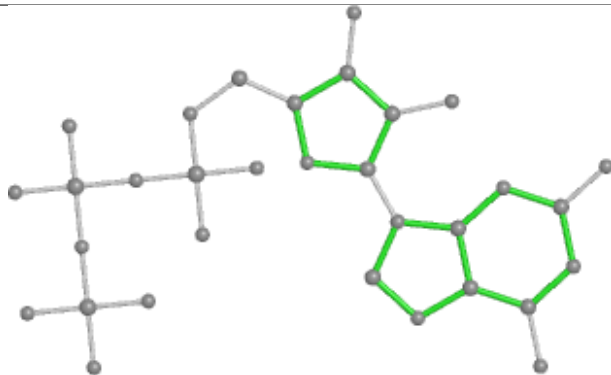
Bond lengths



Bond angles

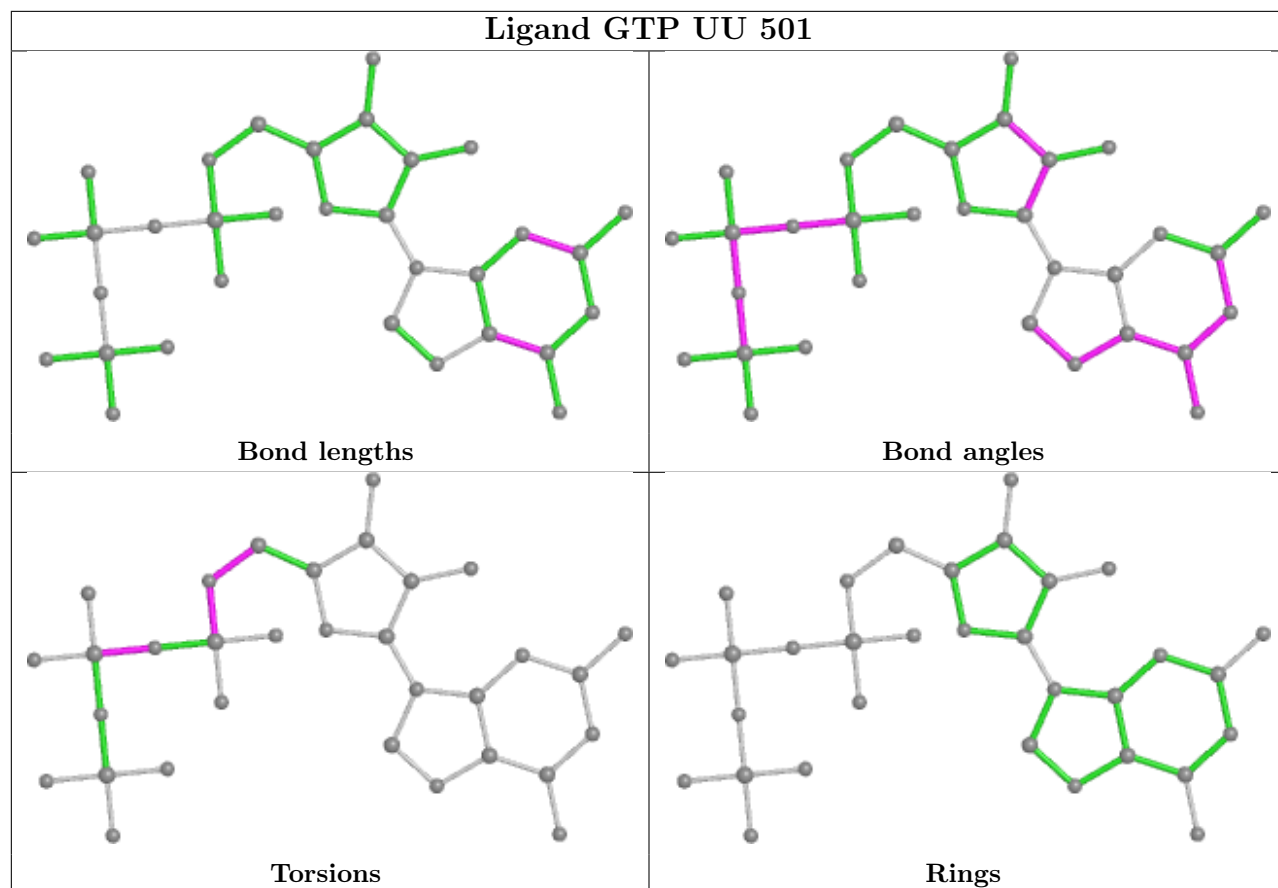


Torsions

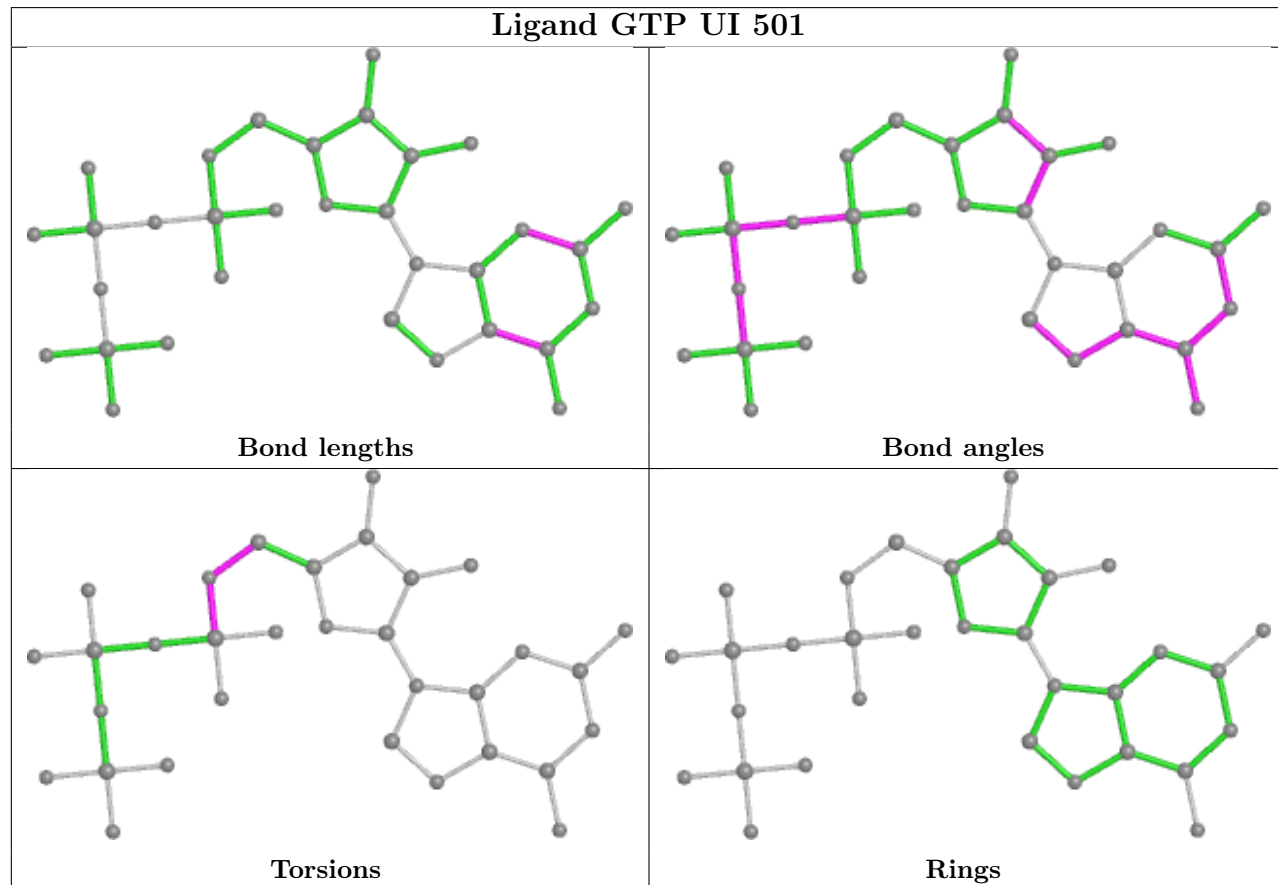


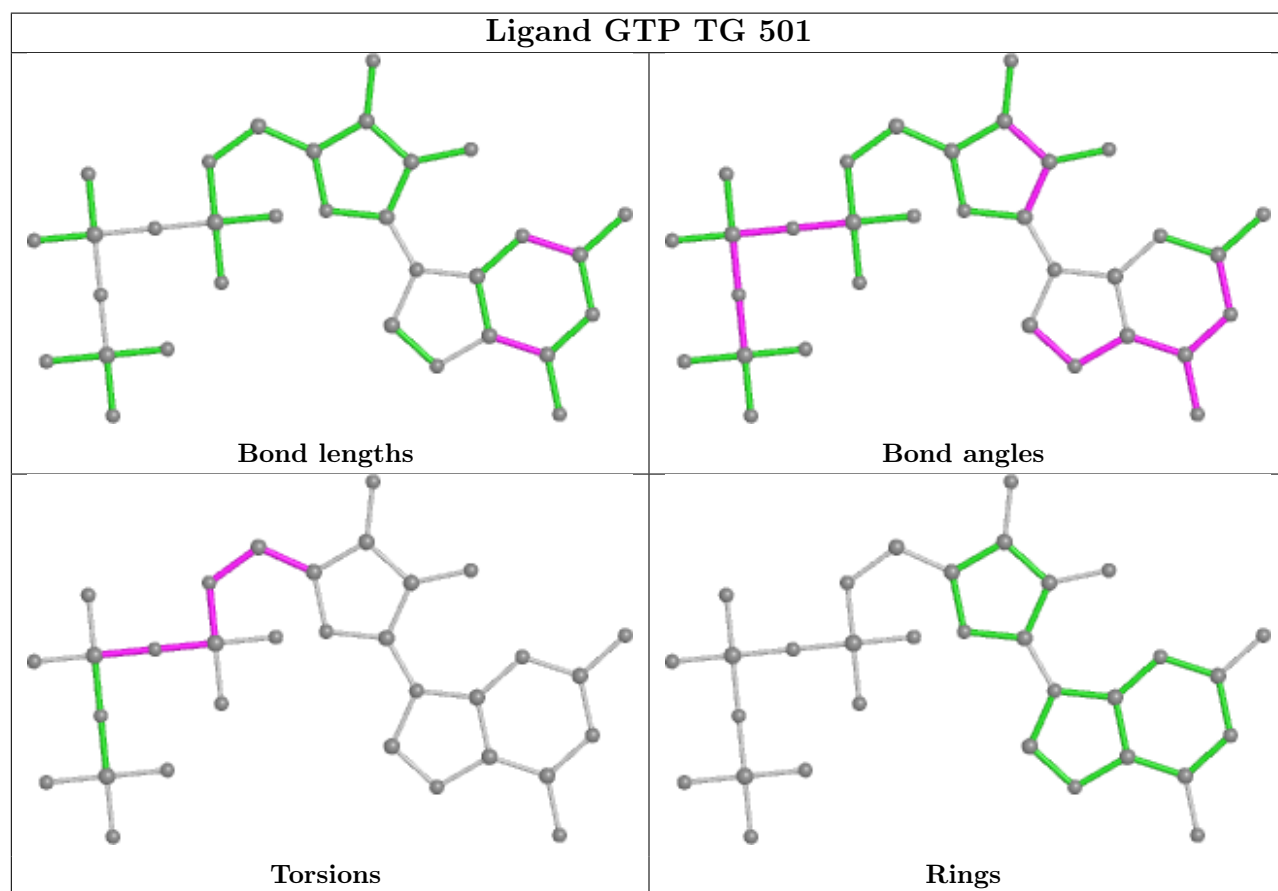
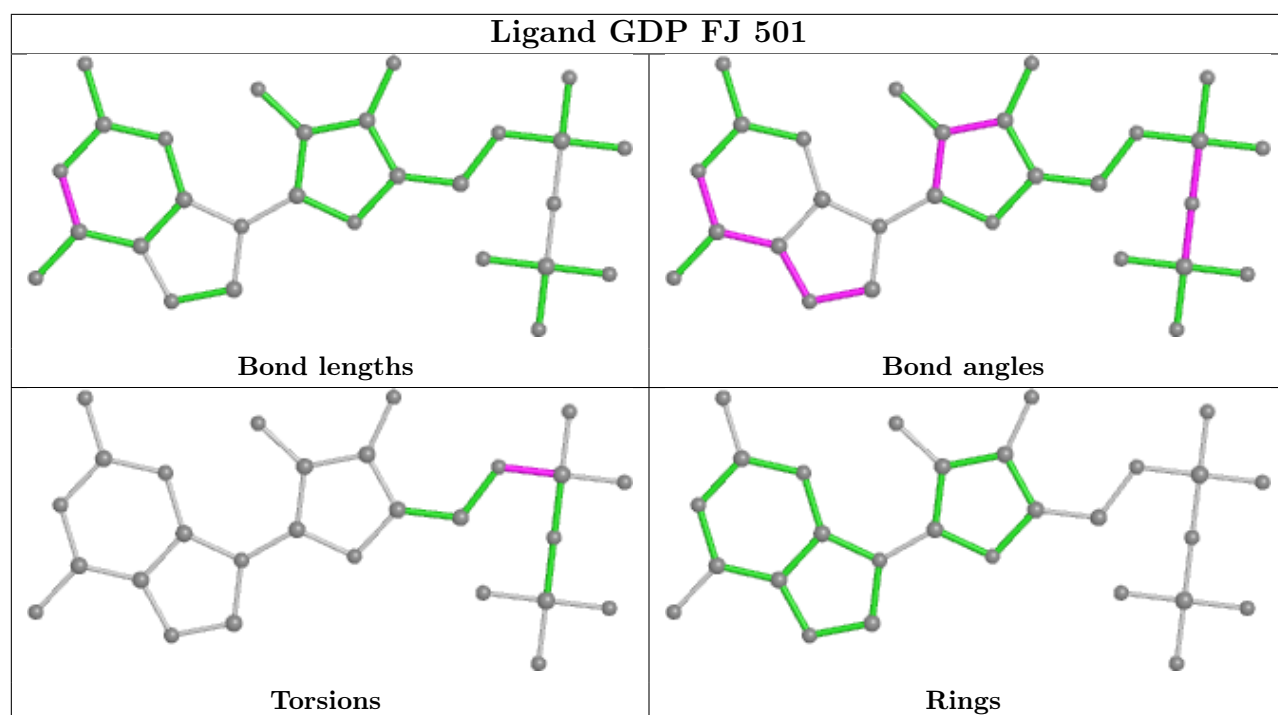
Rings

Ligand GTP UU 501

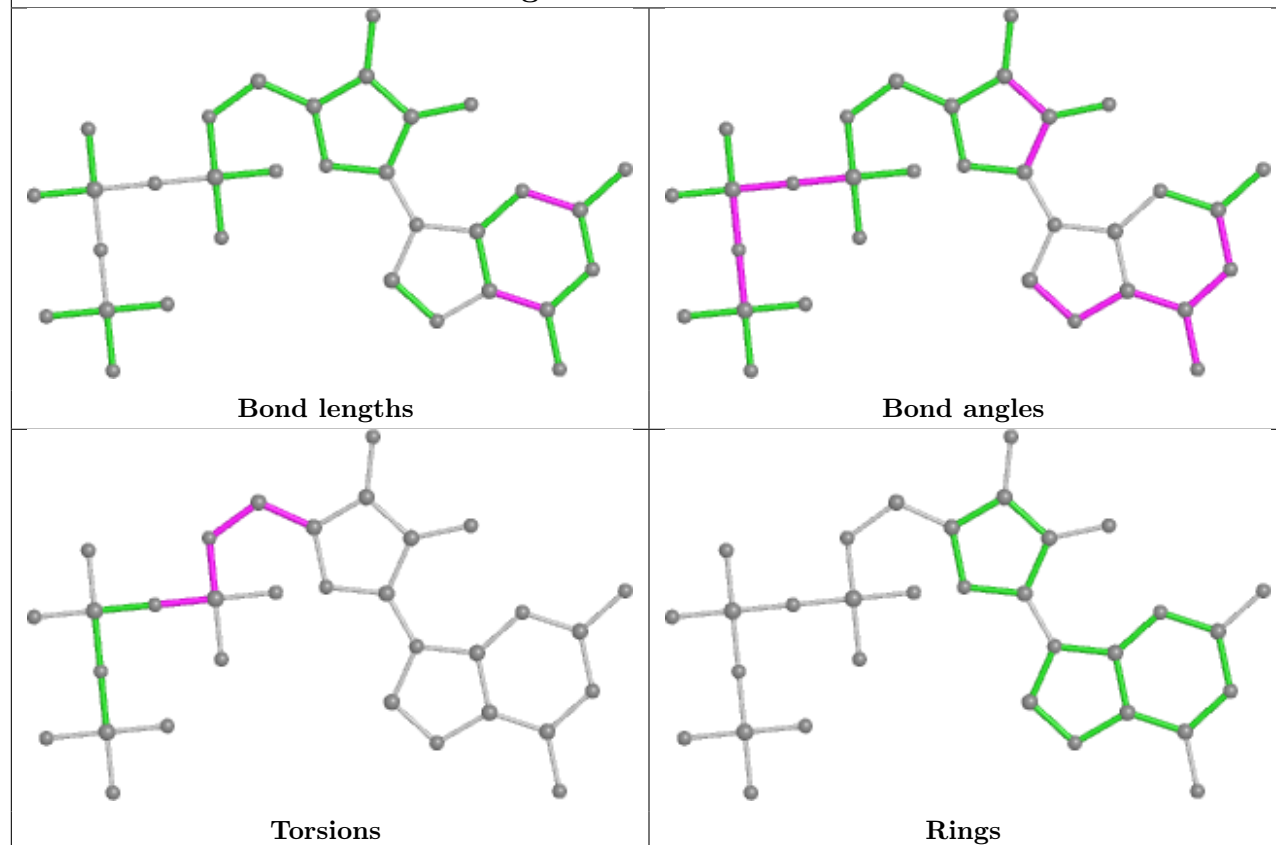


Ligand GTP UI 501

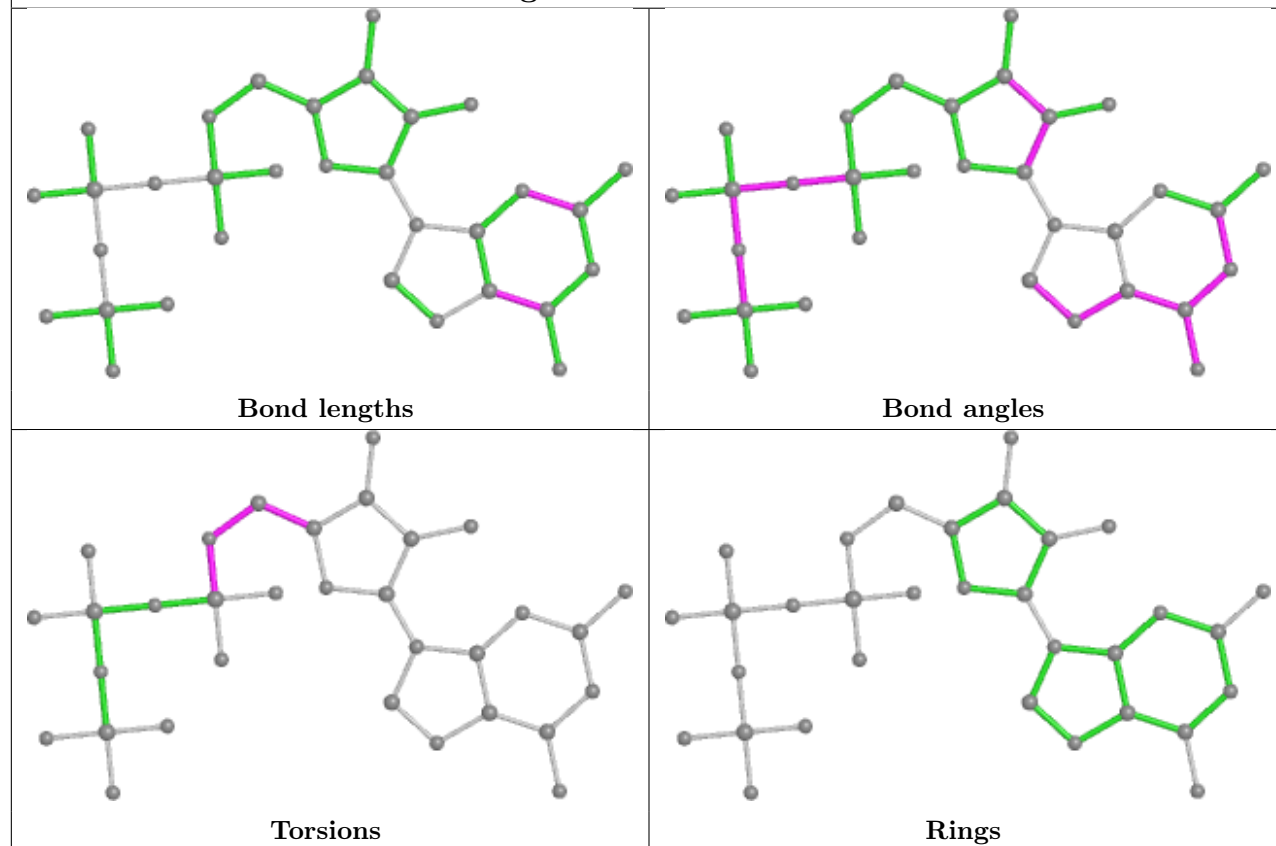


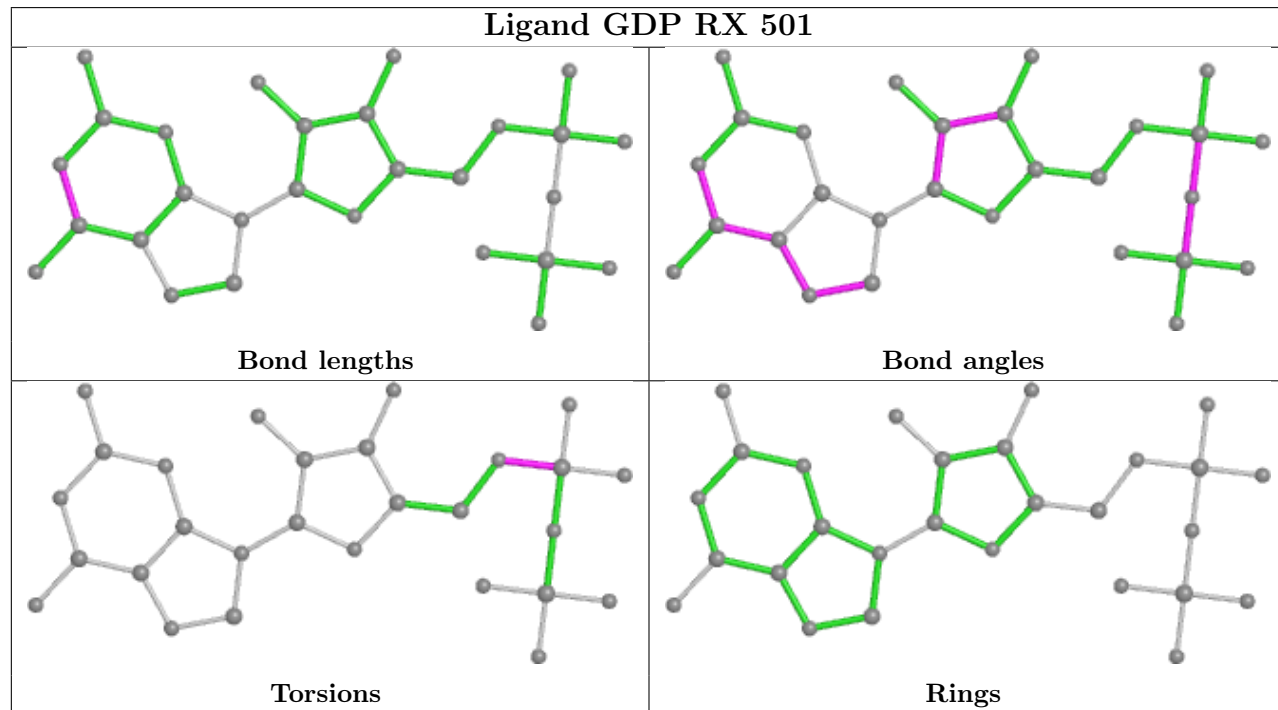
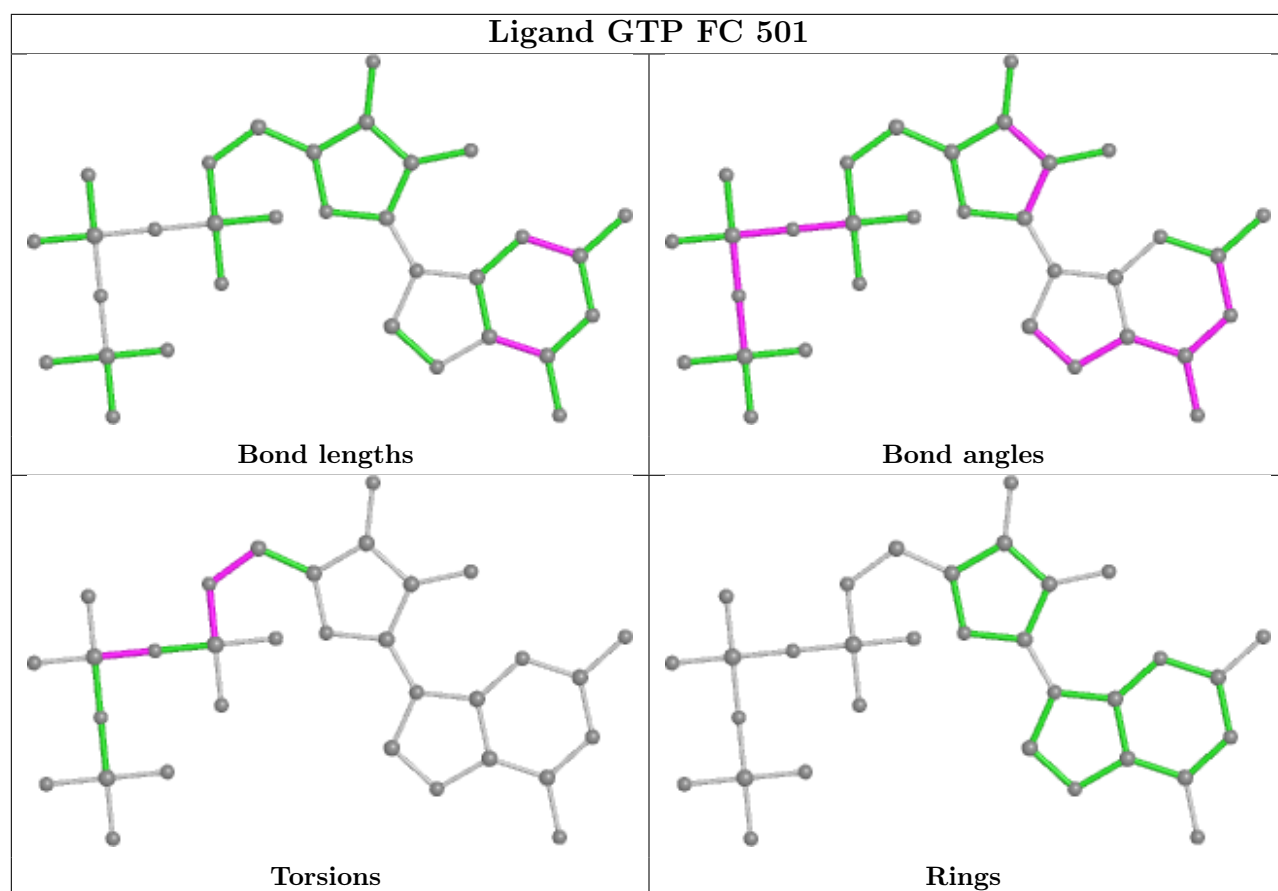


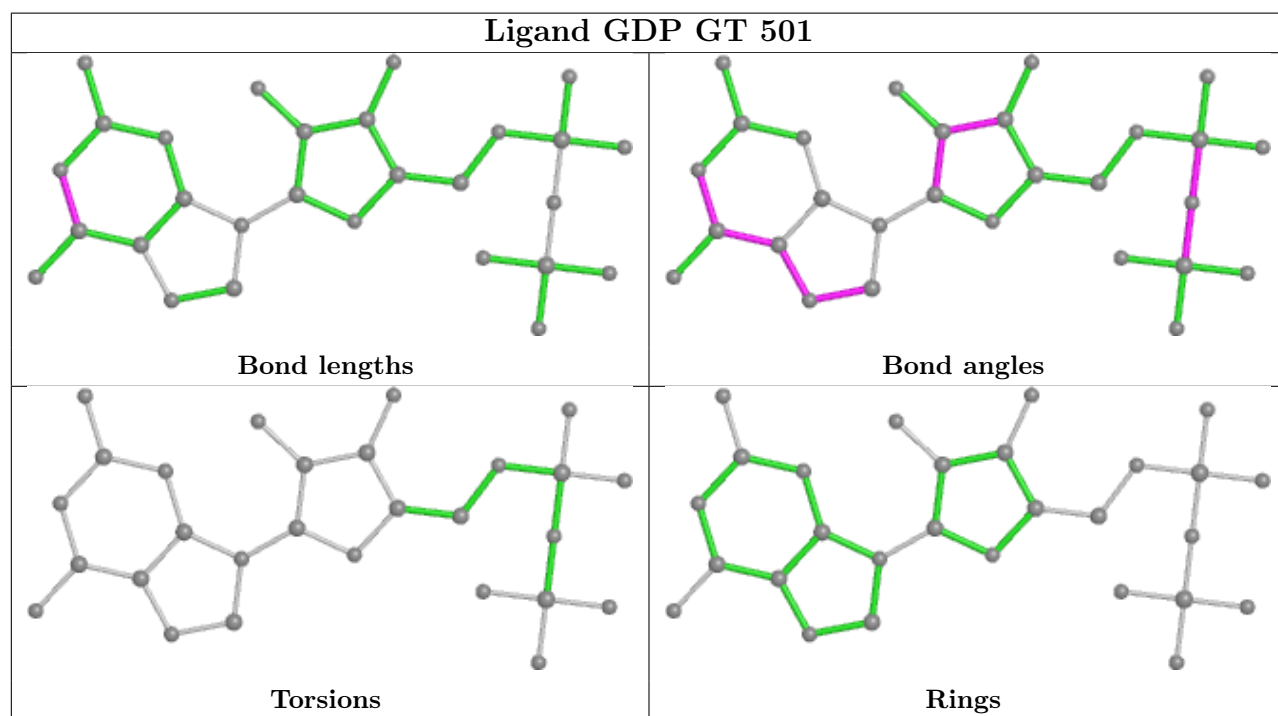
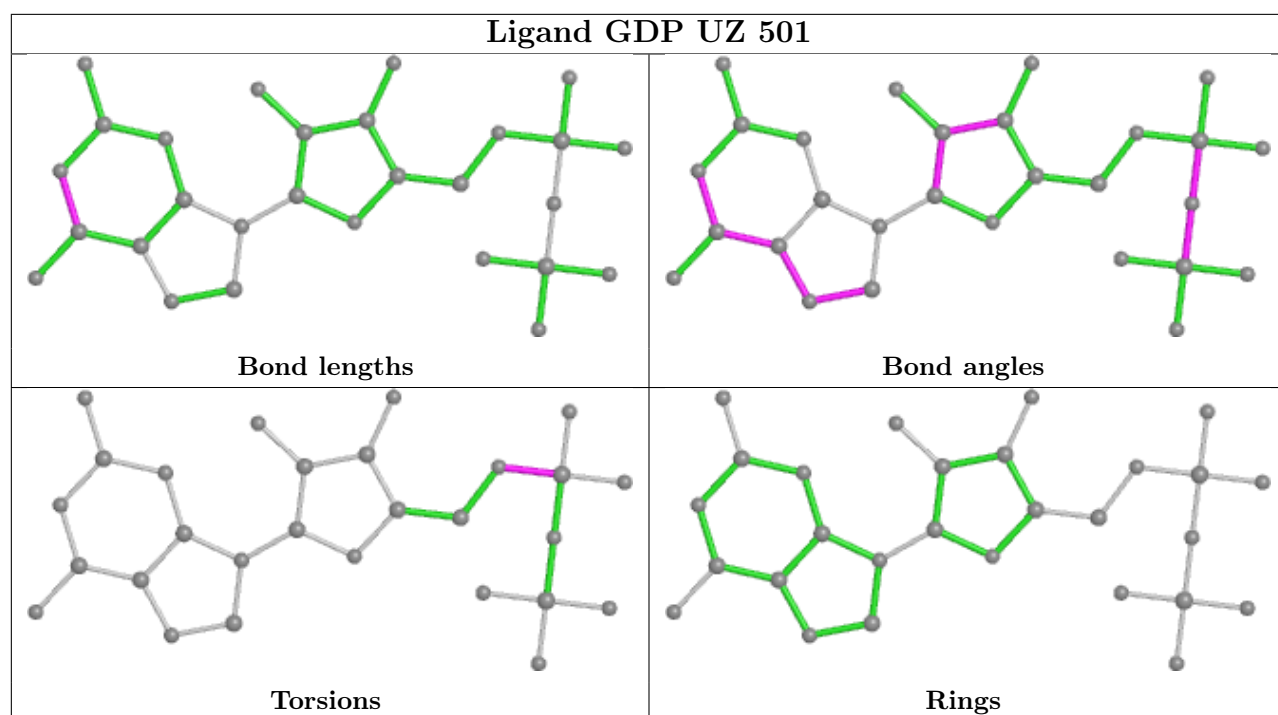
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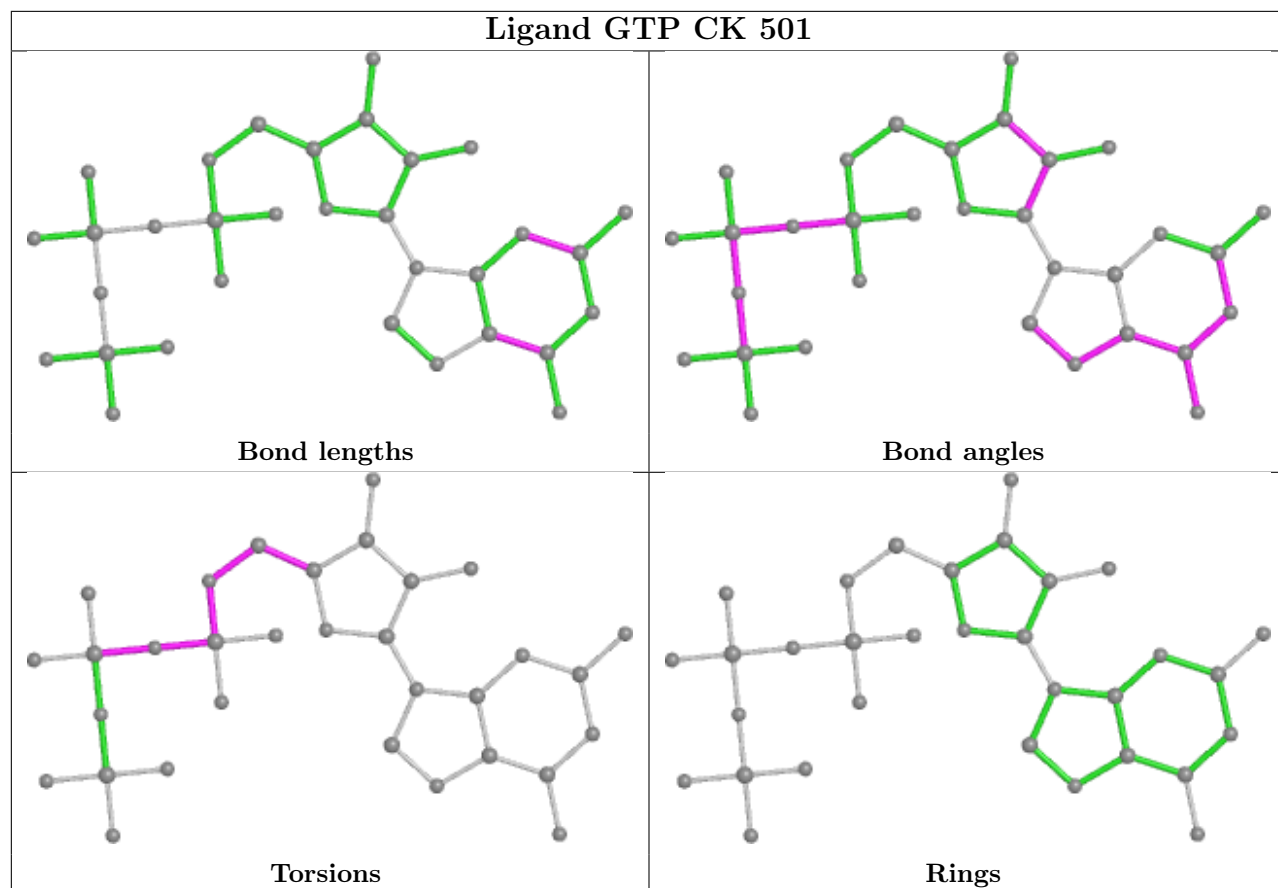
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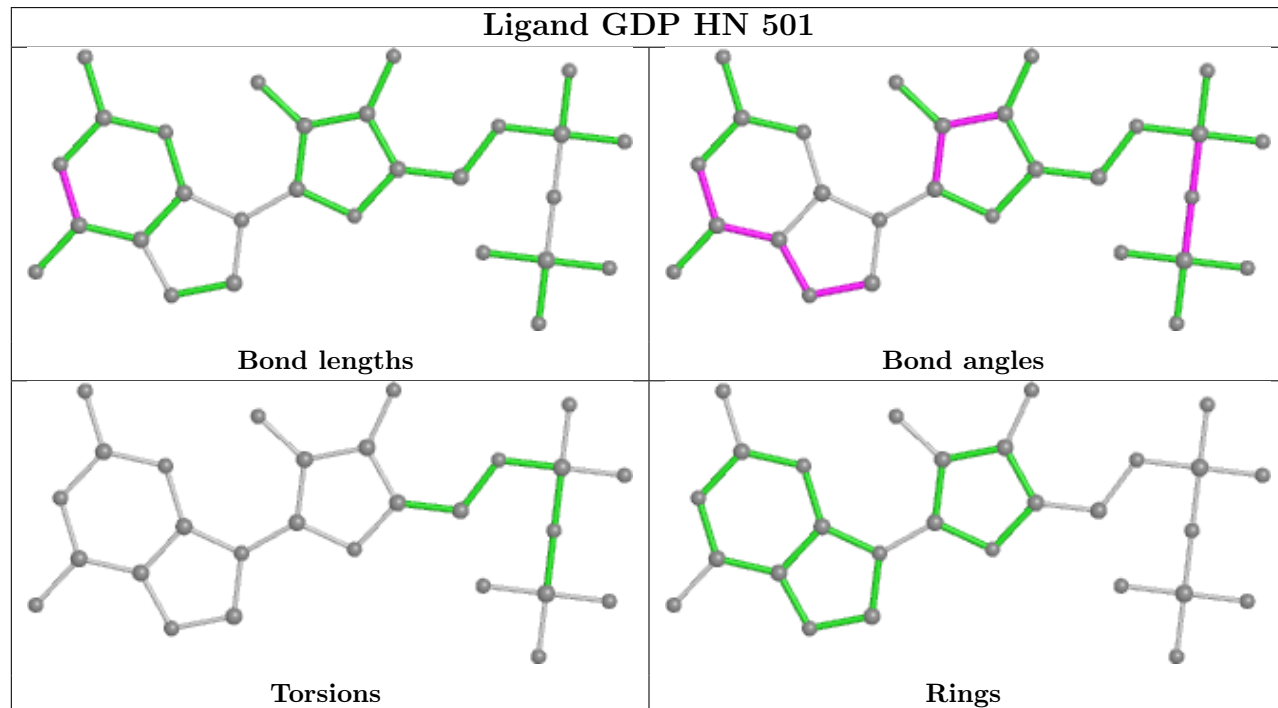




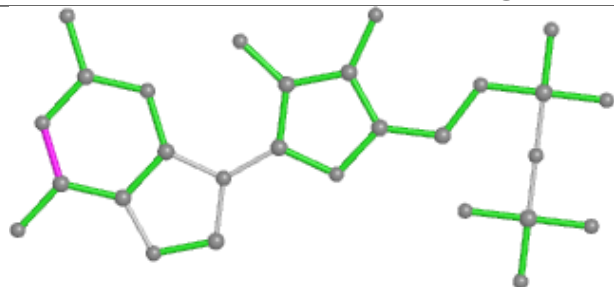
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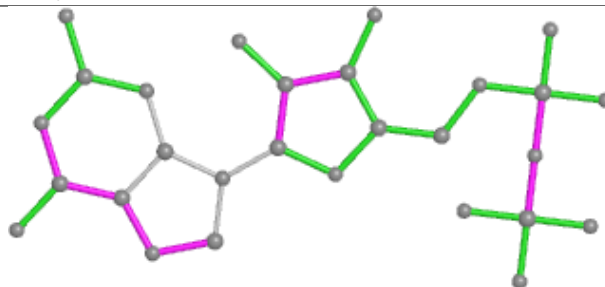
Ligand GDP HN 501



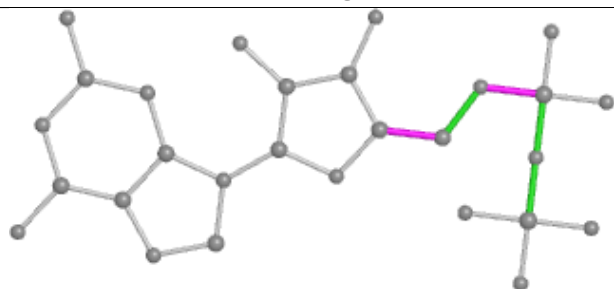
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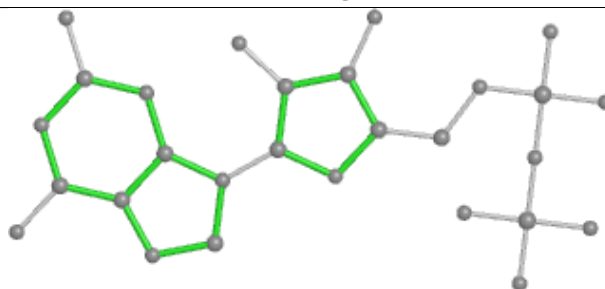
Bond lengths



Bond angles

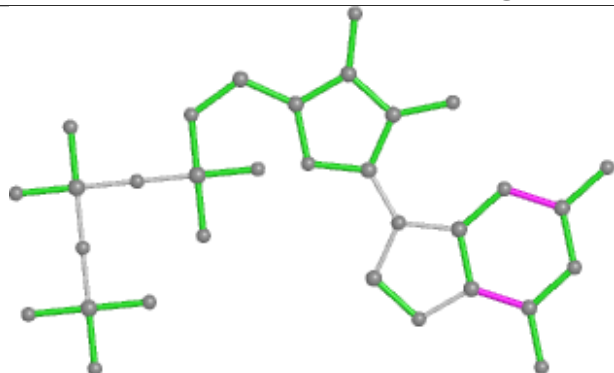


Torsions

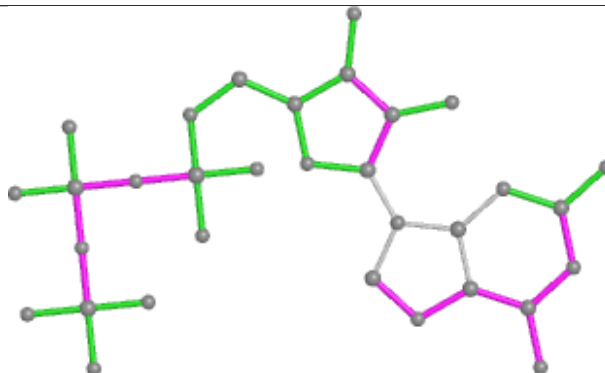


Rings

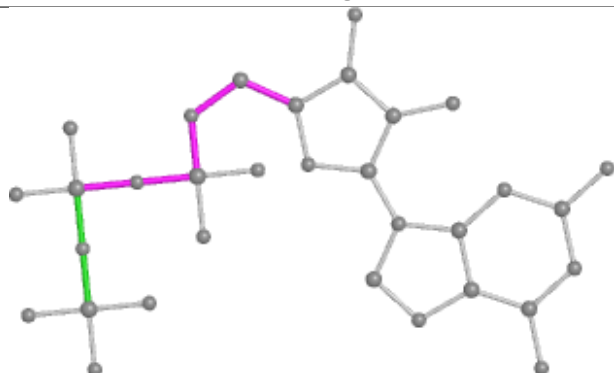
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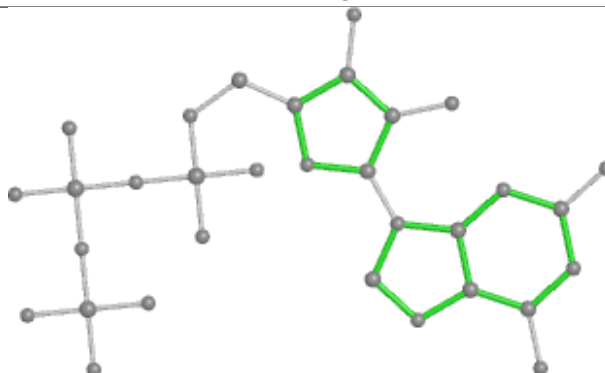
Bond lengths



Bond angles

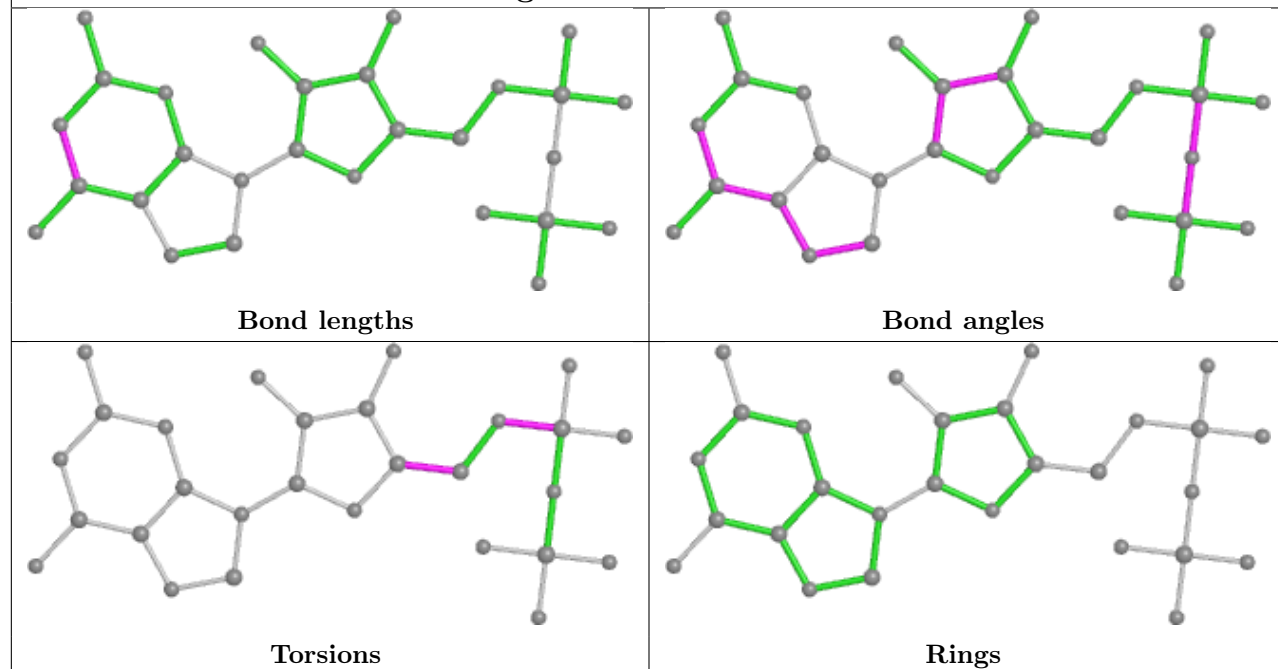


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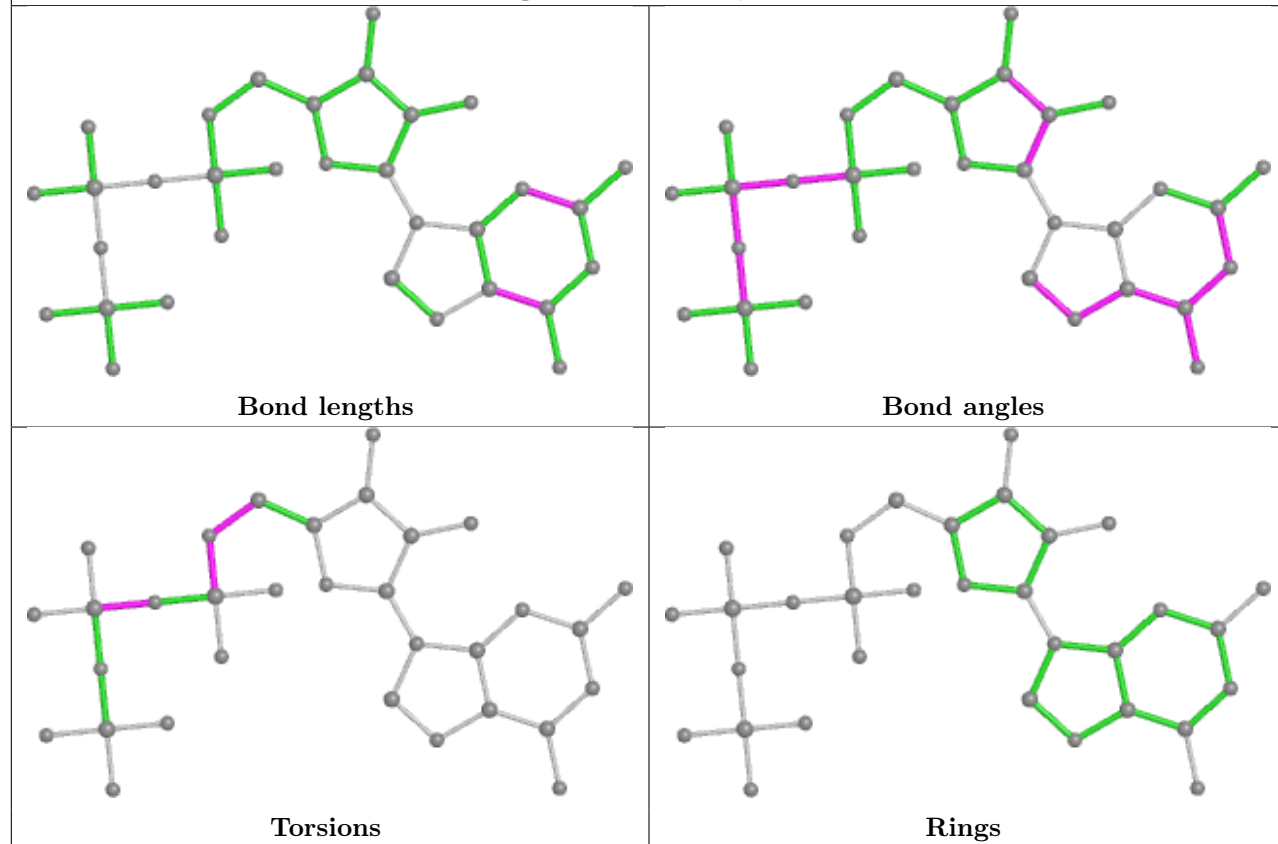


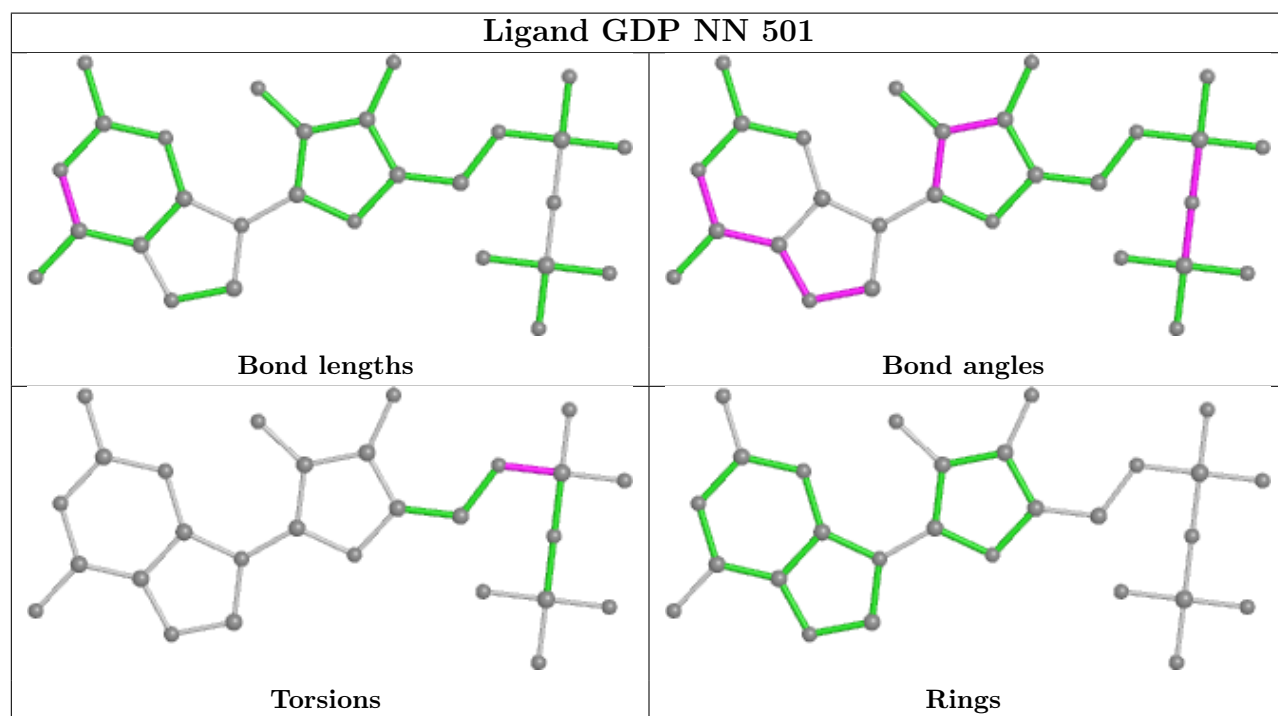
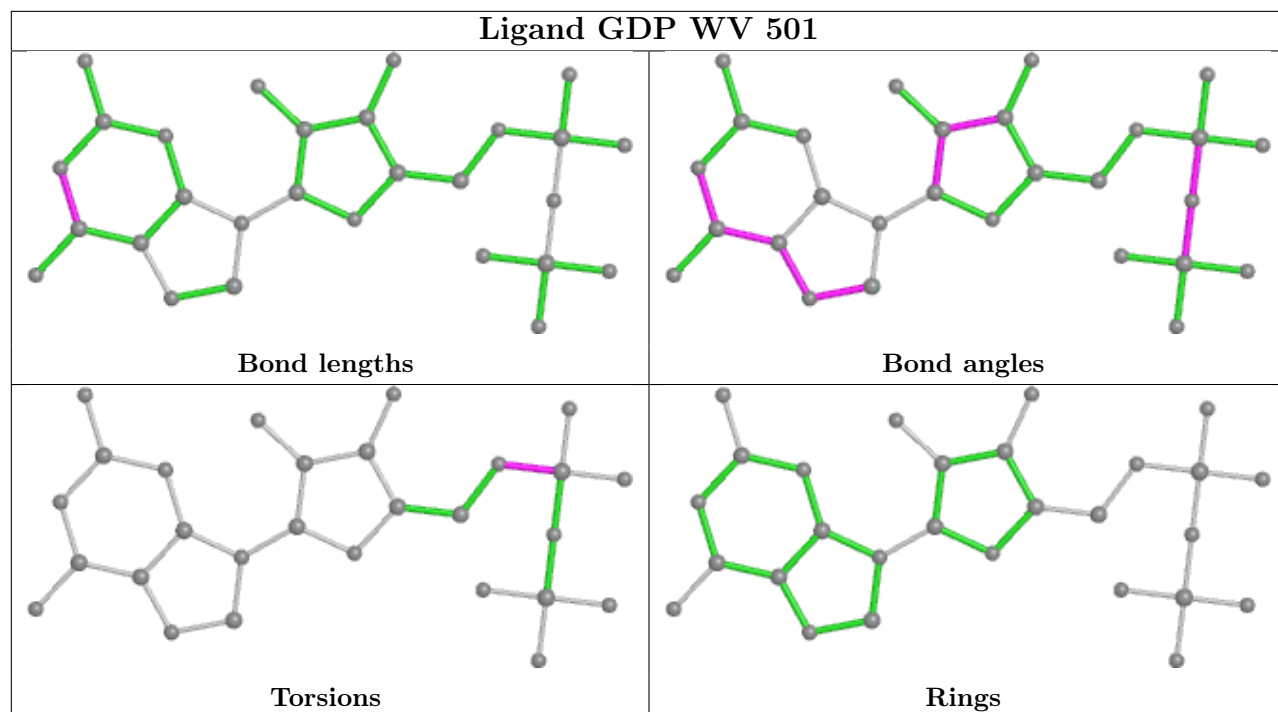
Rings

Ligand GDP TR 501

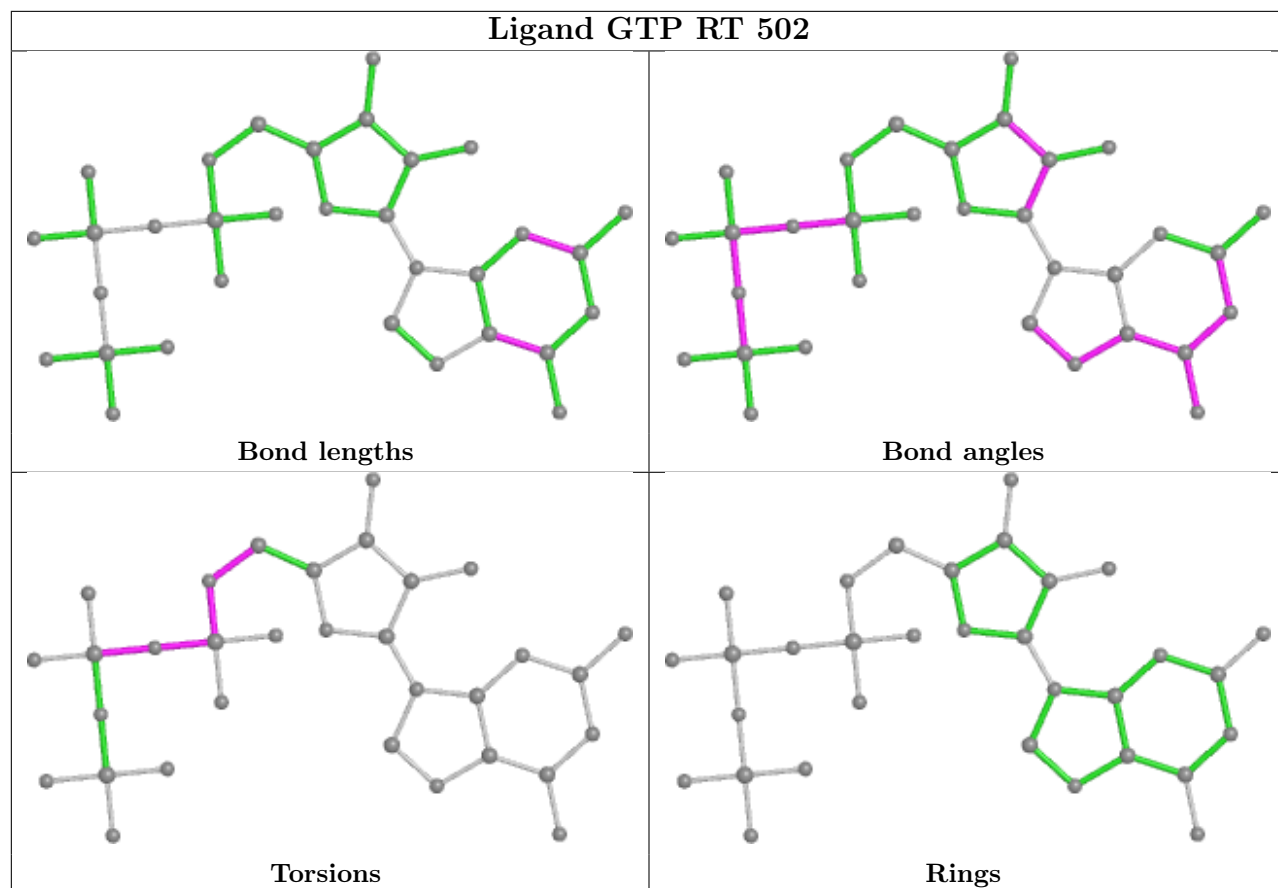


Ligand GTP KQ 501

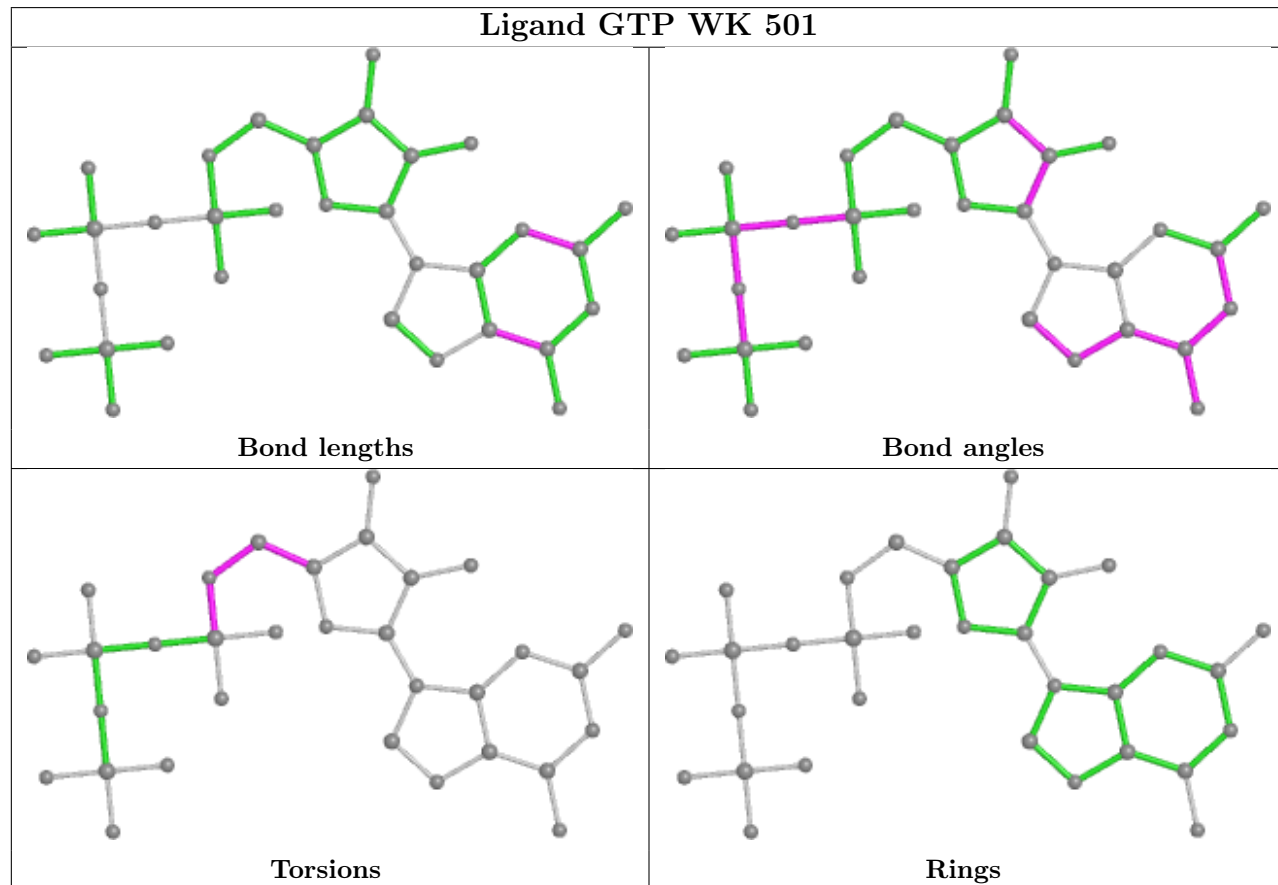




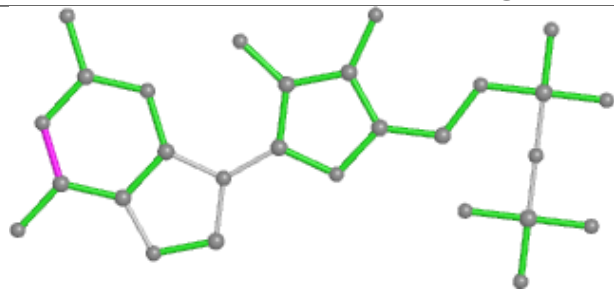
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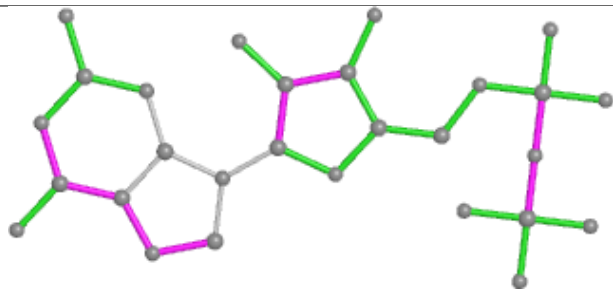
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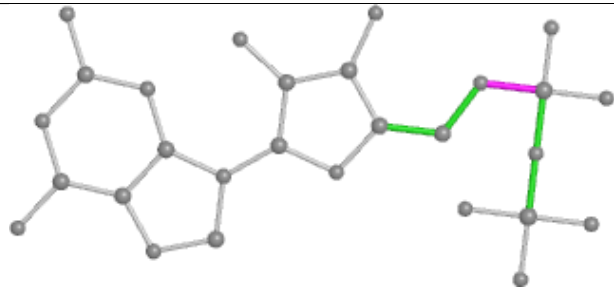
Ligand GDP OX 501



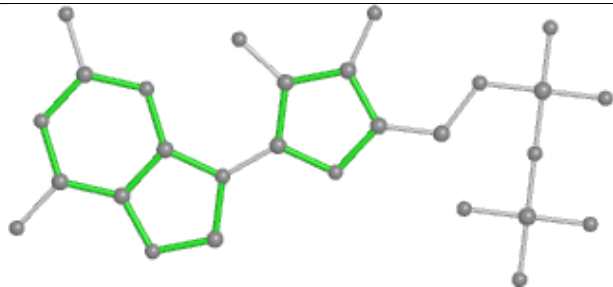
Bond lengths



Bond angles

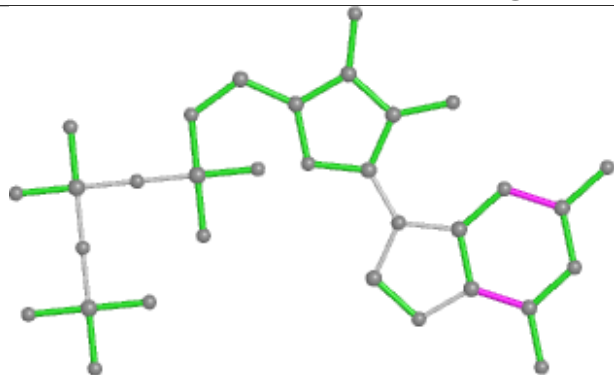


Torsions

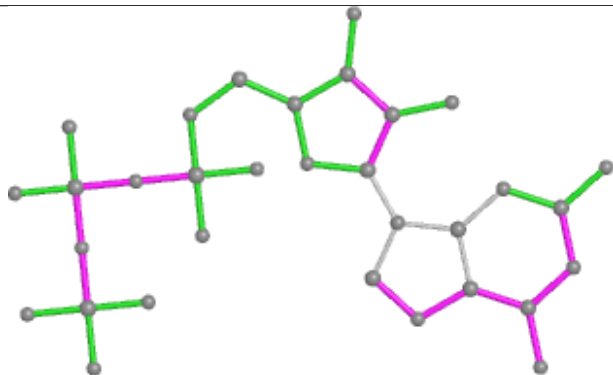


Rings

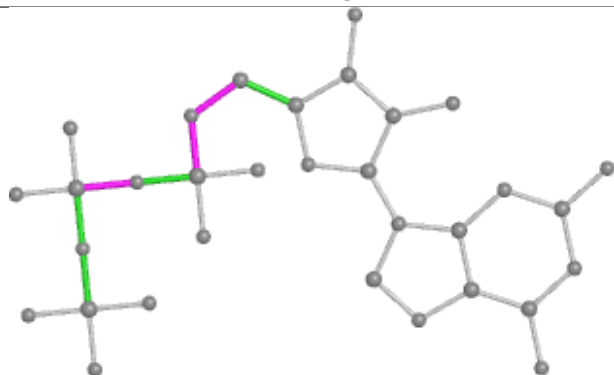
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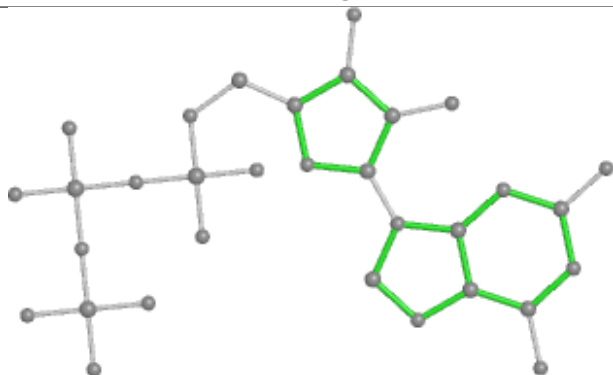
Bond lengths



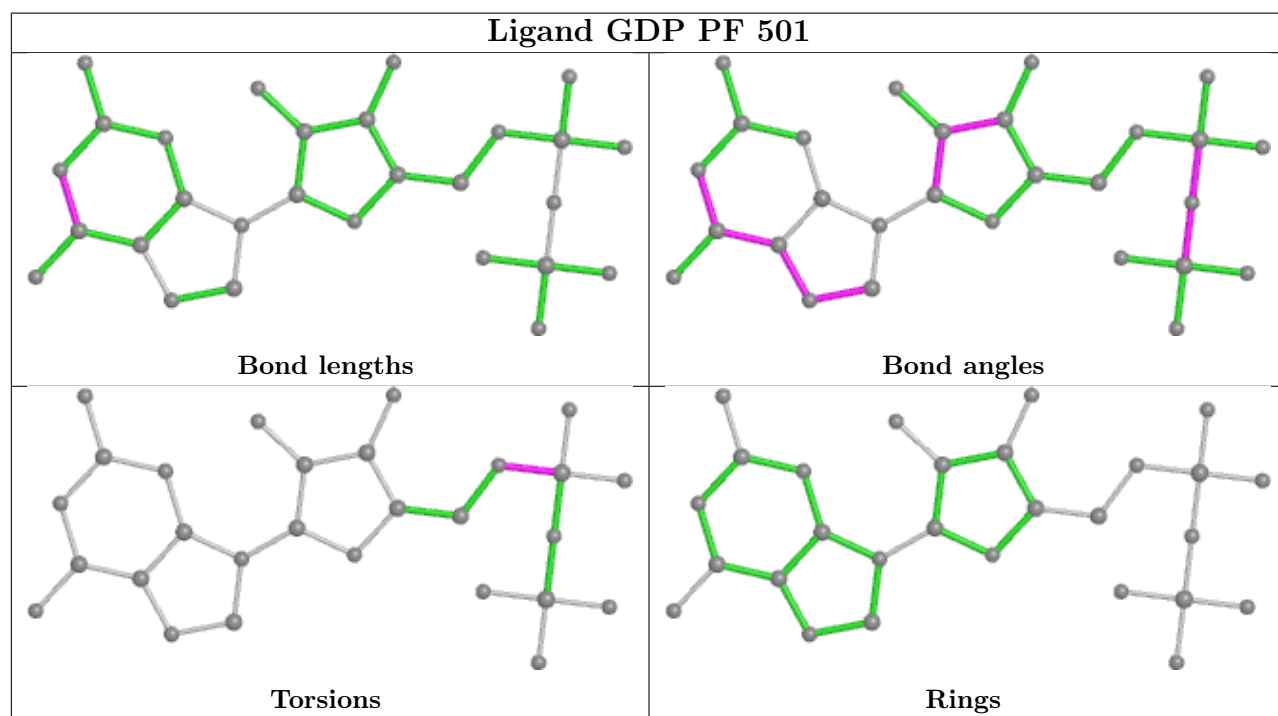
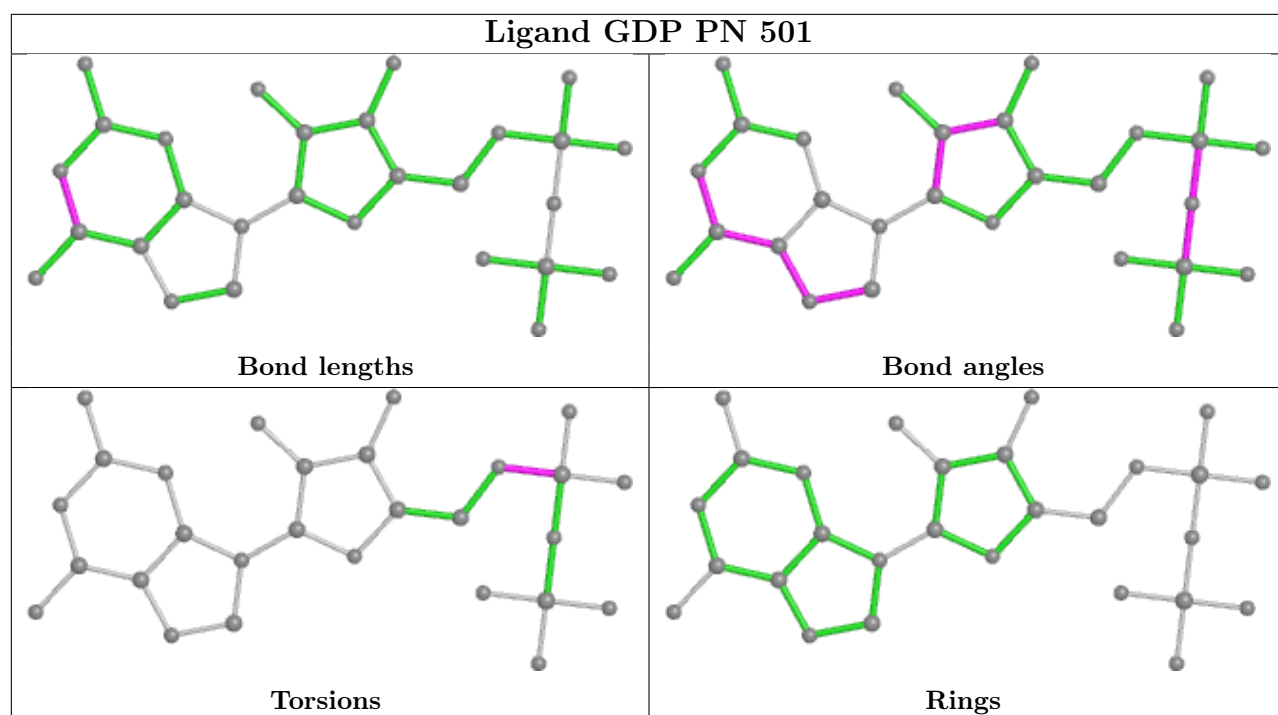
Bond angles



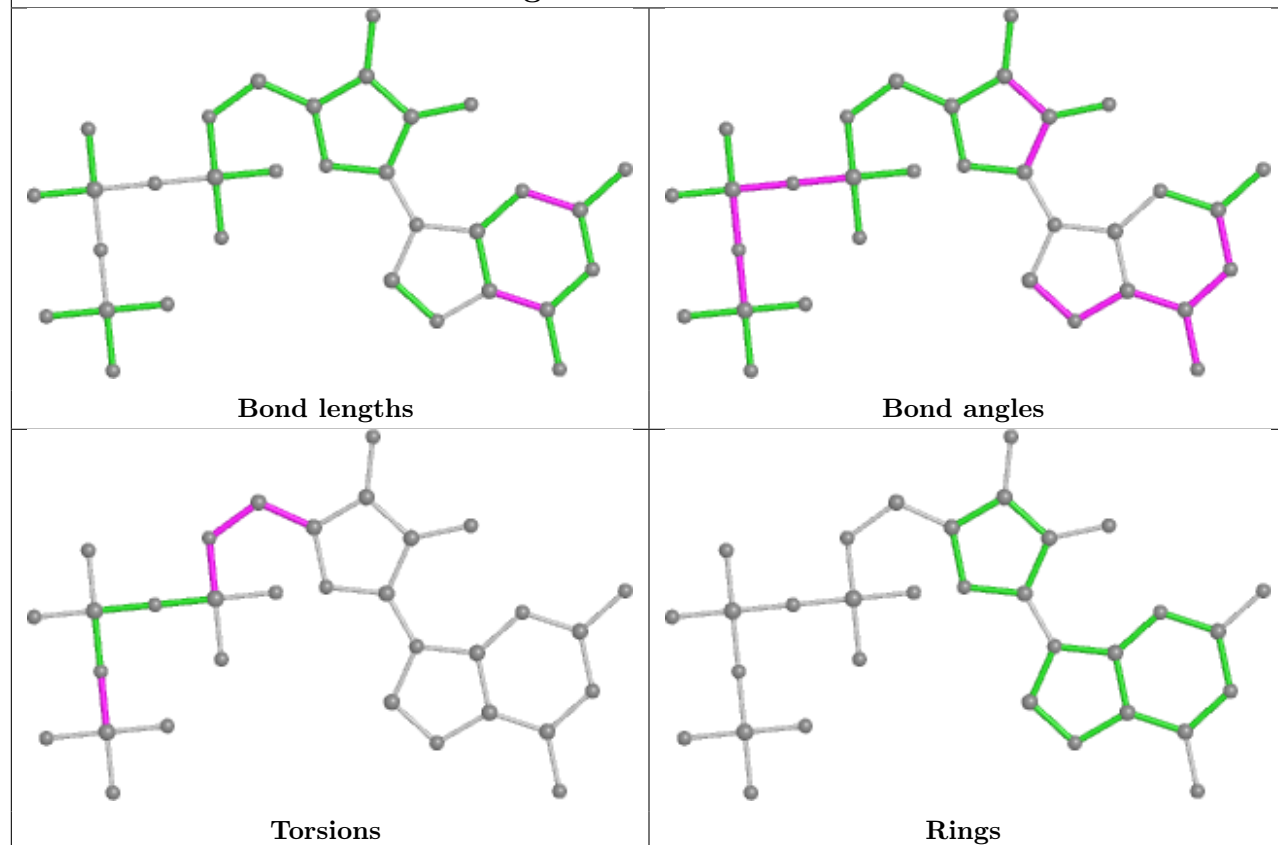
Torsions



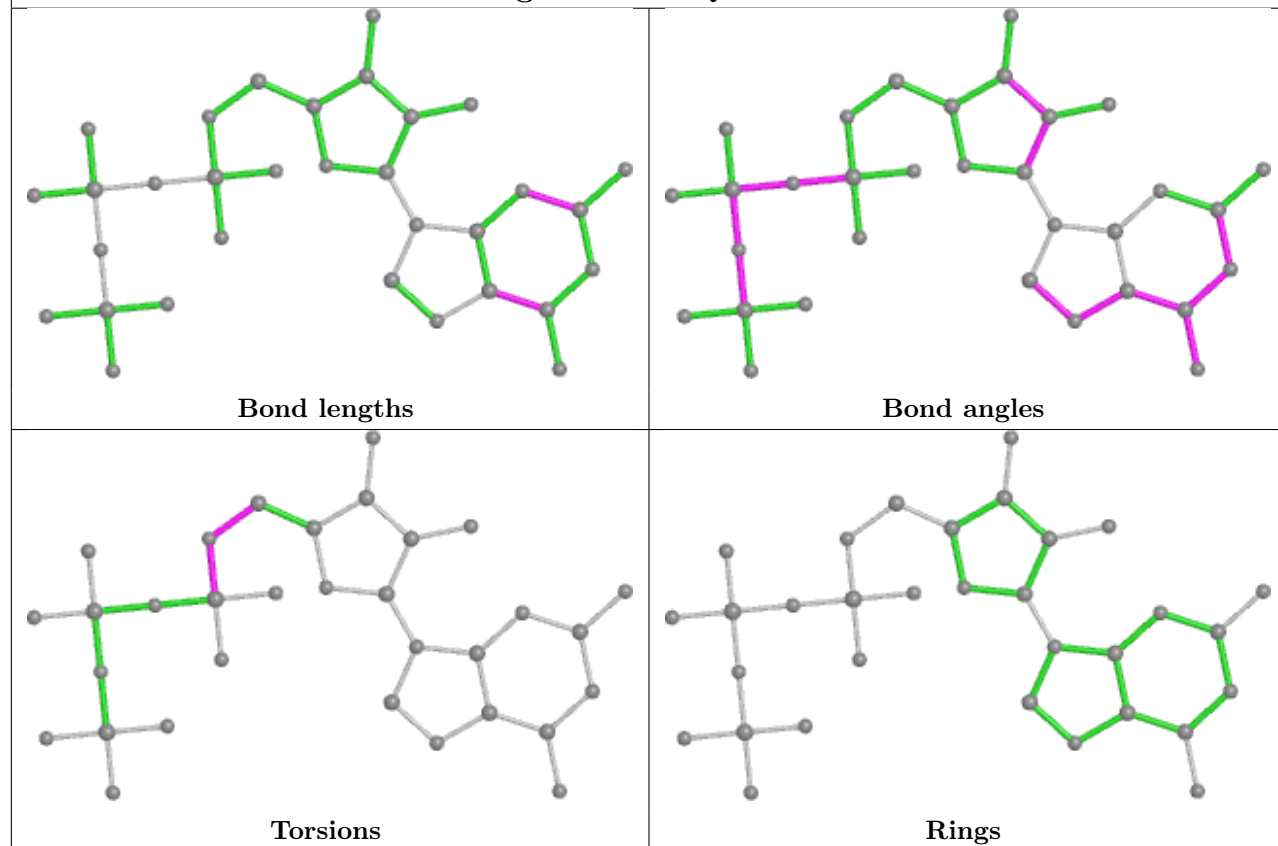
Rings



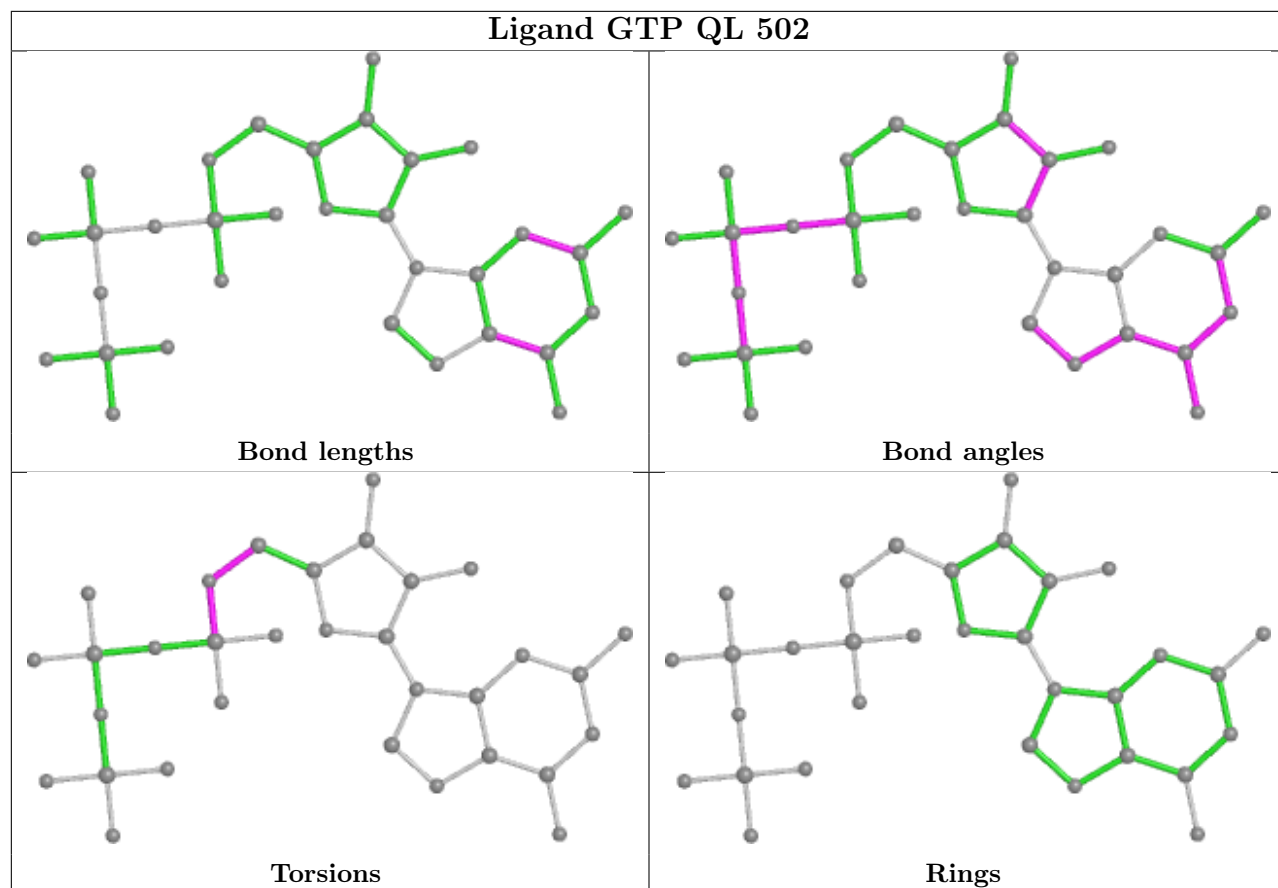
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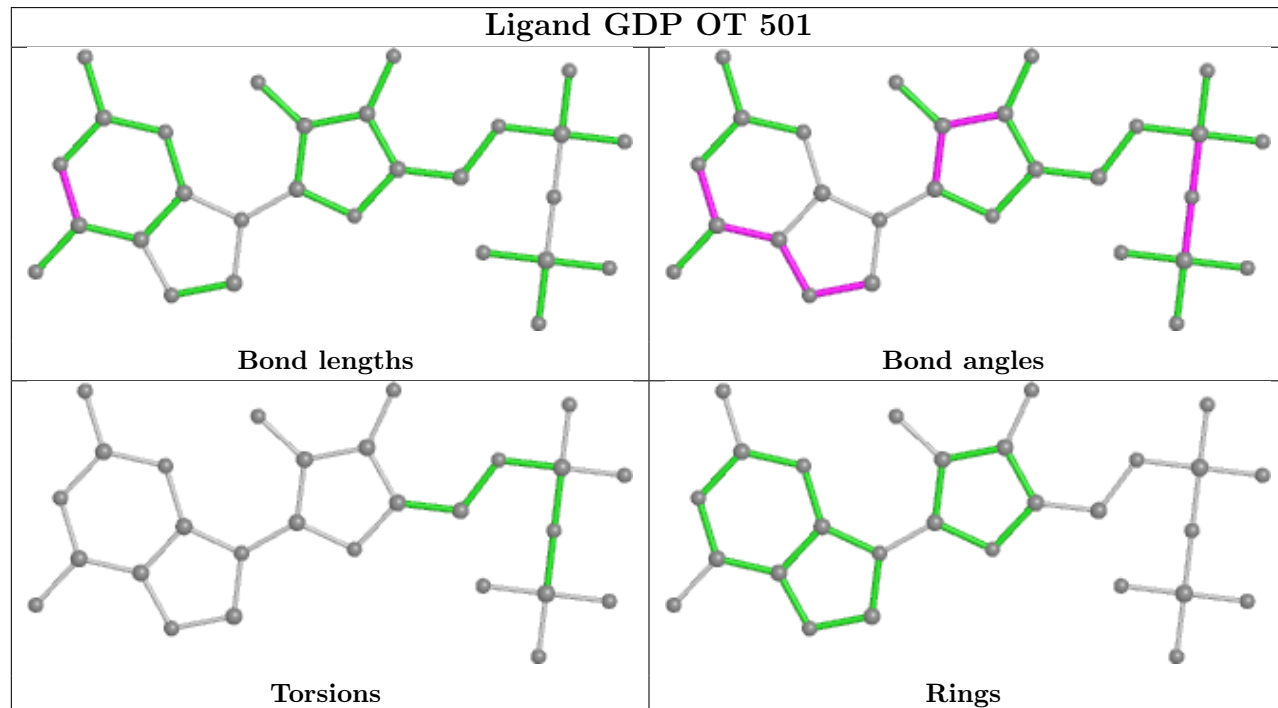
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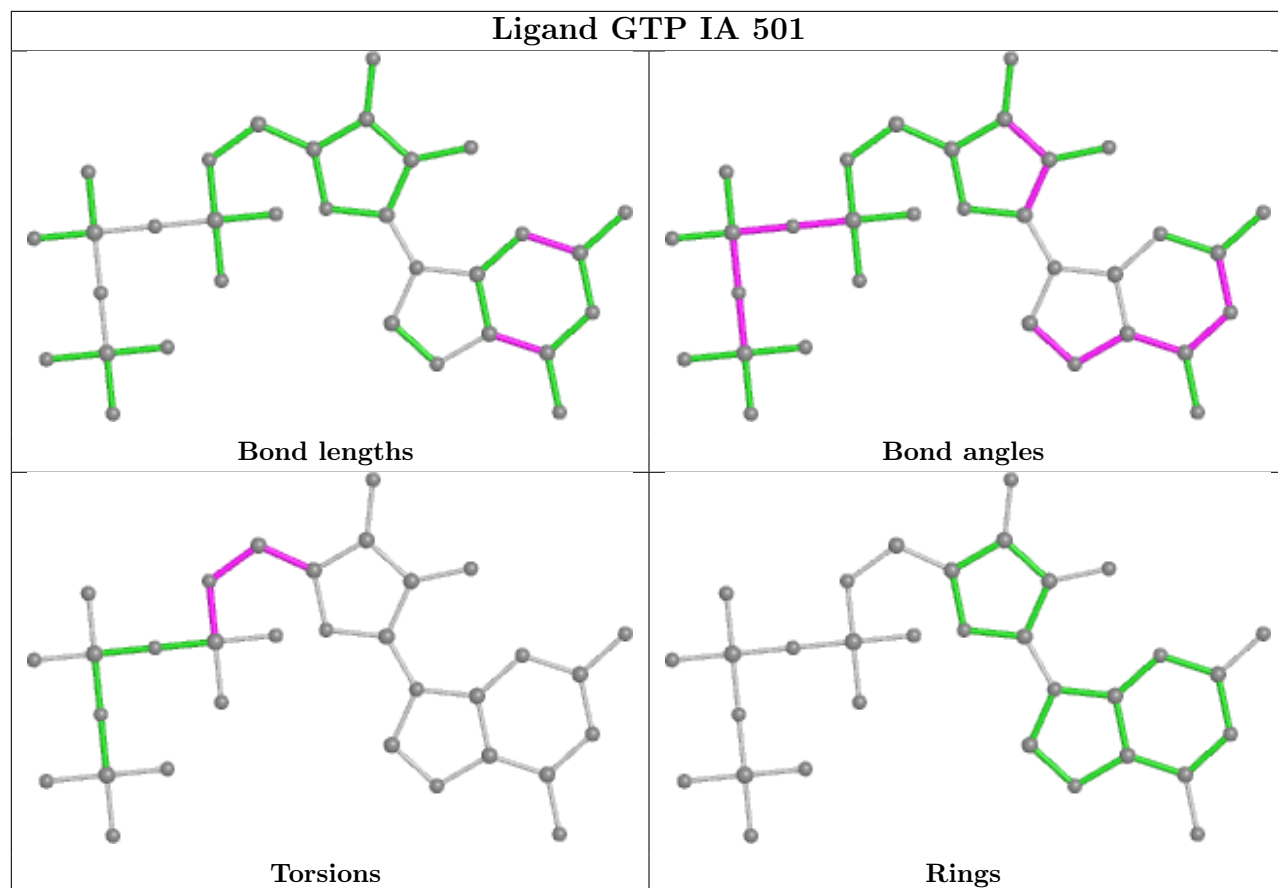
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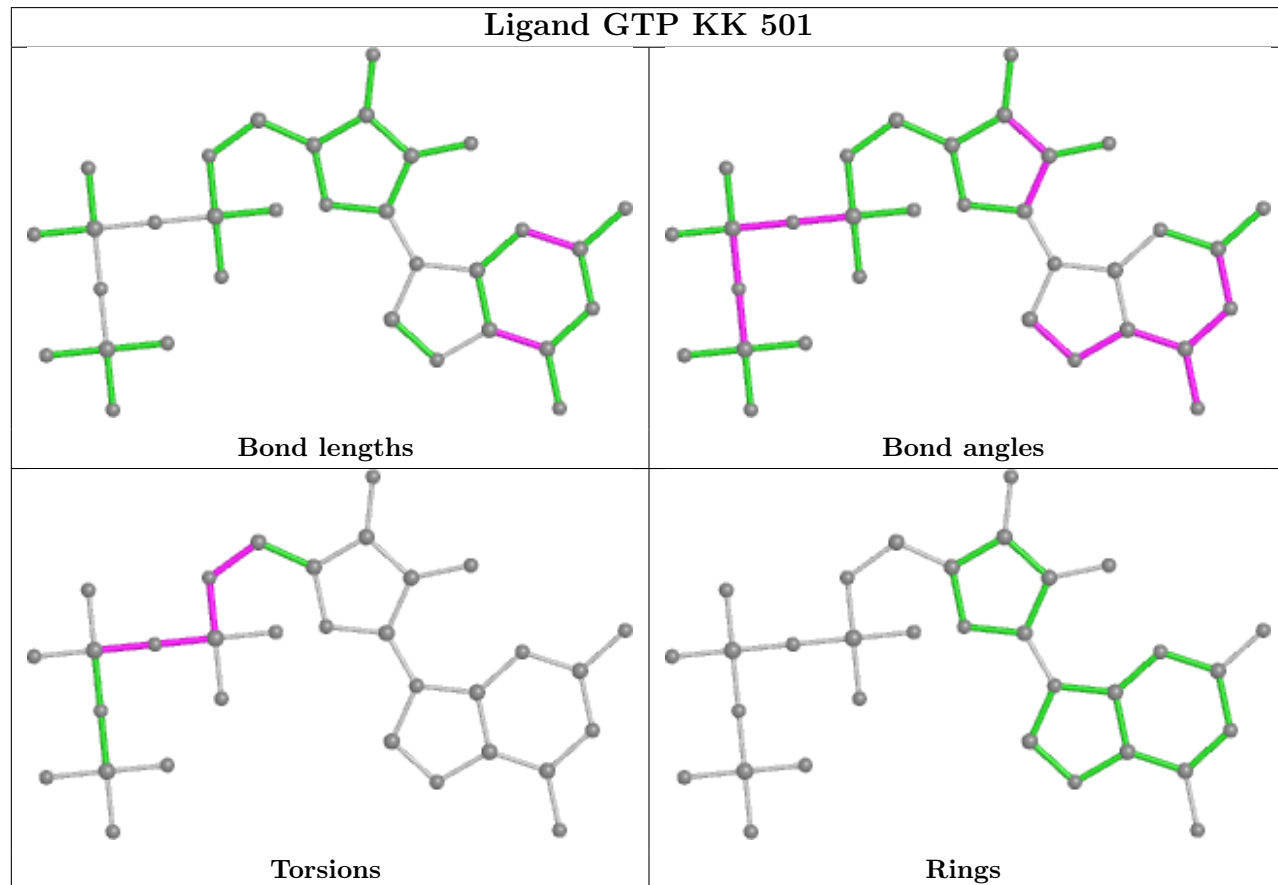
Ligand GDP OT 501



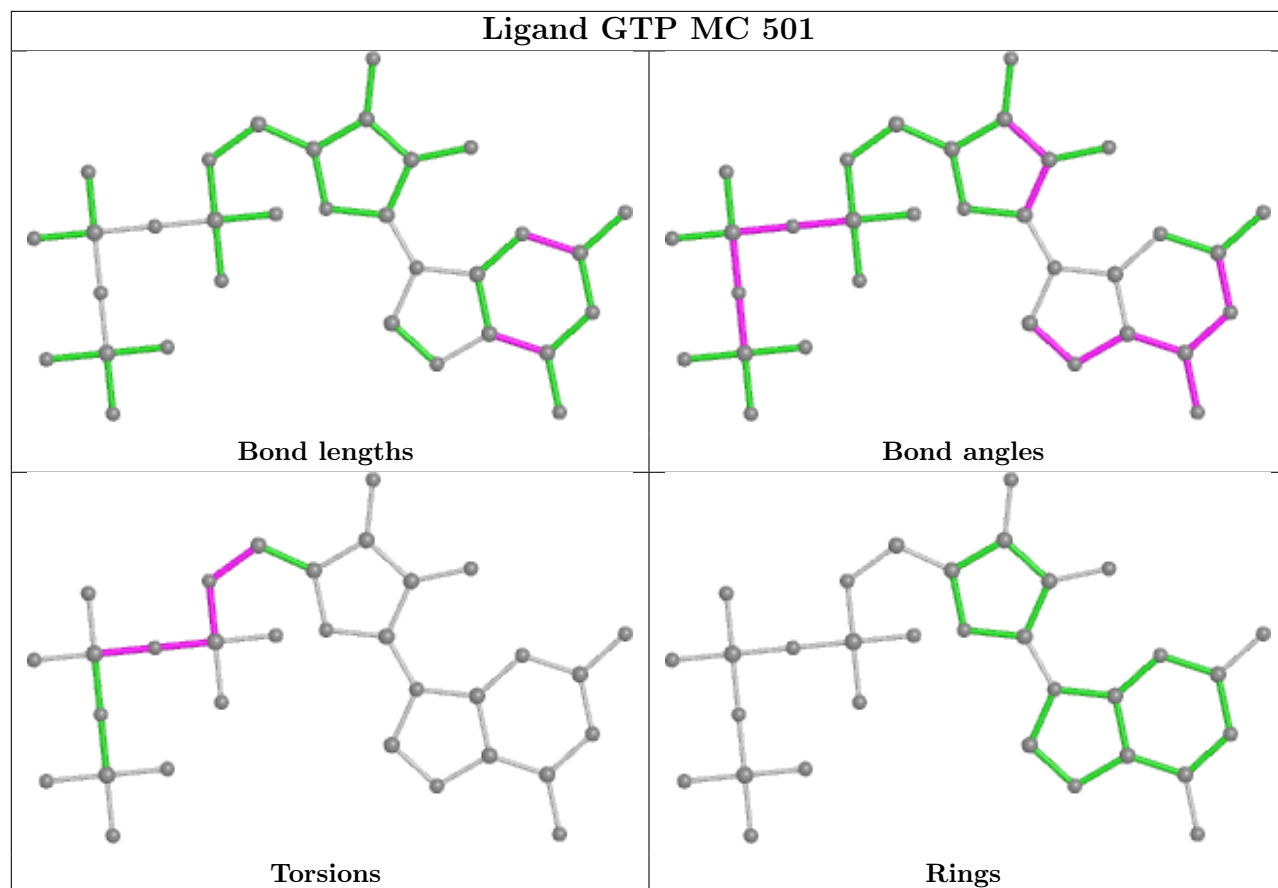
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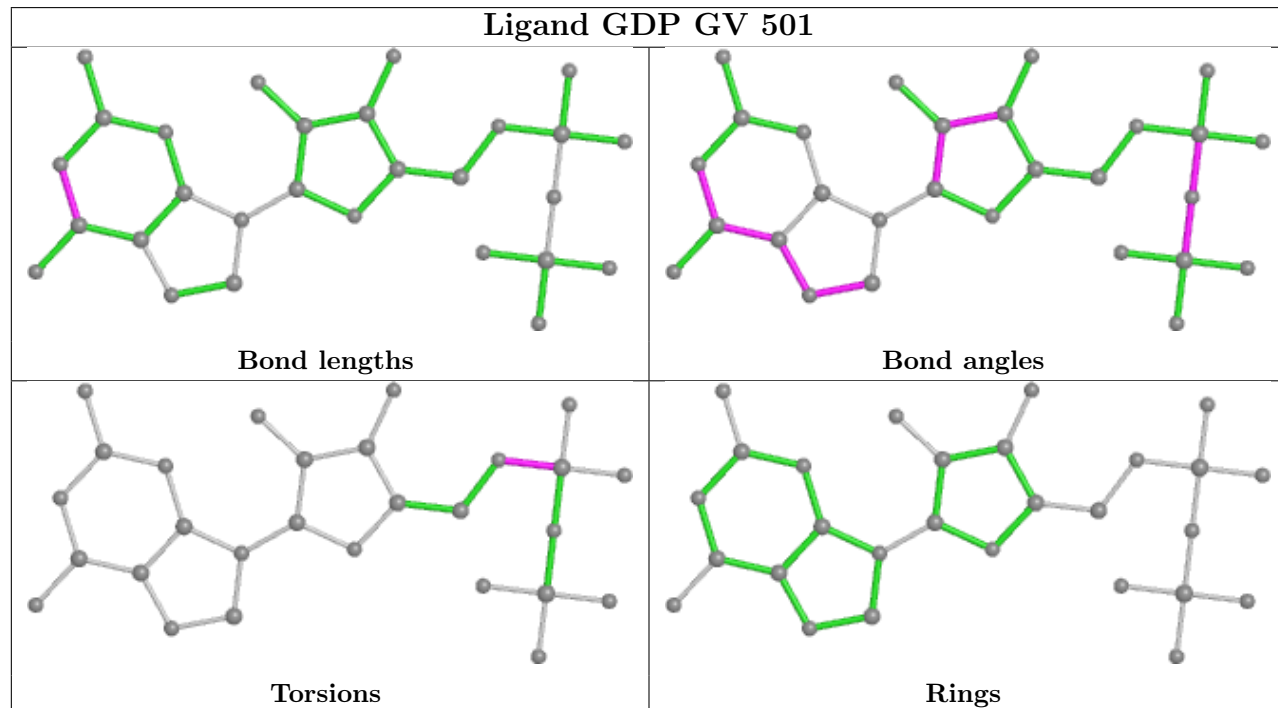
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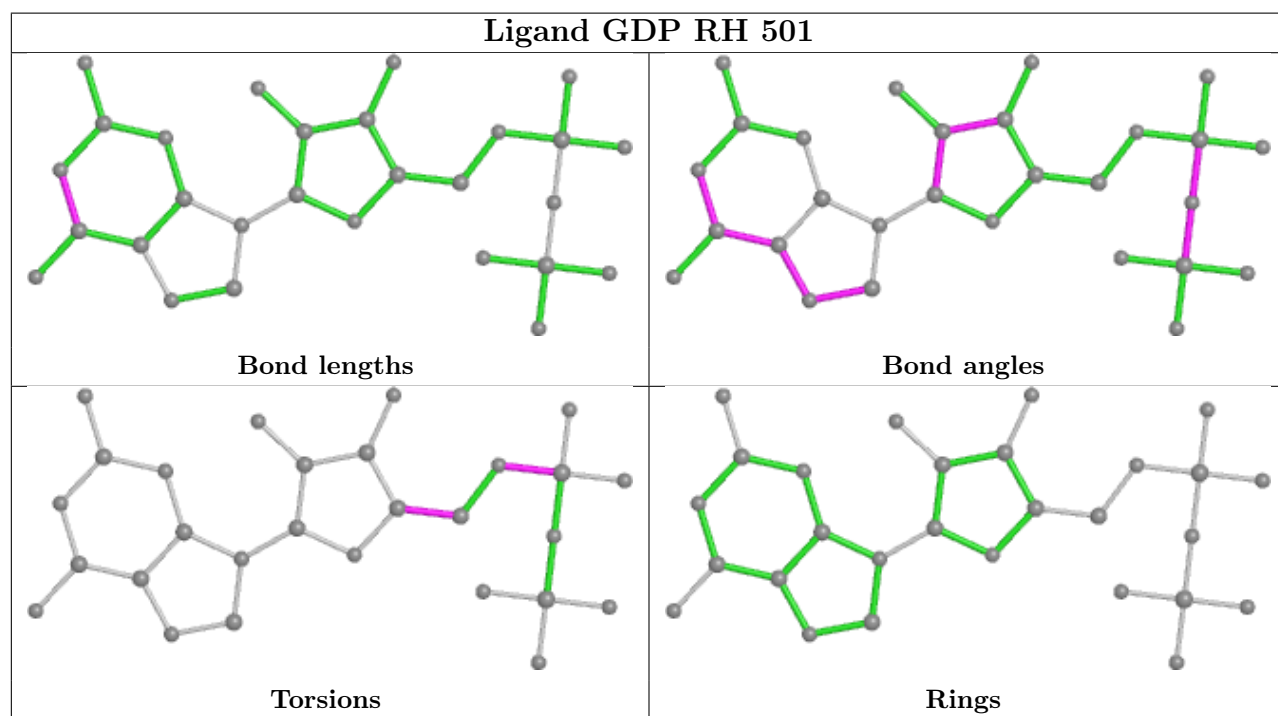
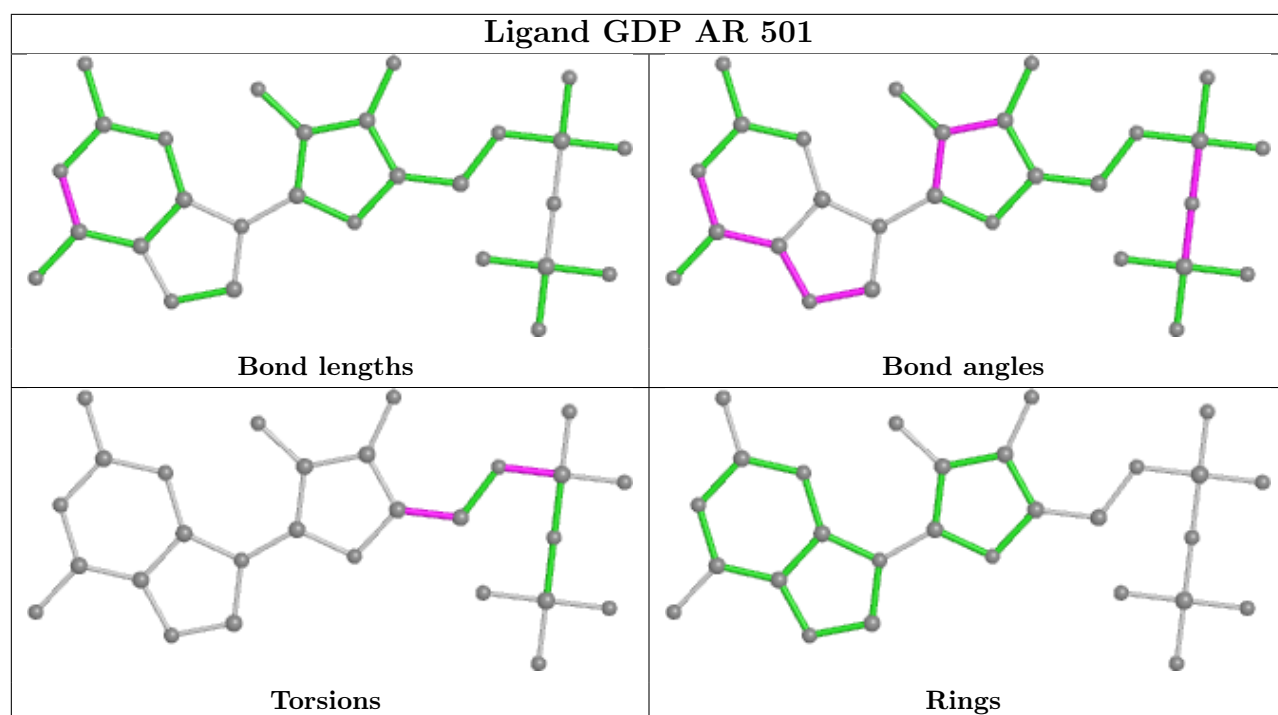


Ligand GTP MC 501

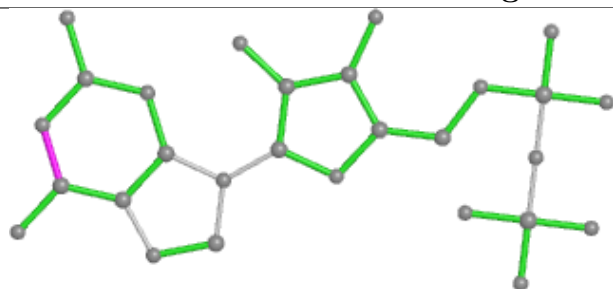


Ligand GDP GV 501

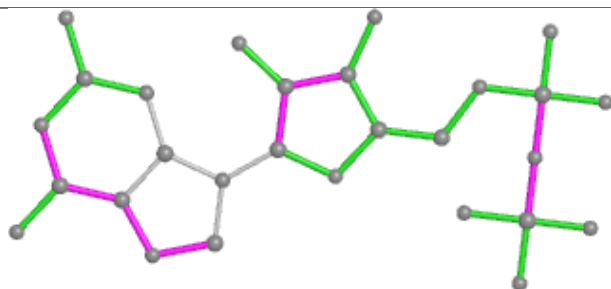




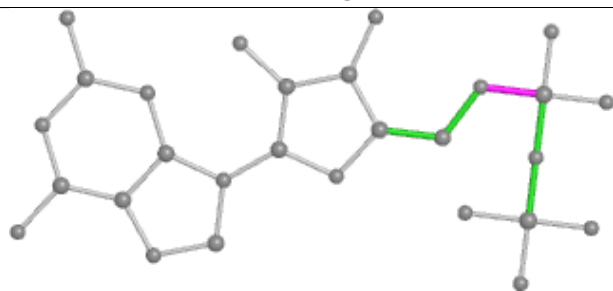
Ligand GDP EZ 501



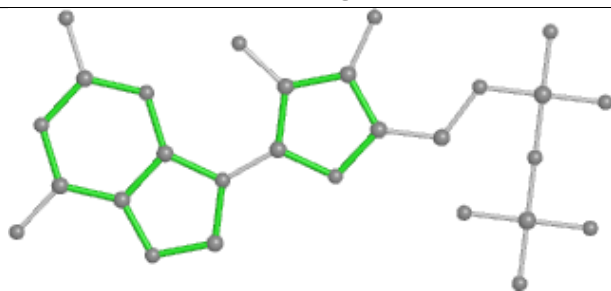
Bond lengths



Bond angles

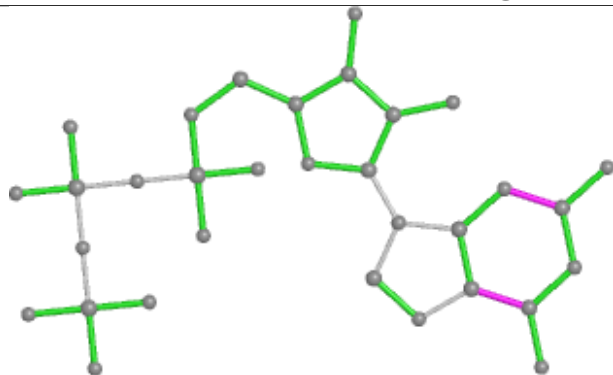


Torsions

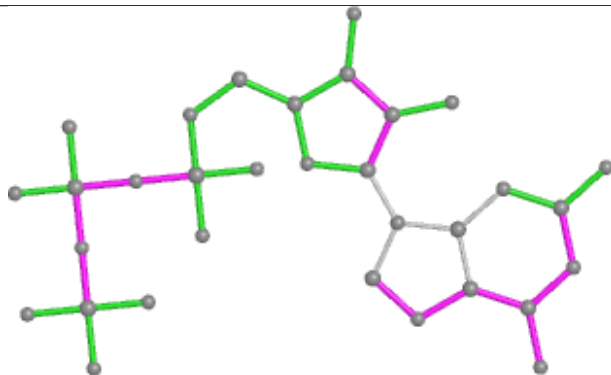


Rings

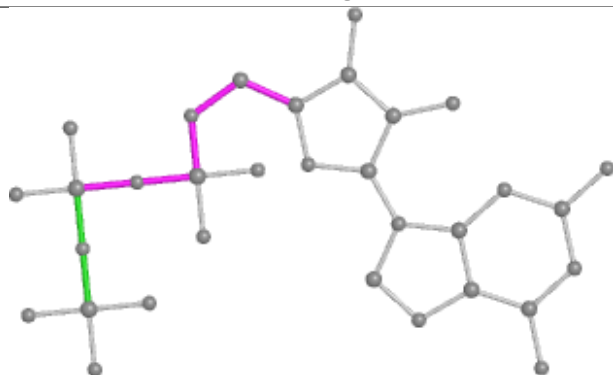
Ligand GTP ME 501



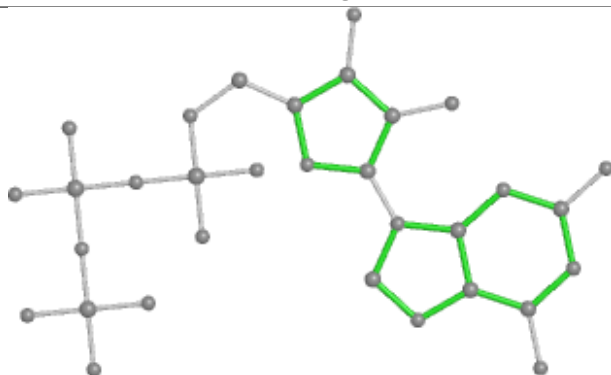
Bond lengths



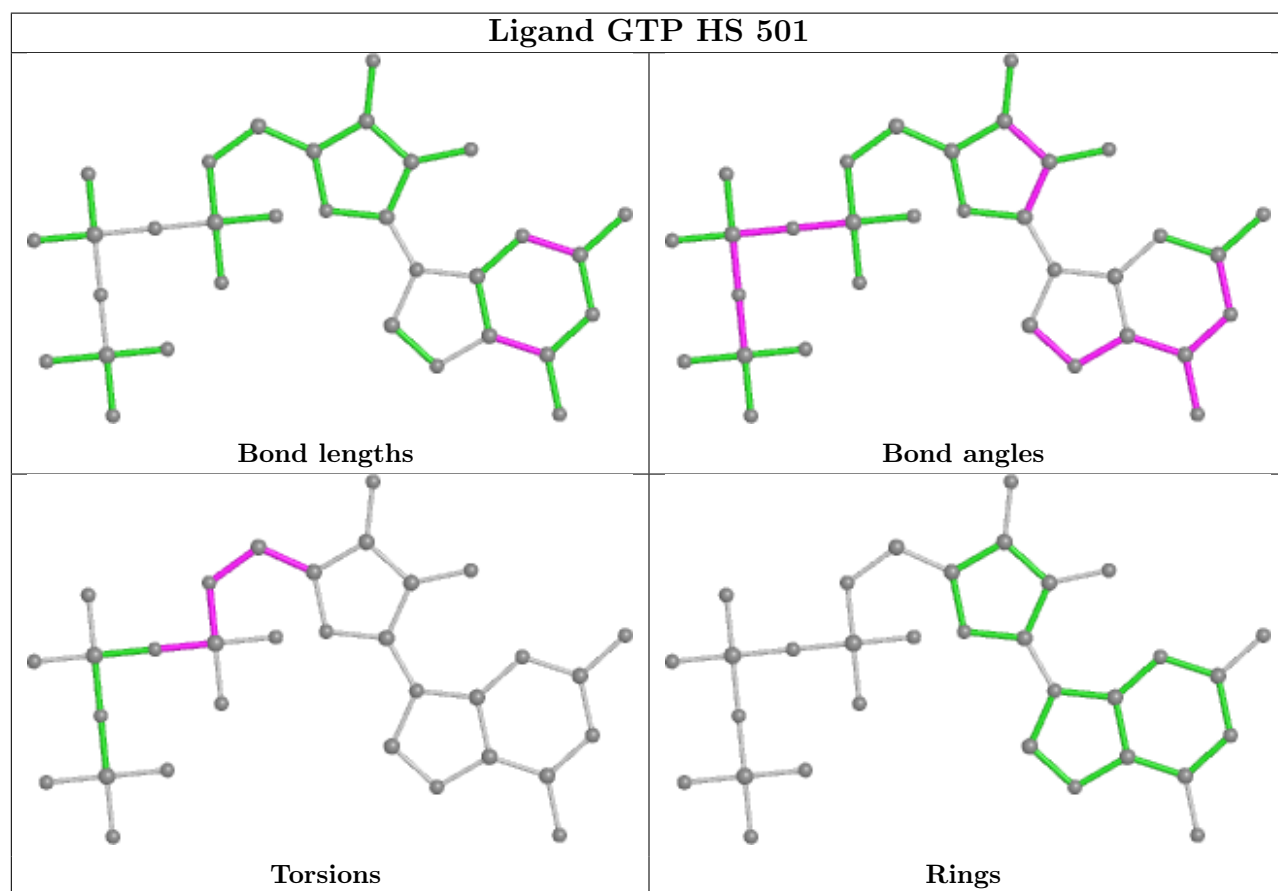
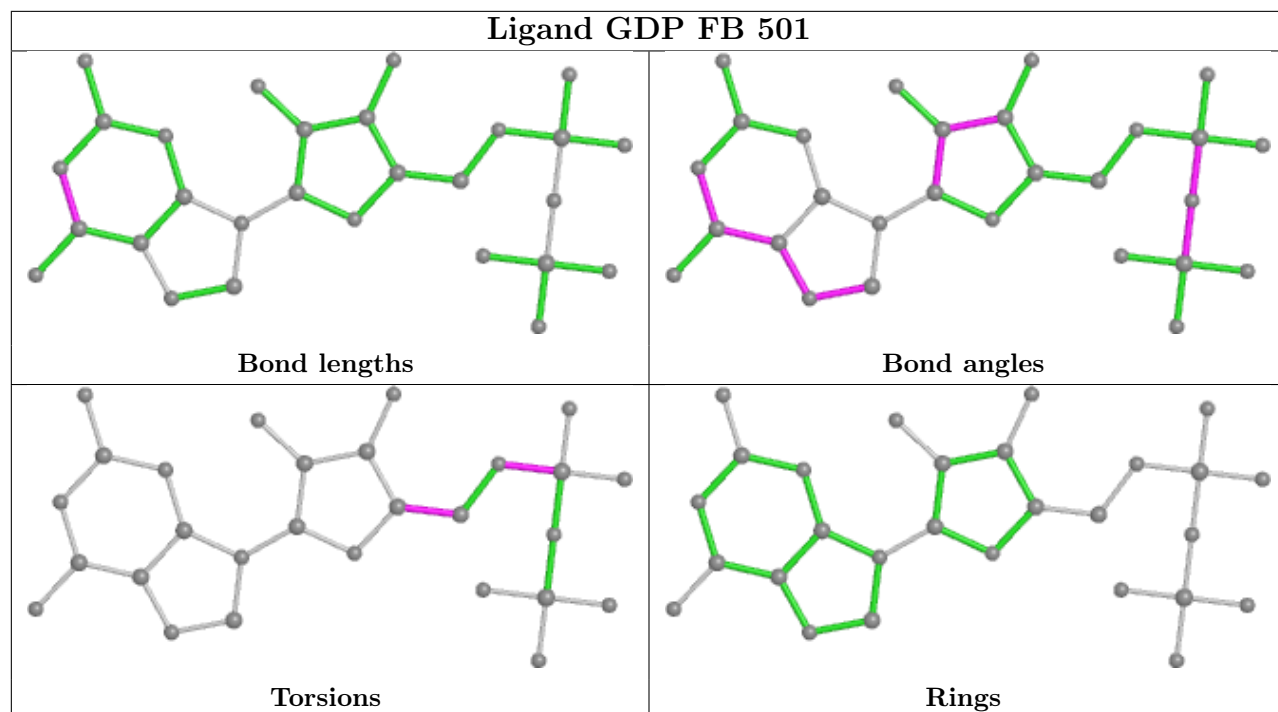
Bond angles



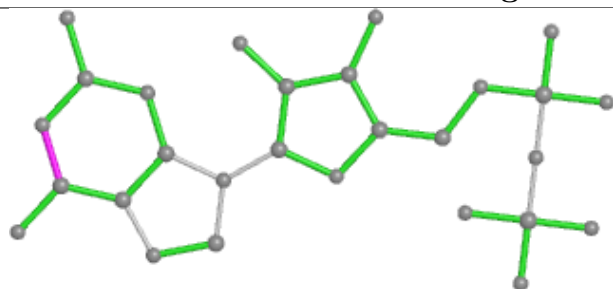
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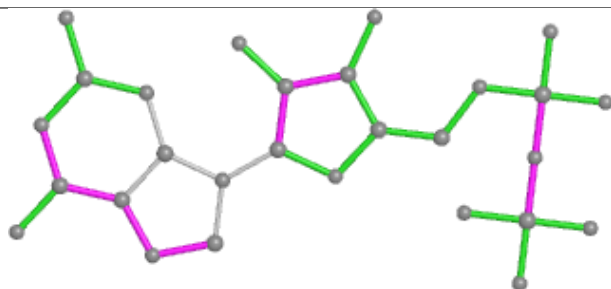
Rings



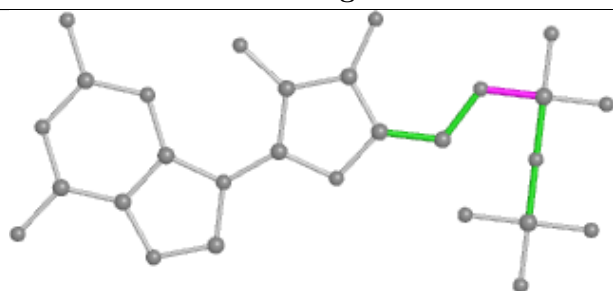
Ligand GDP SV 501



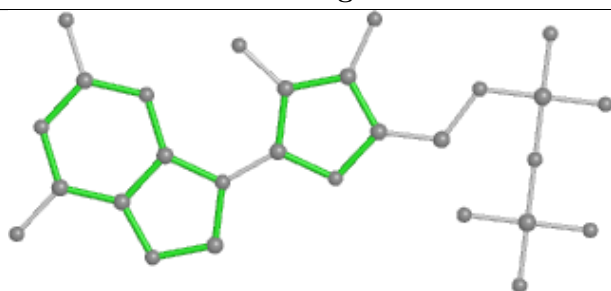
Bond lengths



Bond angles

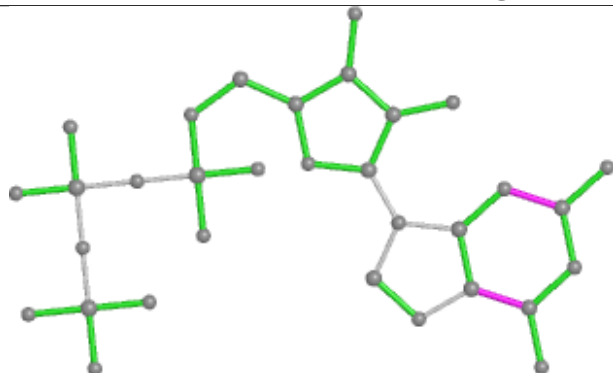


Torsions

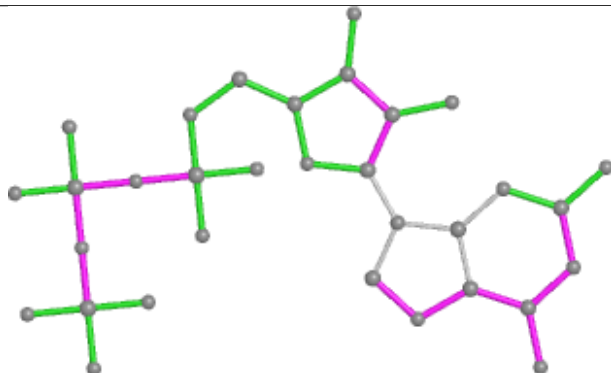


Rings

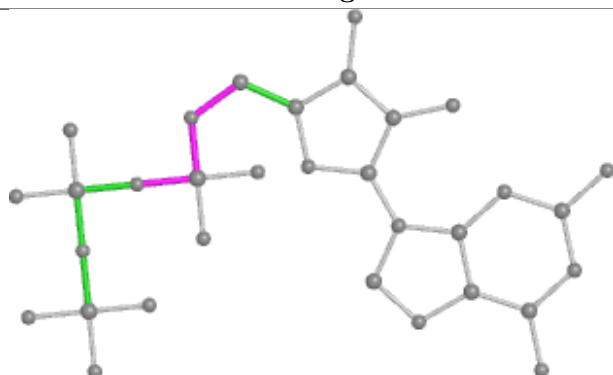
Ligand GTP GW 501



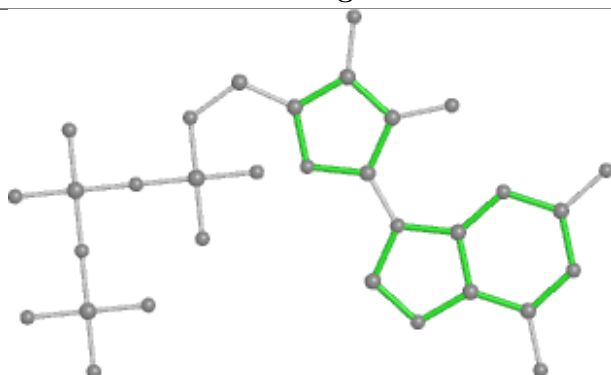
Bond lengths



Bond angles

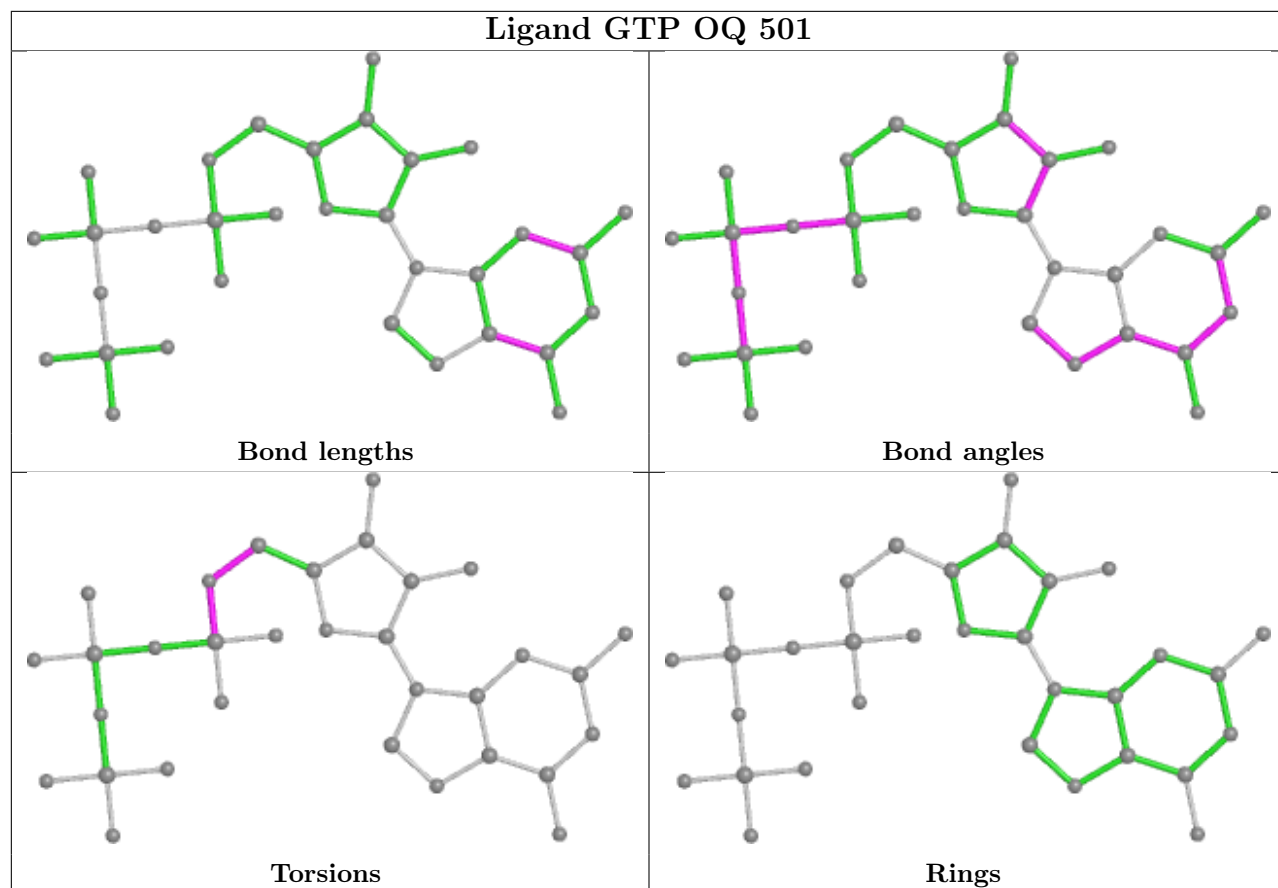


Torsions

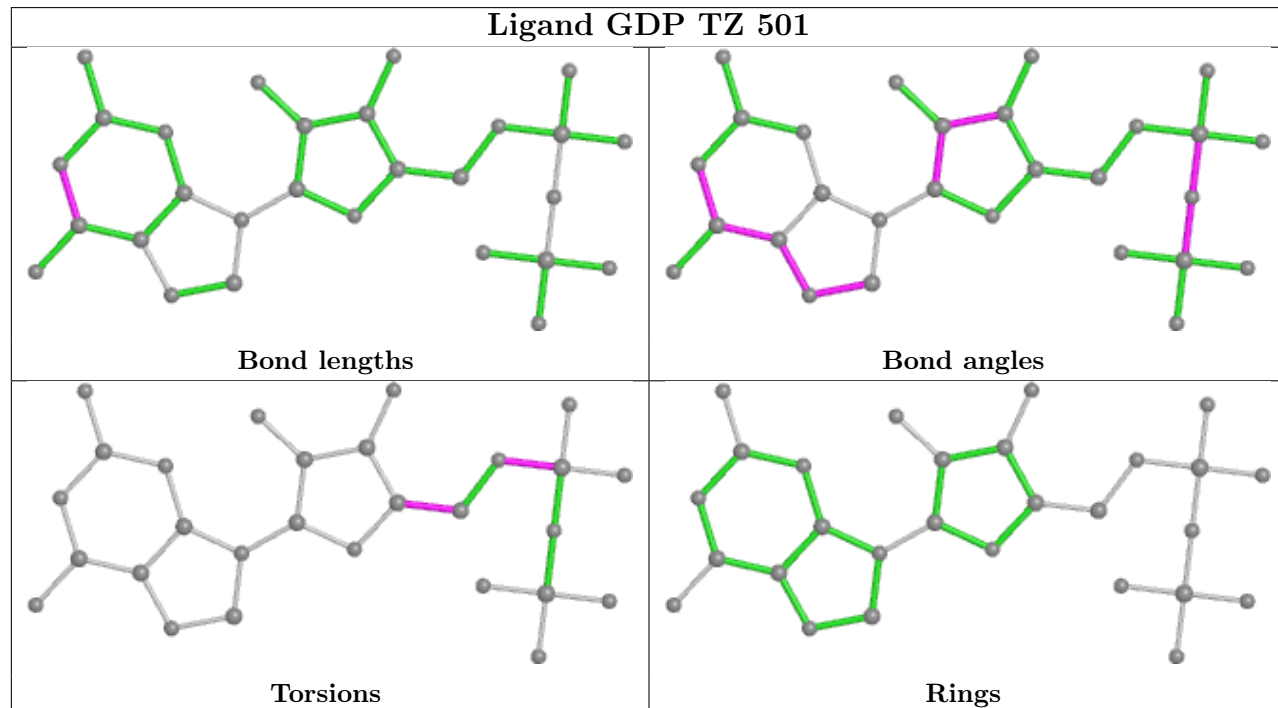


Rings

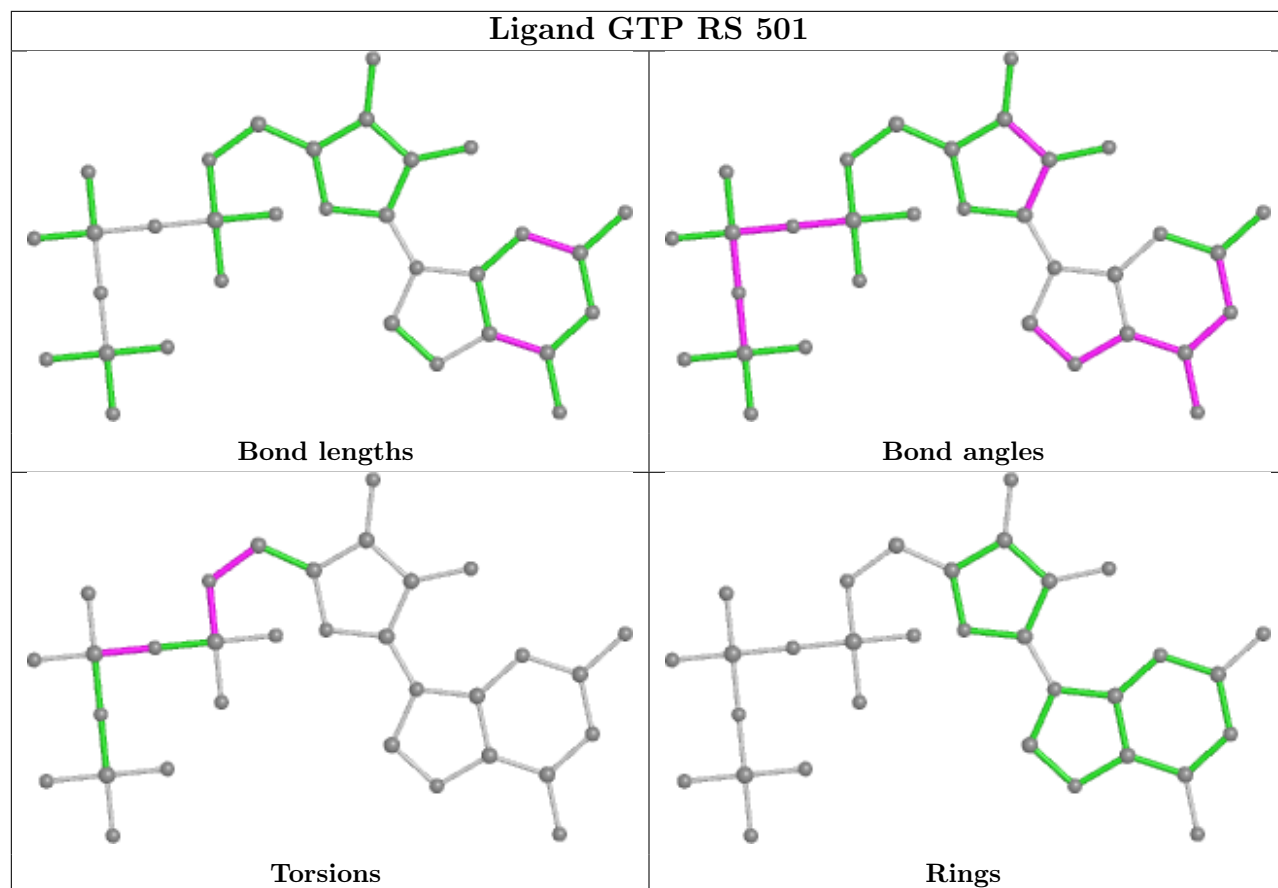
Ligand GTP OQ 501



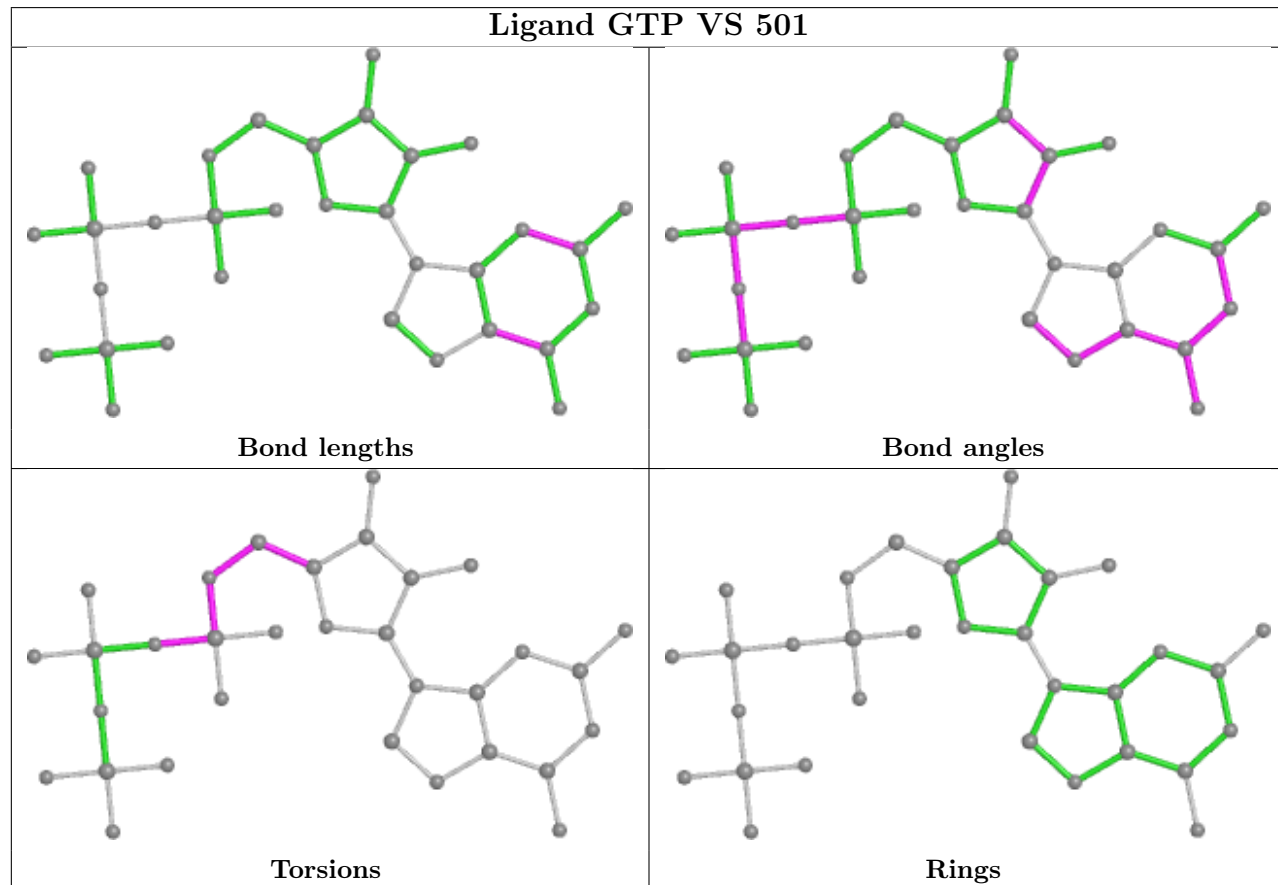
Ligand GDP TZ 501



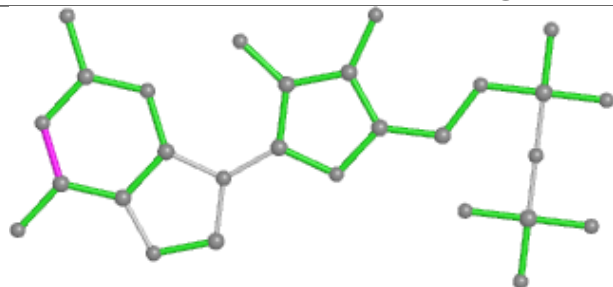
Ligand GTP RS 501



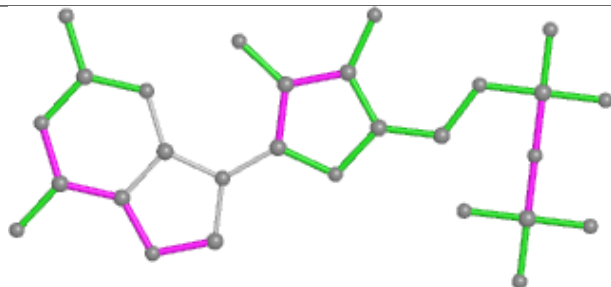
Ligand GTP VS 501



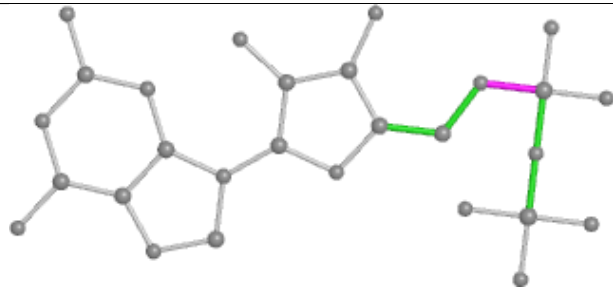
Ligand GDP NR 501



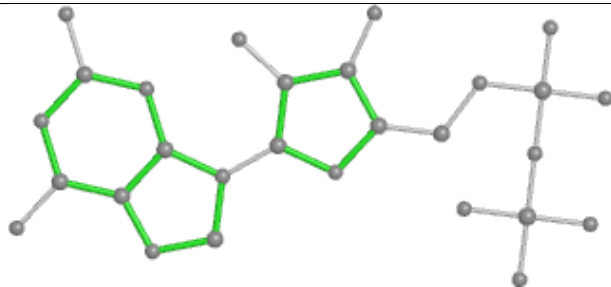
Bond lengths



Bond angles

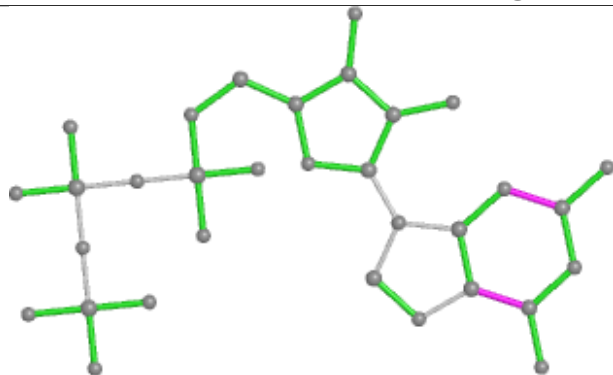


Torsions

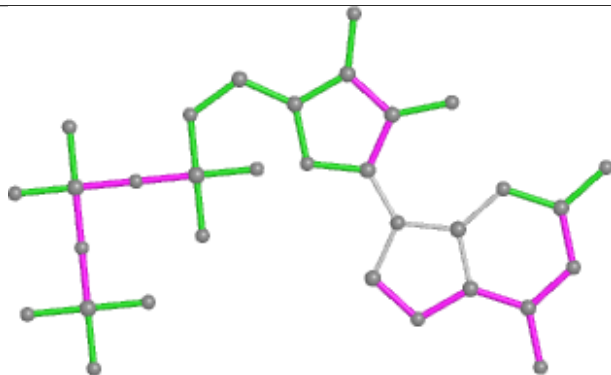


Rings

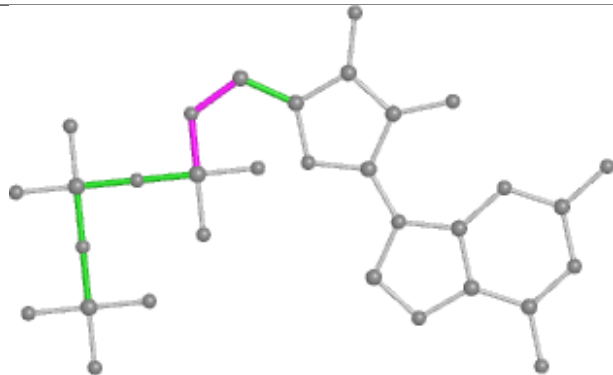
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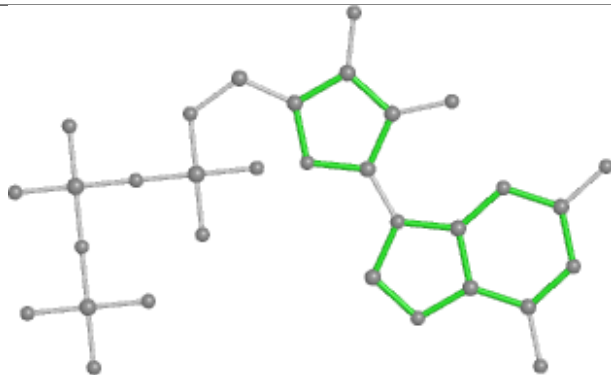
Bond lengths



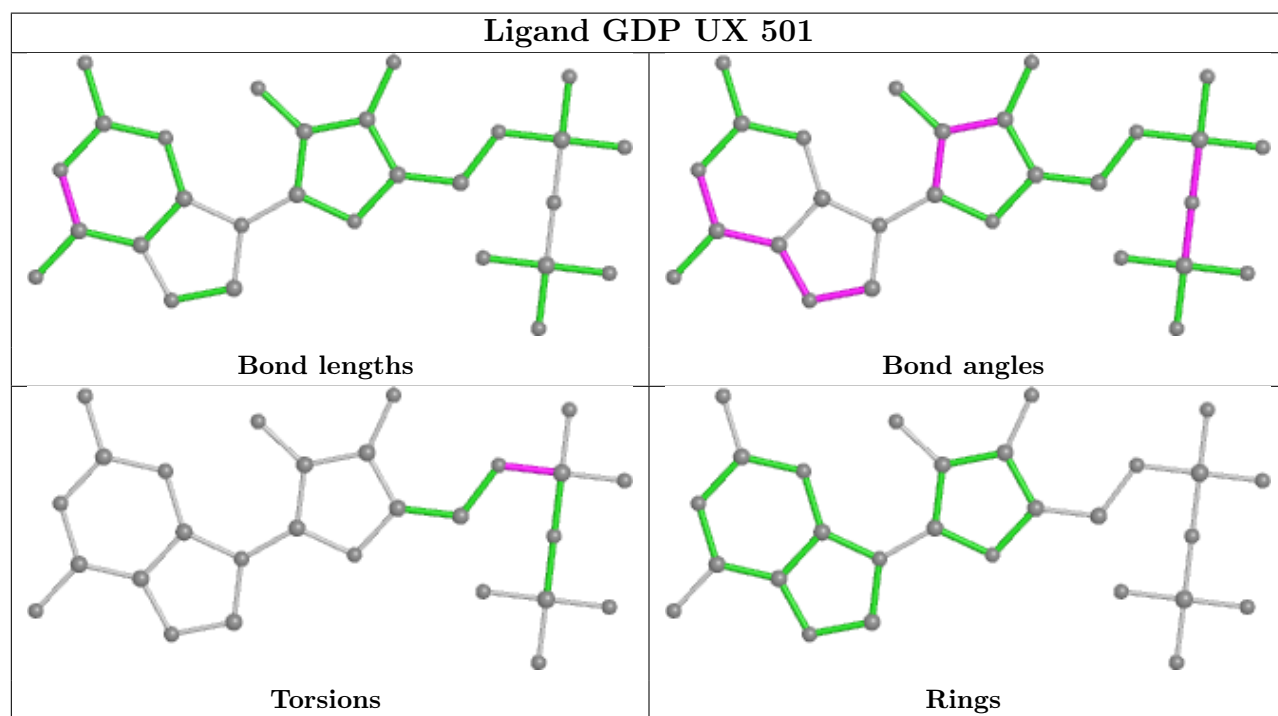
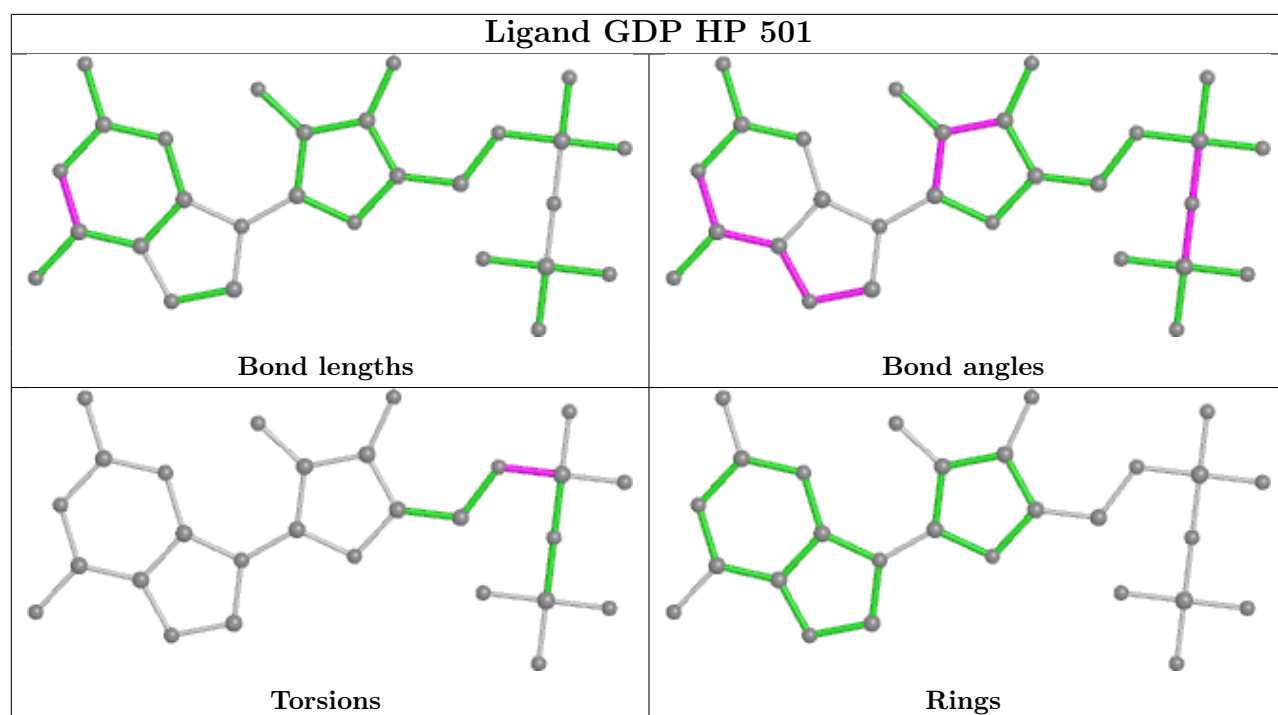
Bond angles



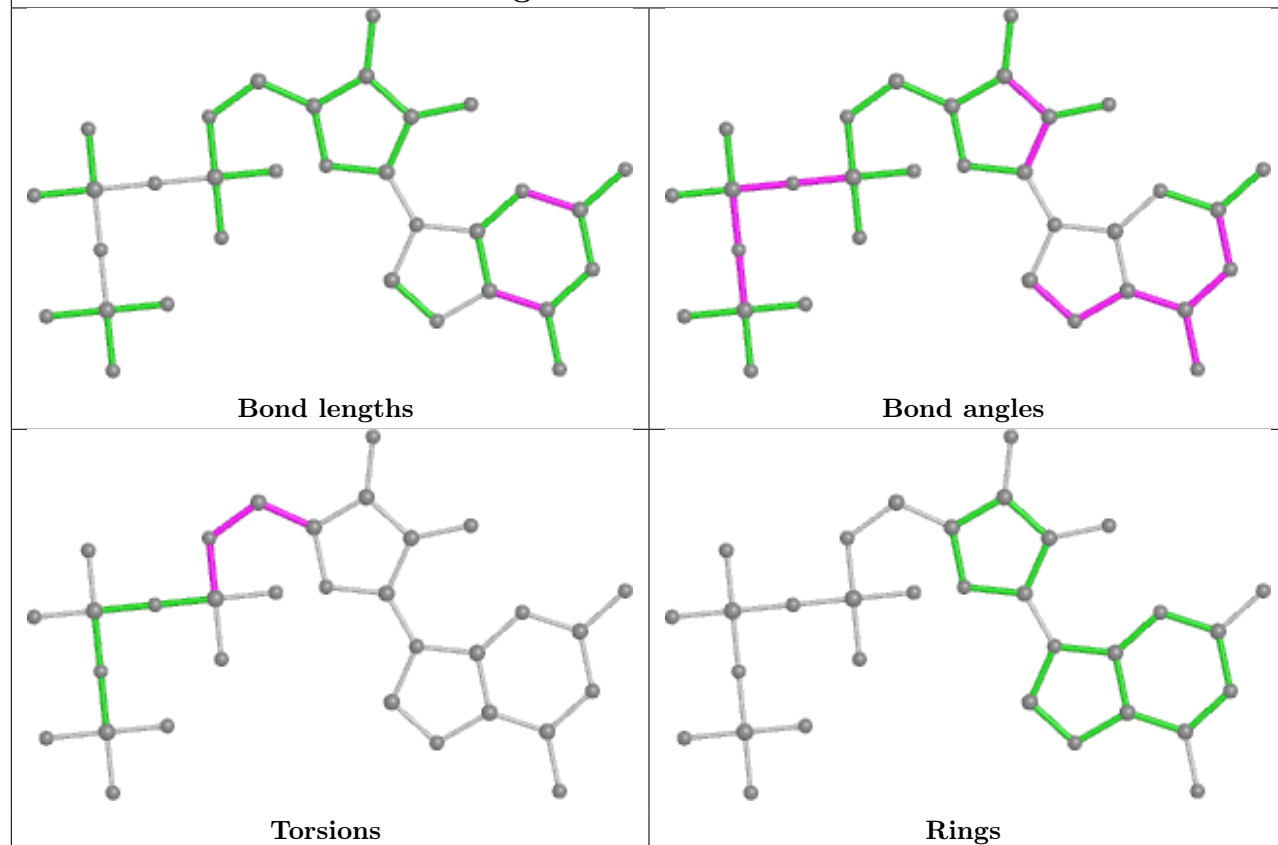
Torsions



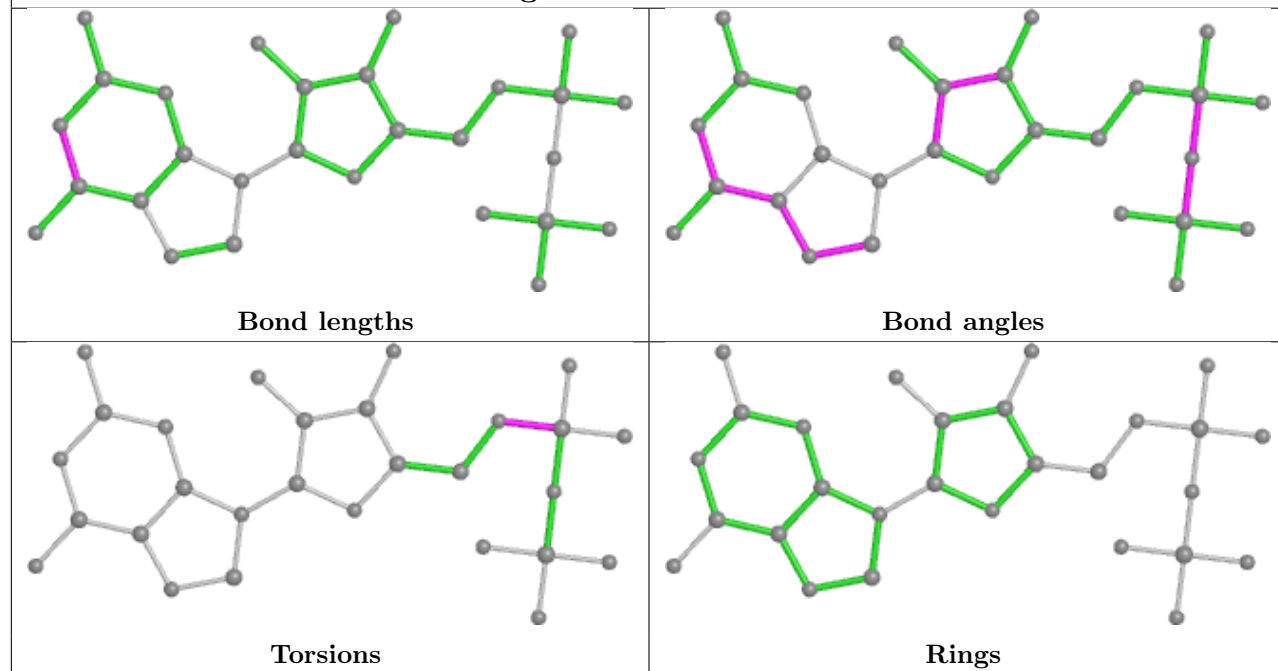
Rings

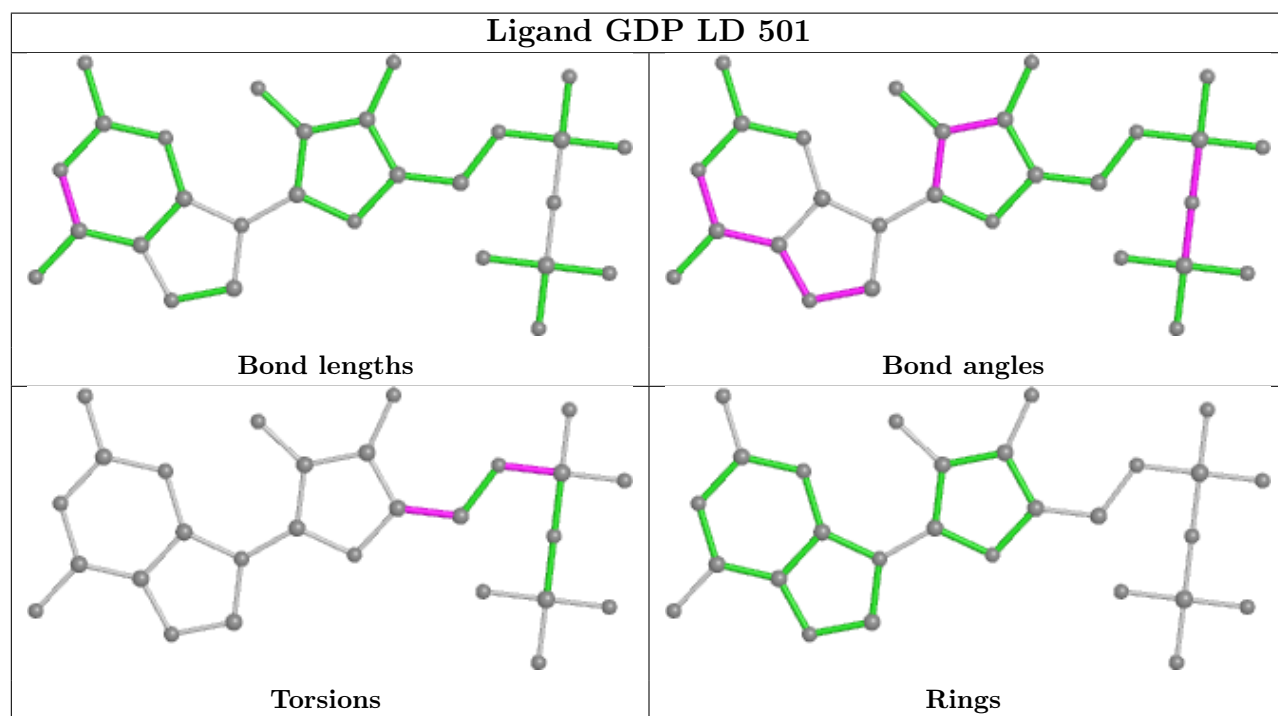
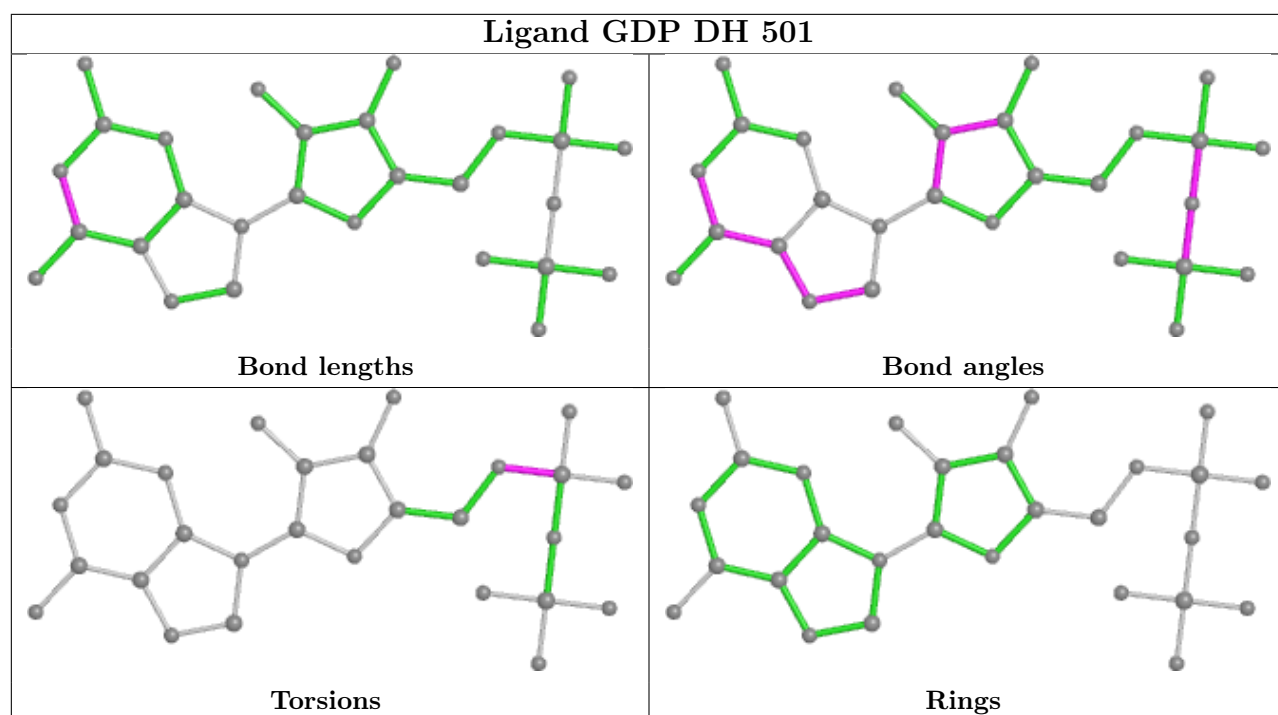


Ligand GTP OM 501

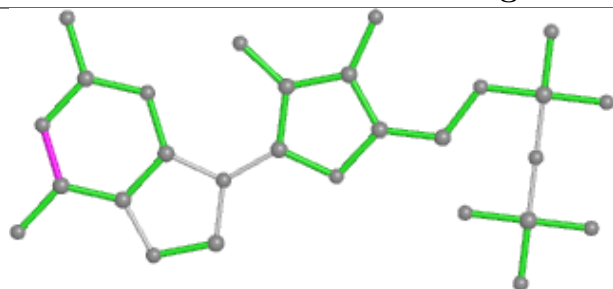


Ligand GDP FF 501

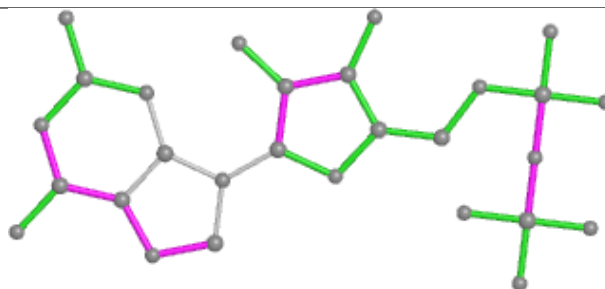




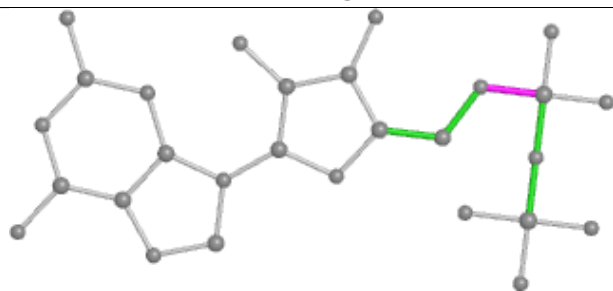
Ligand GDP DL 501



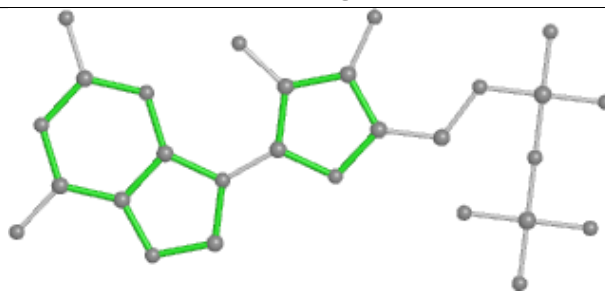
Bond lengths



Bond angles

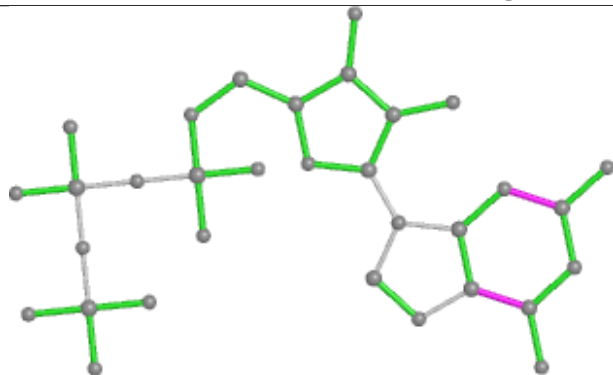


Torsions

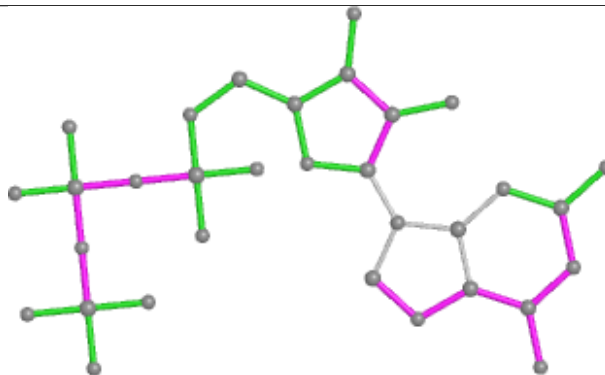


Rings

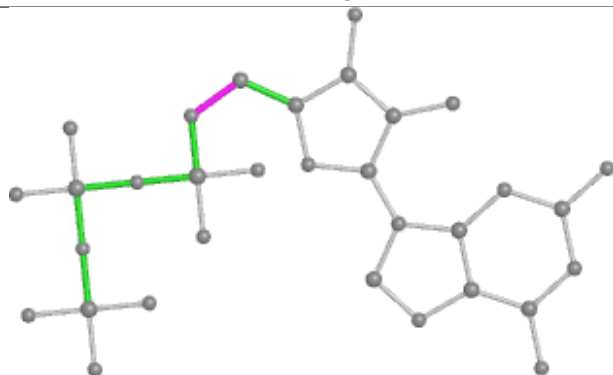
Ligand GTP EU 501



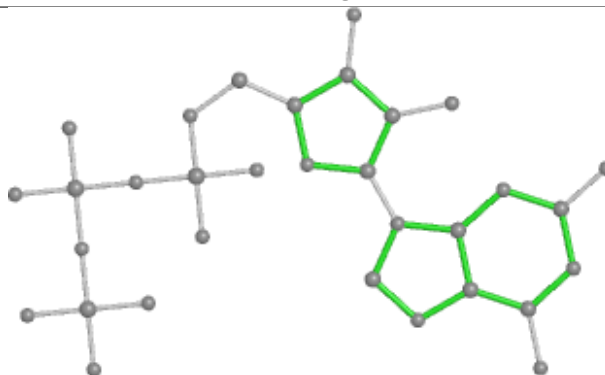
Bond lengths



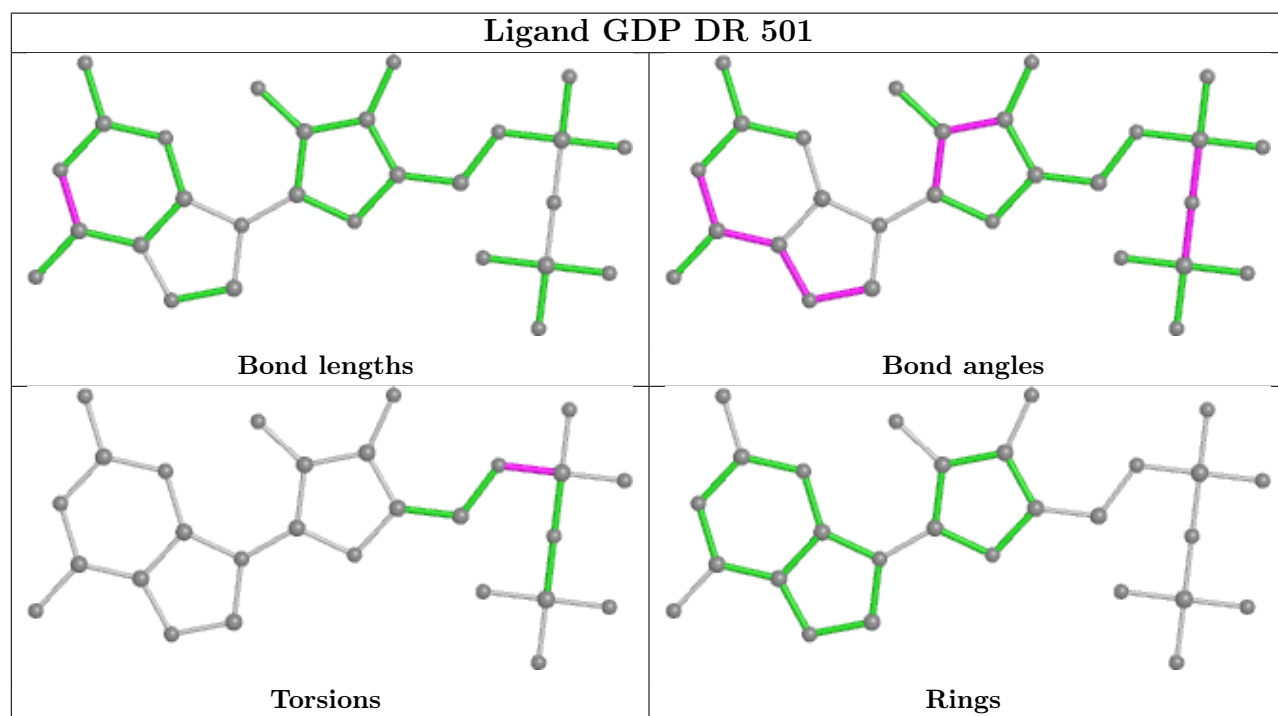
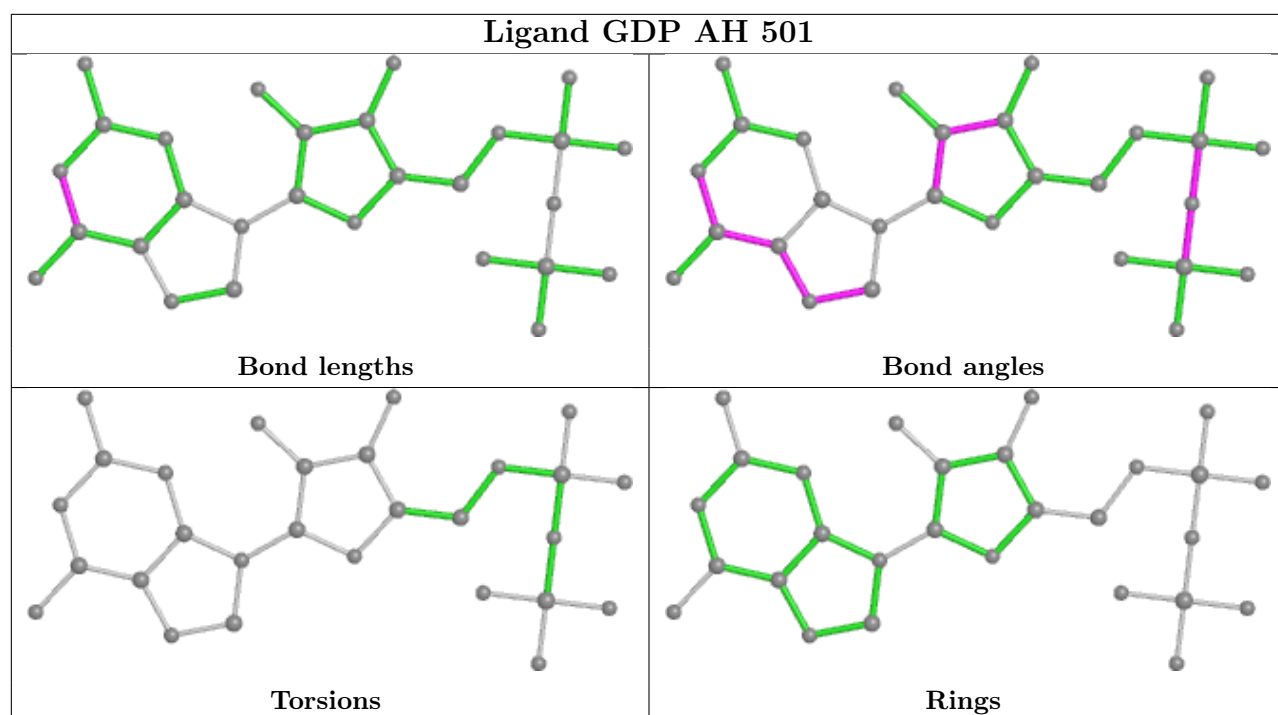
Bond angles



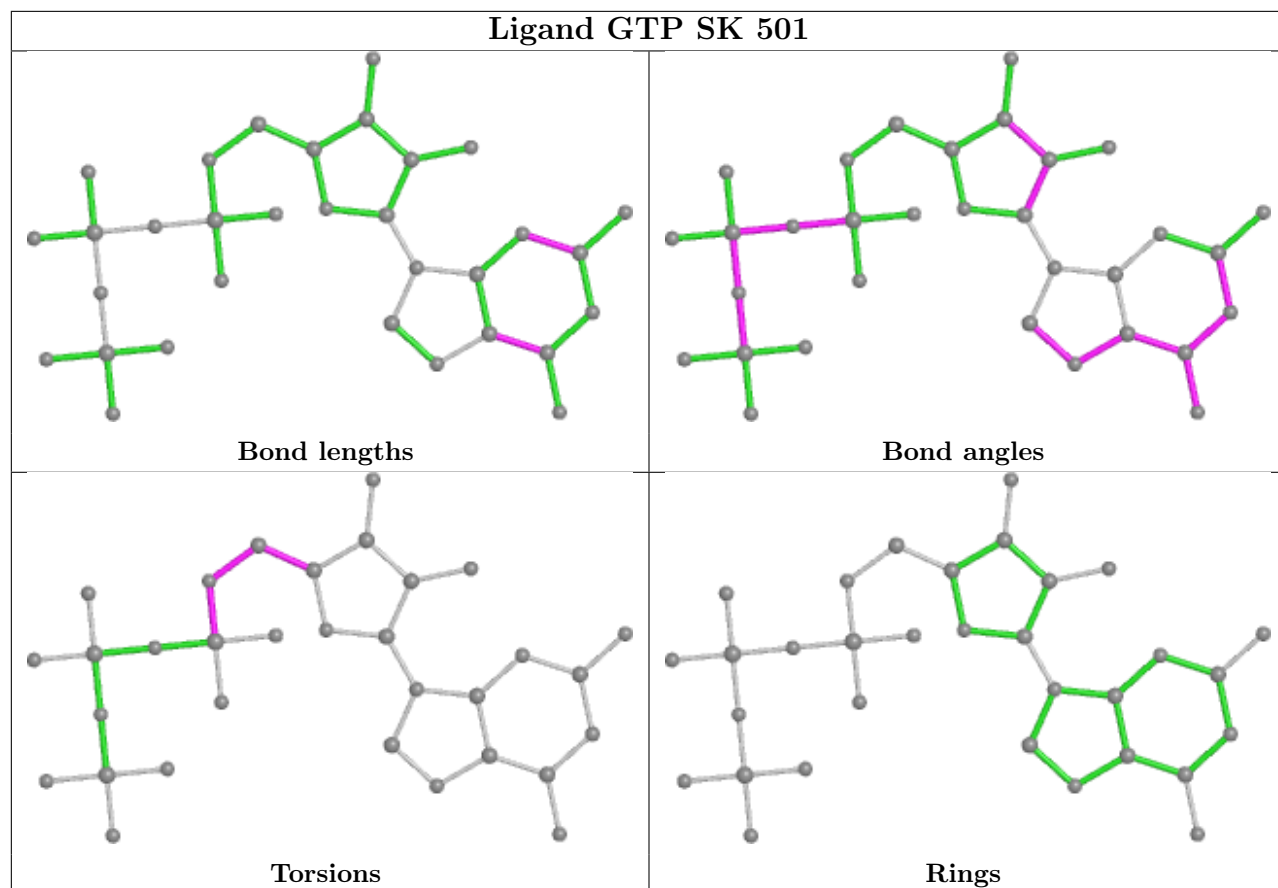
Torsions



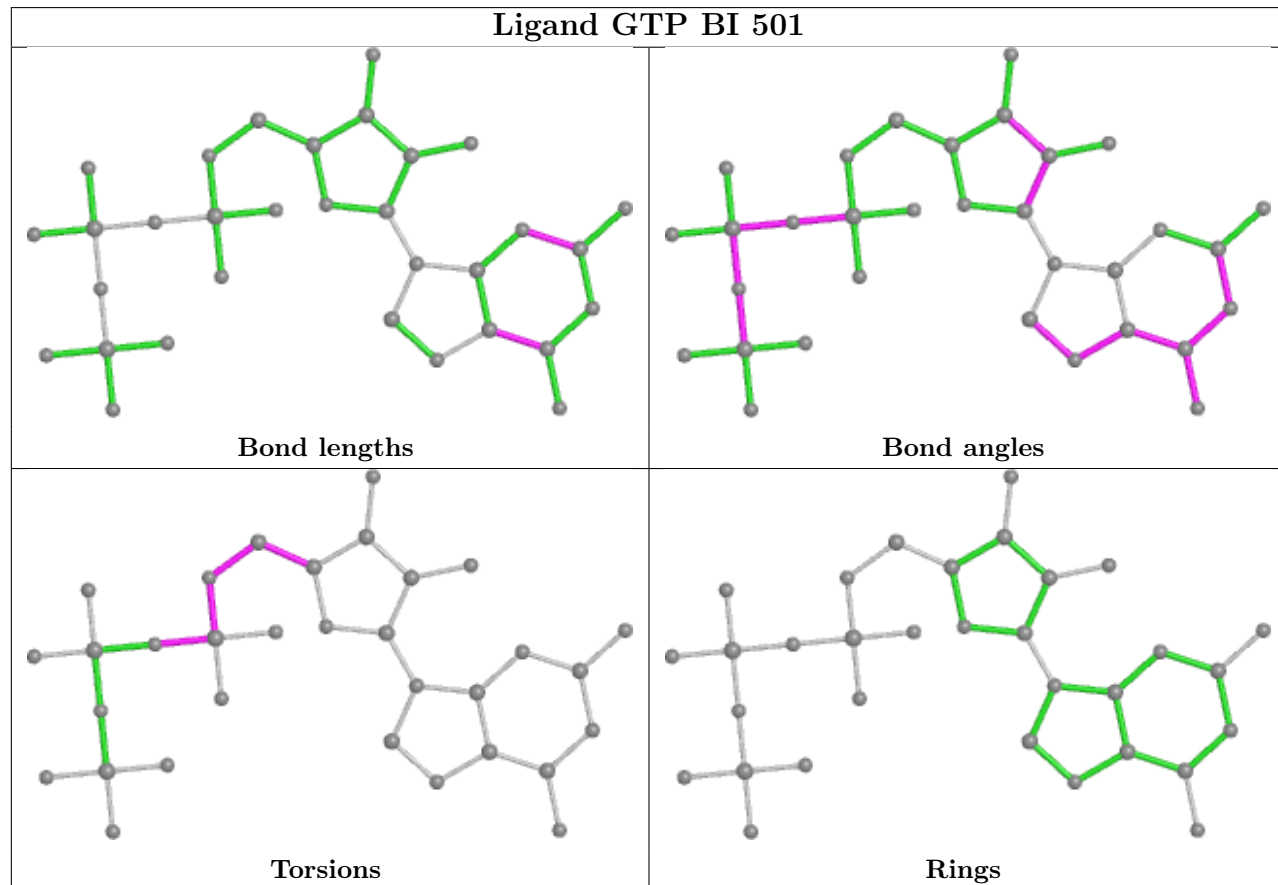
Rings



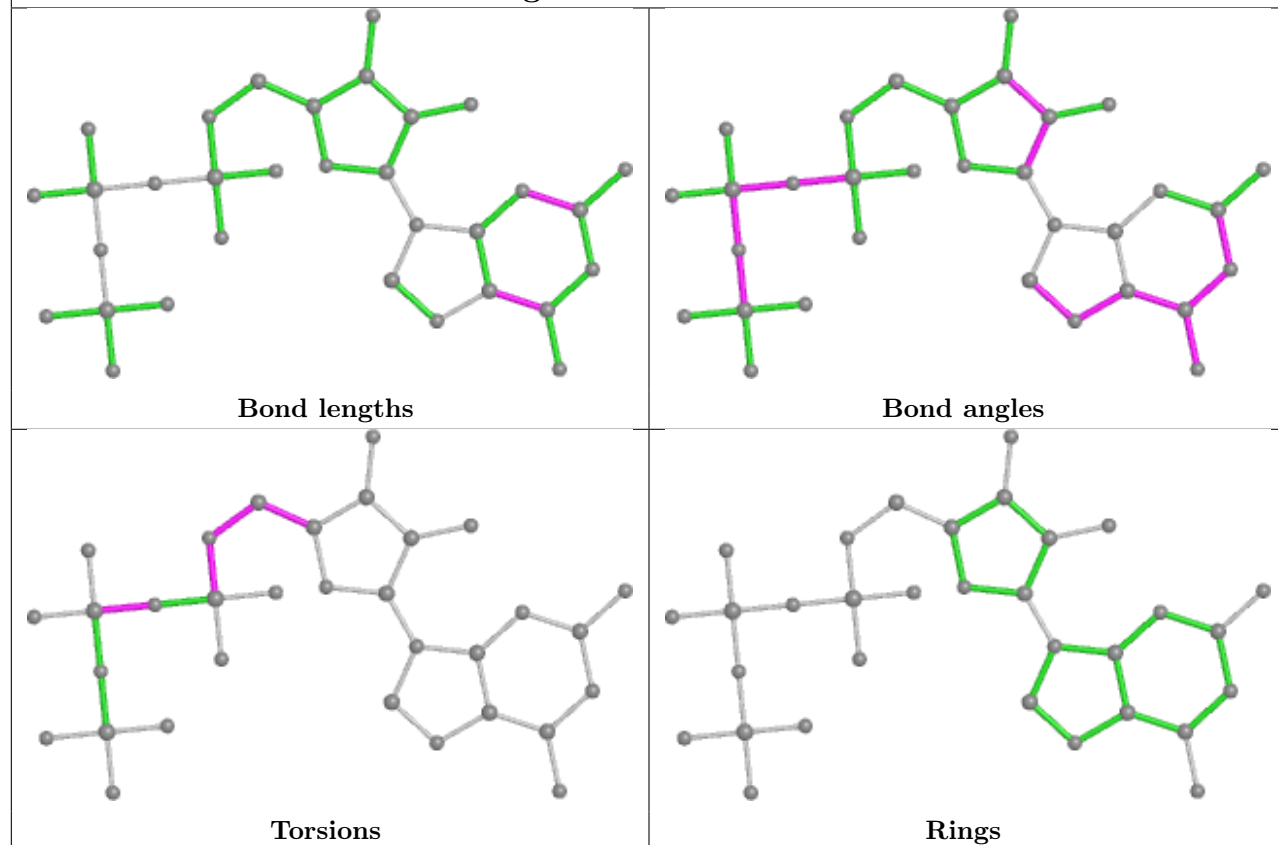
Ligand GTP SK 501



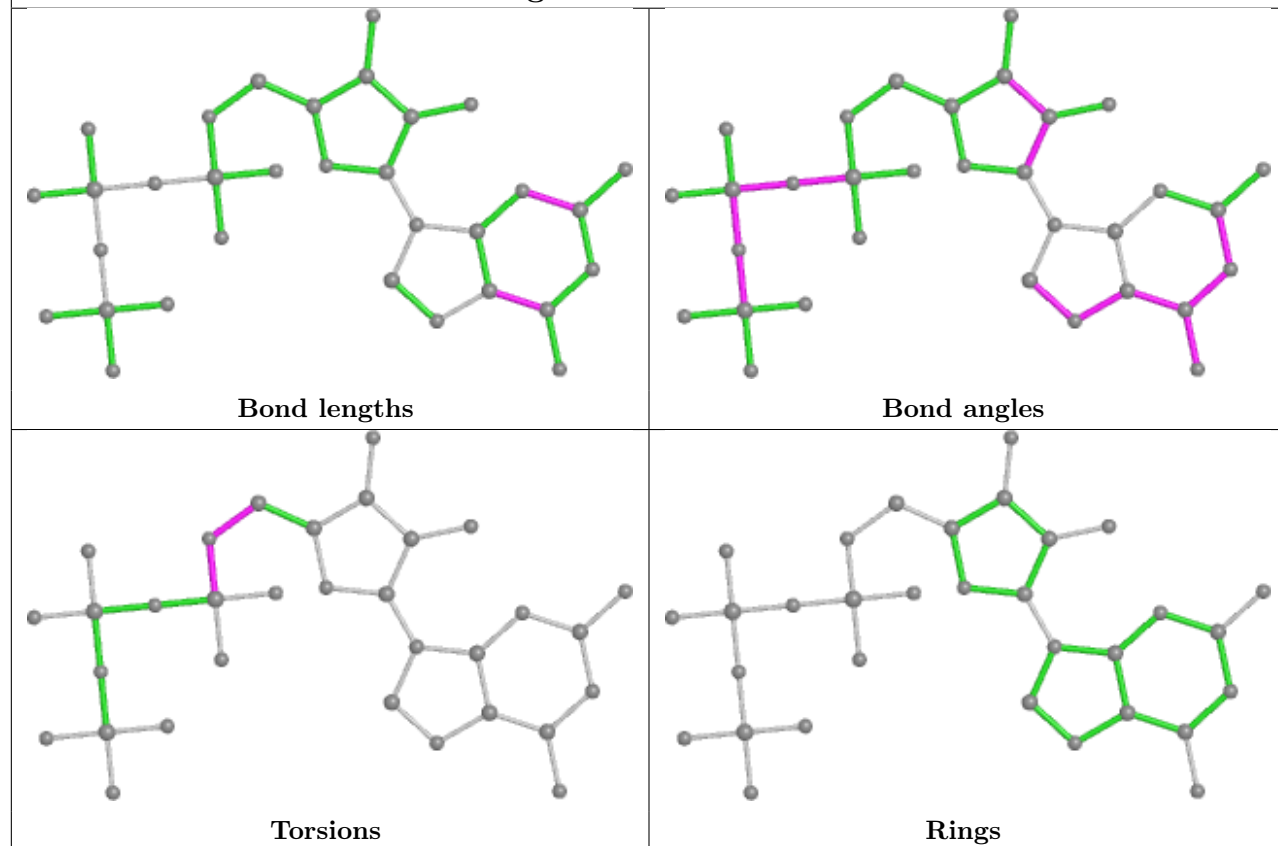
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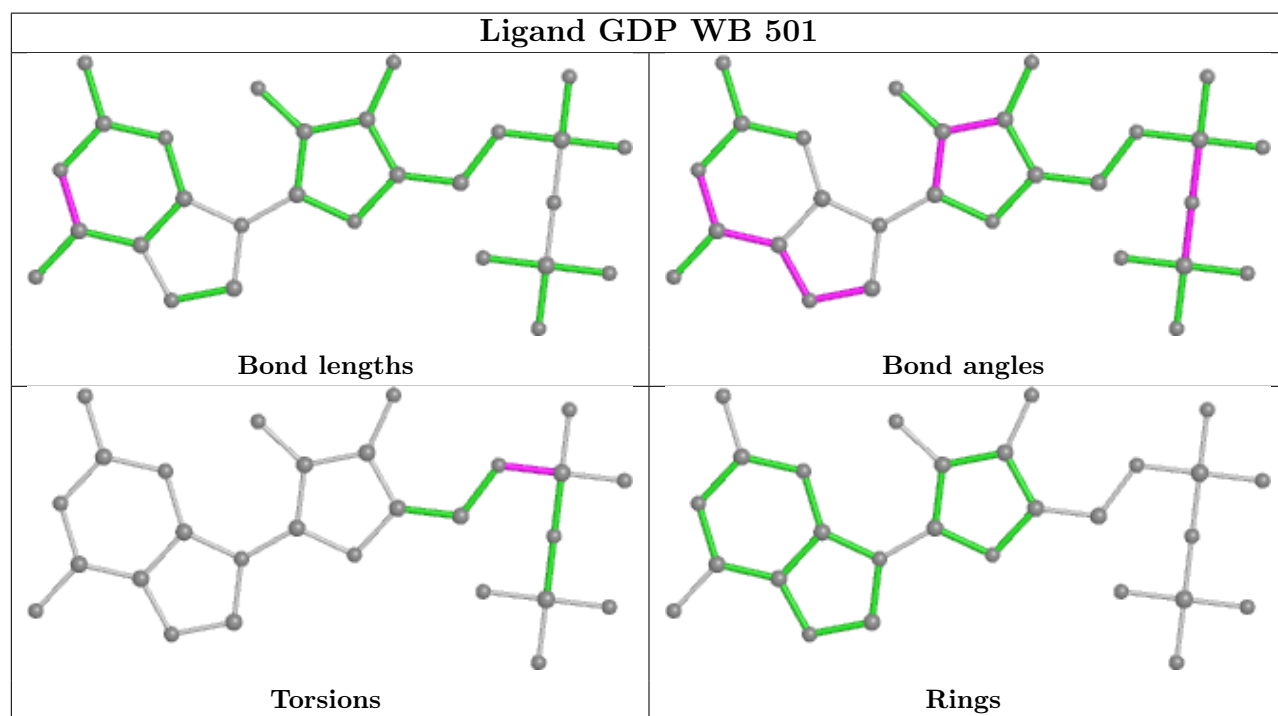
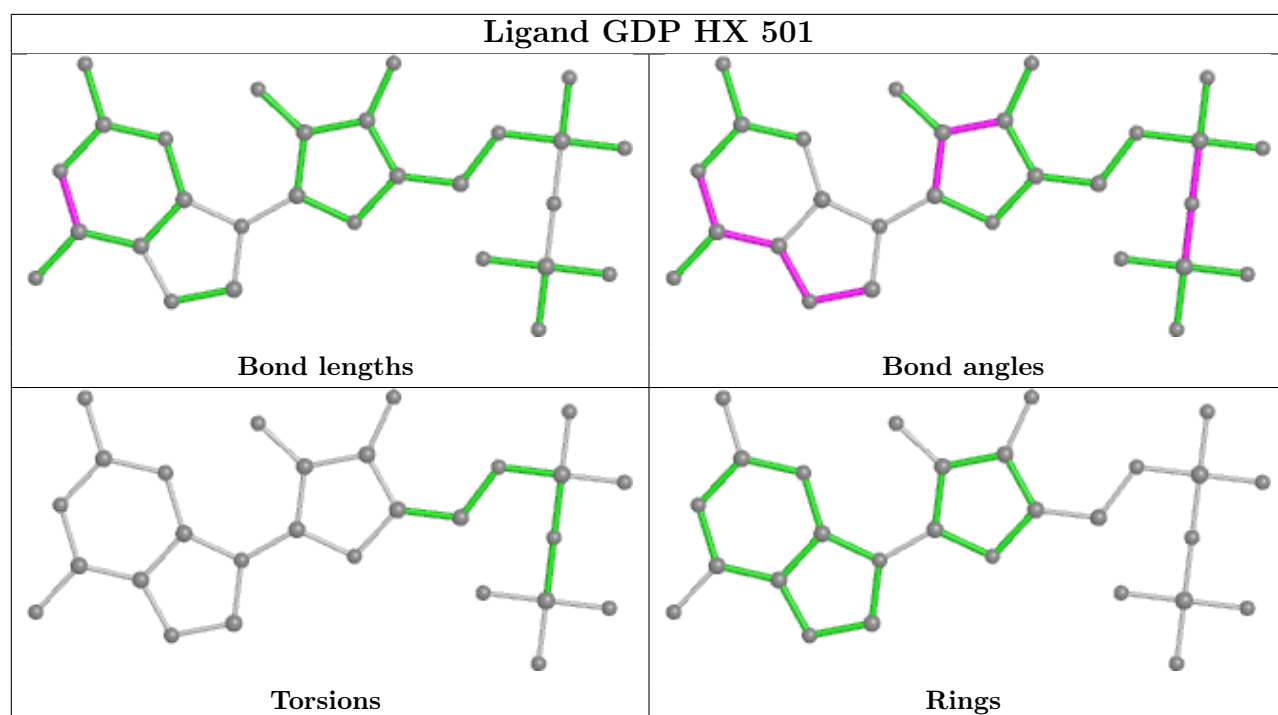


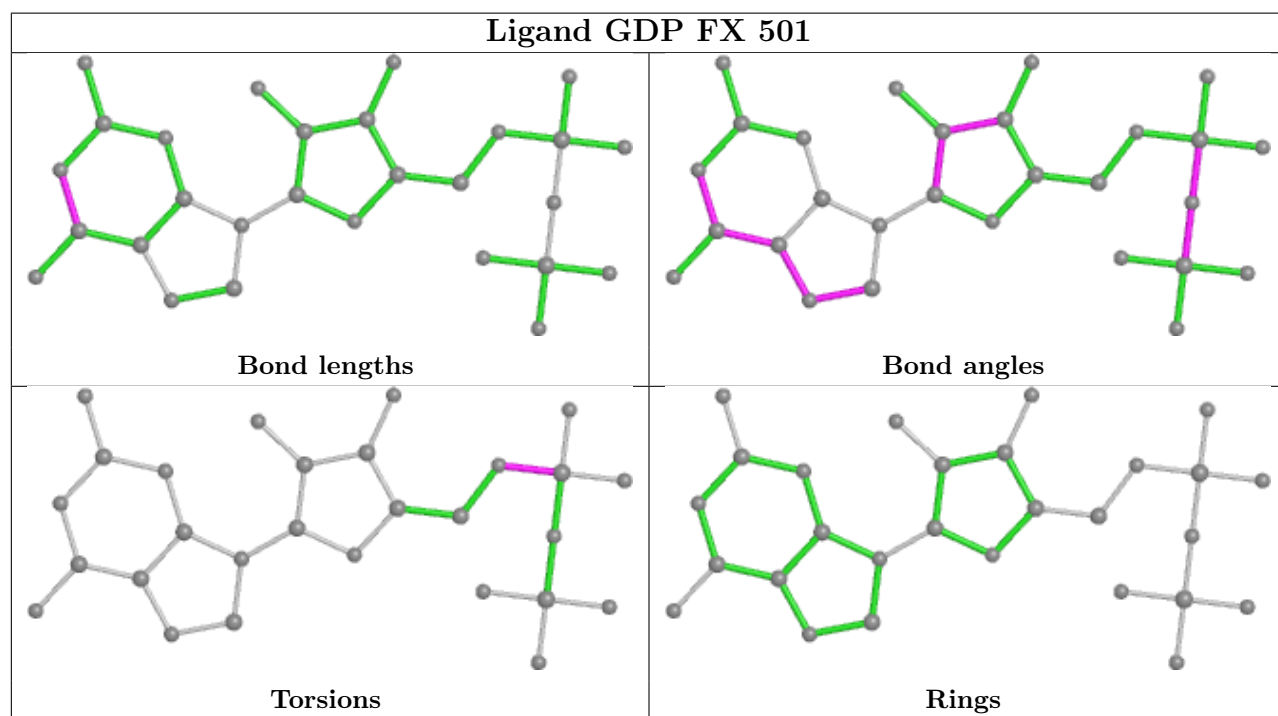
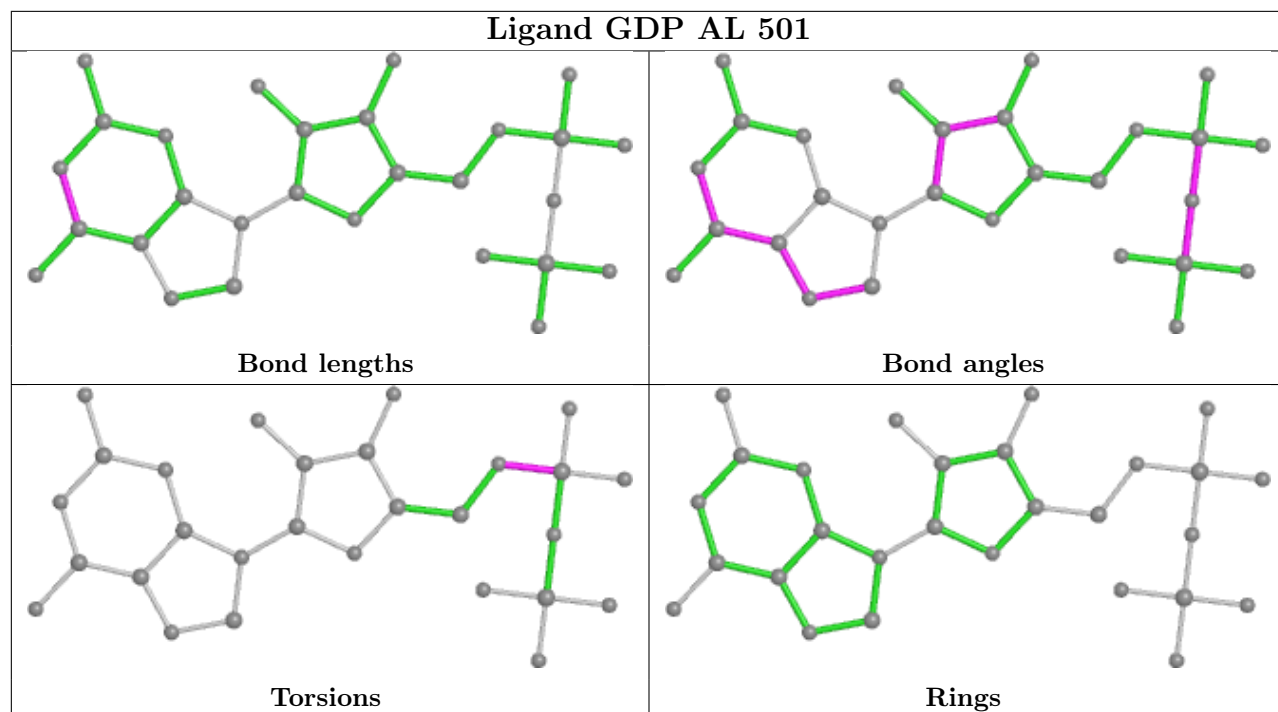
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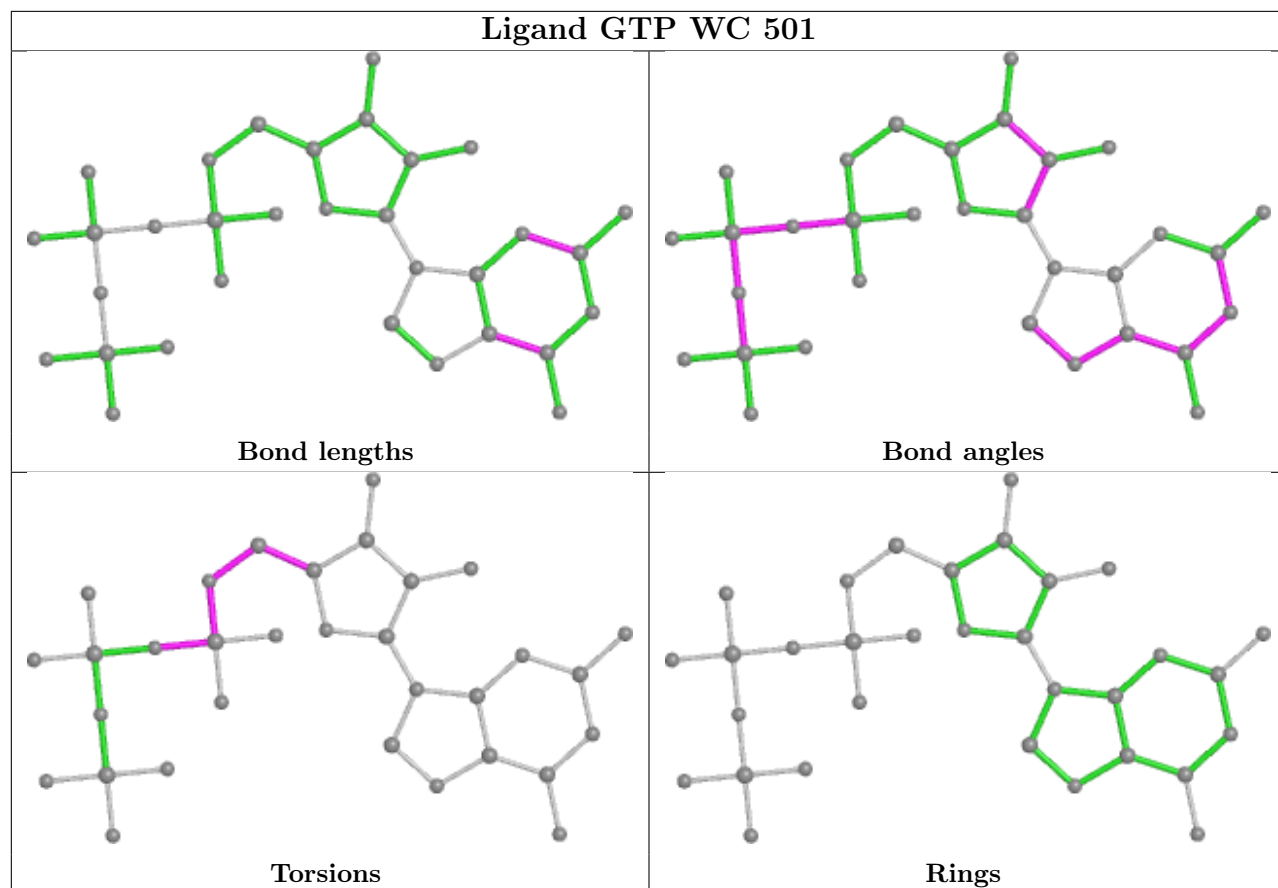
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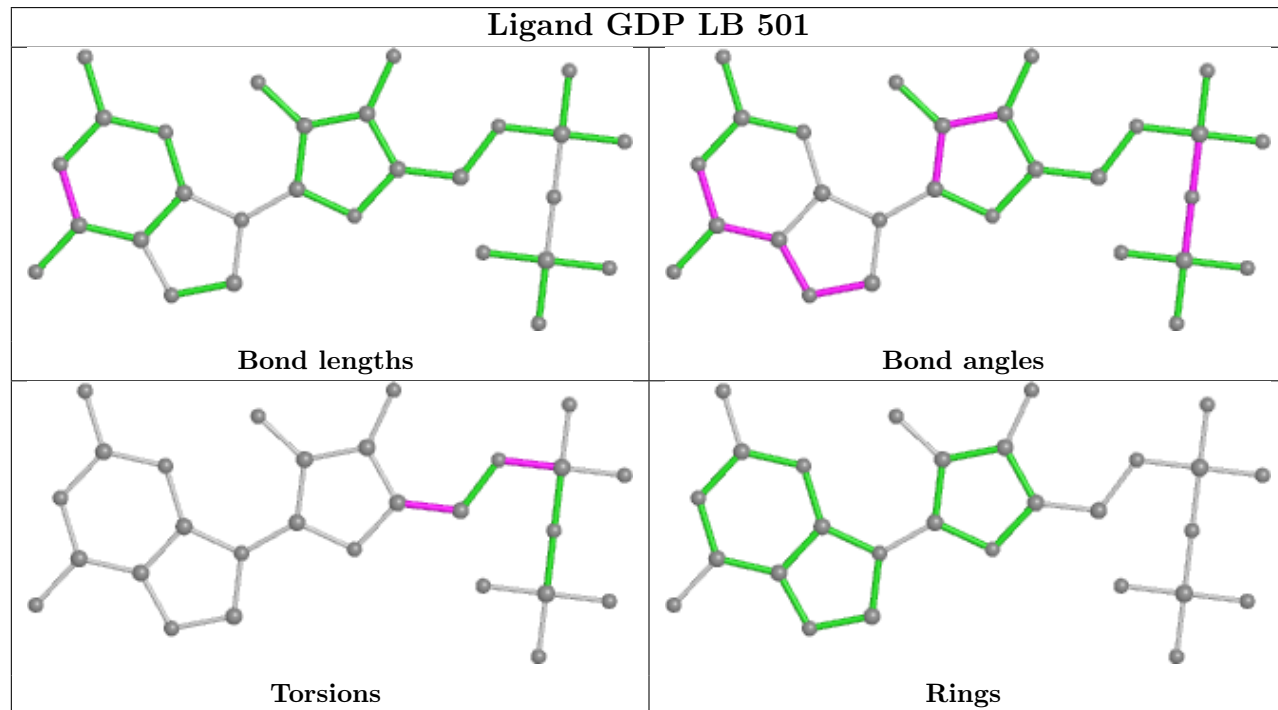




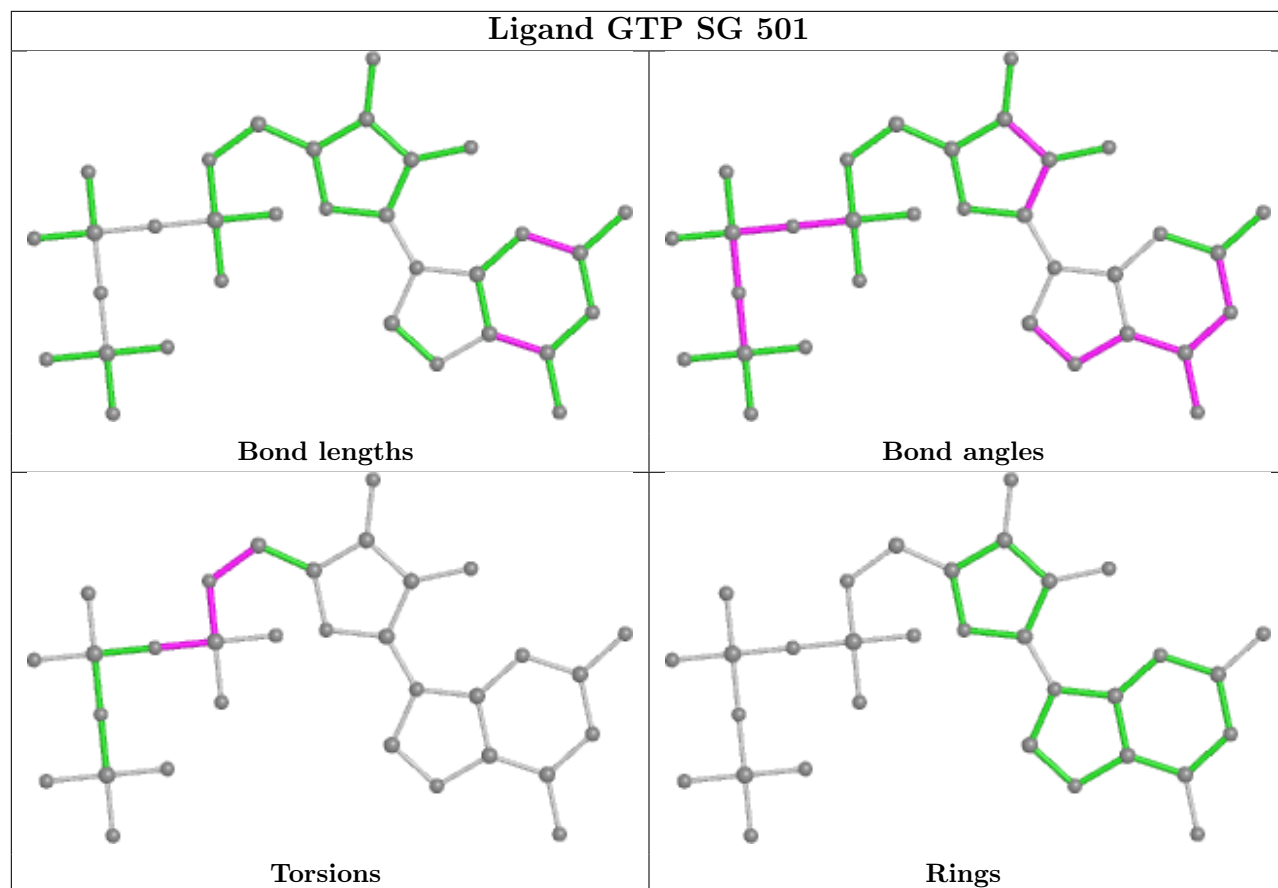
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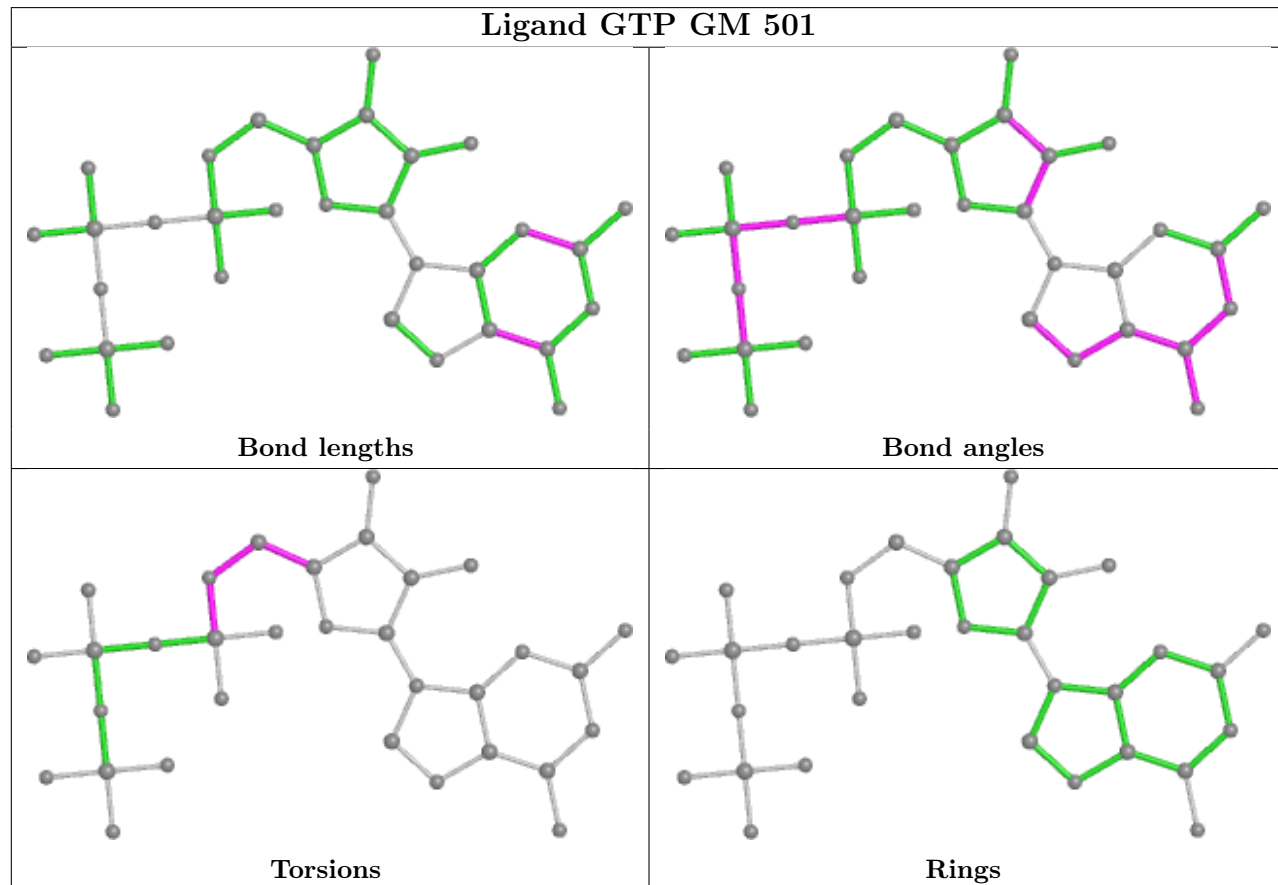
Ligand GDP LB 501

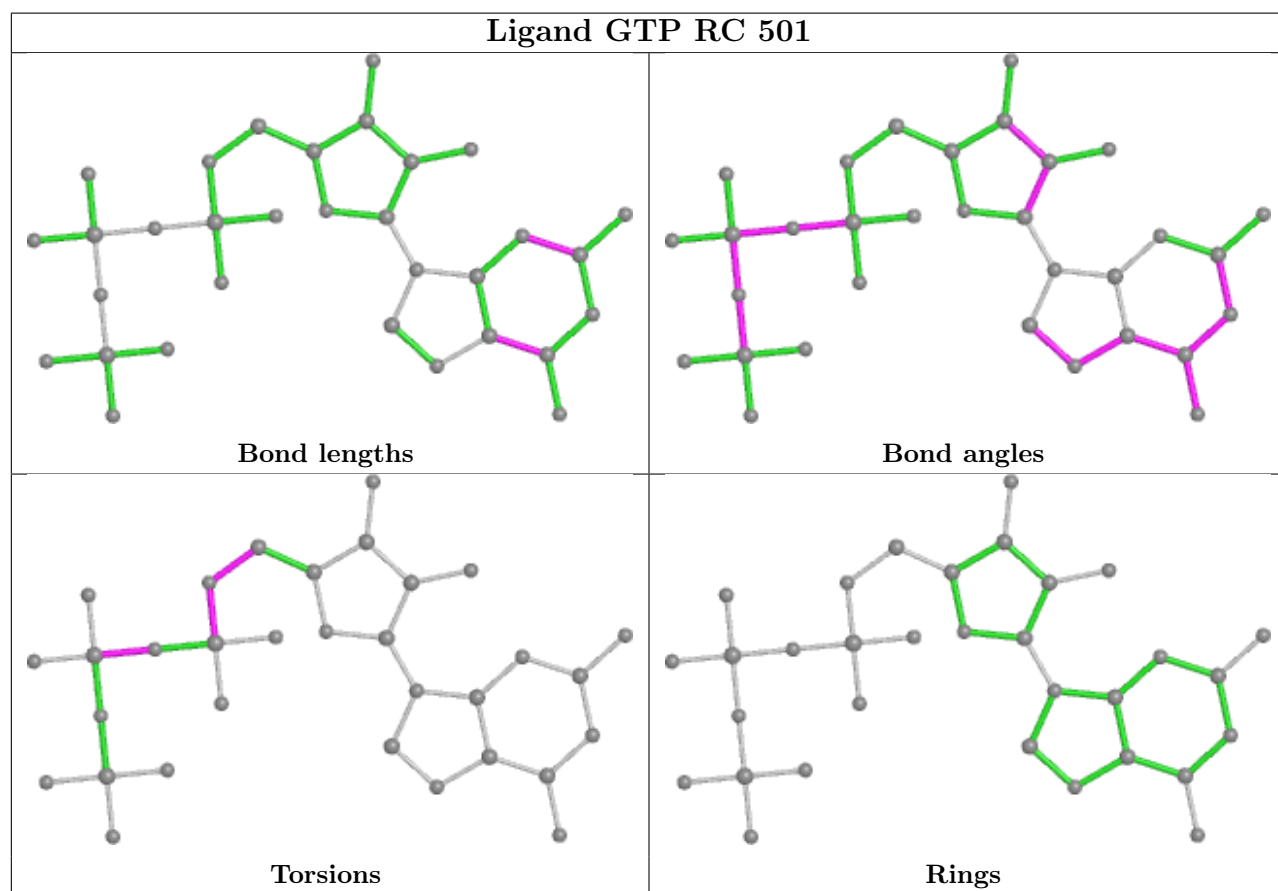
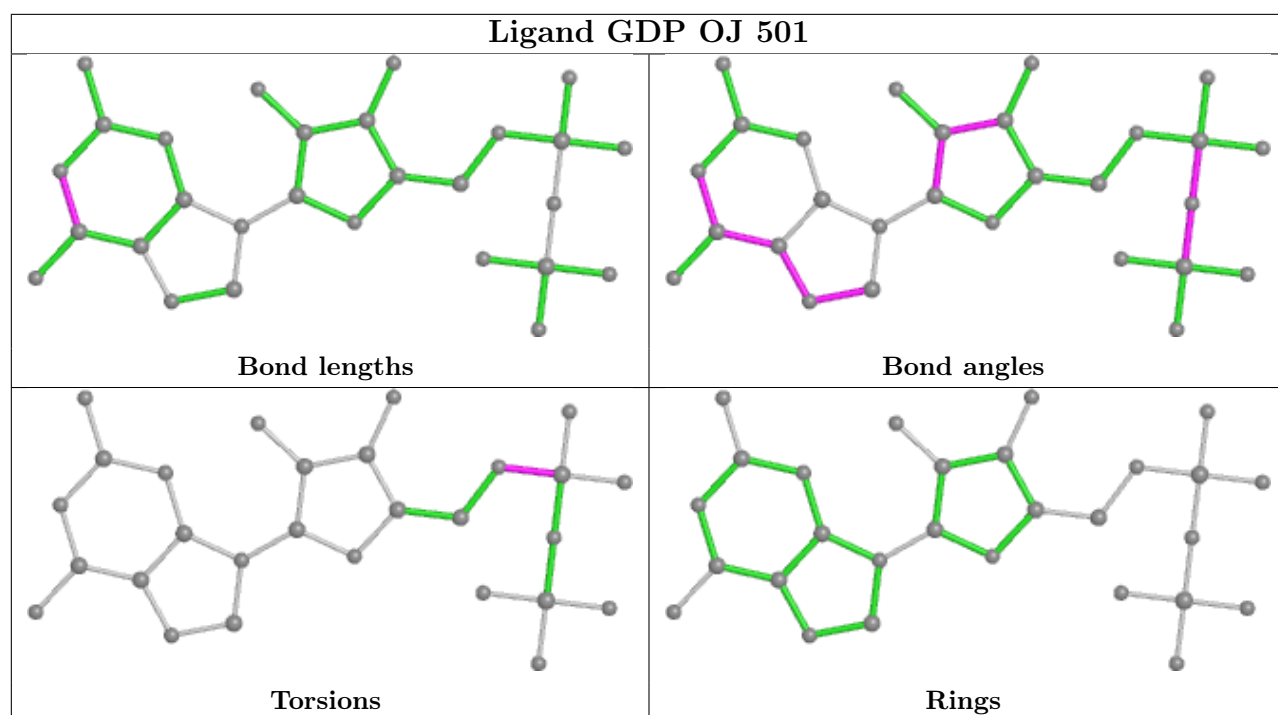


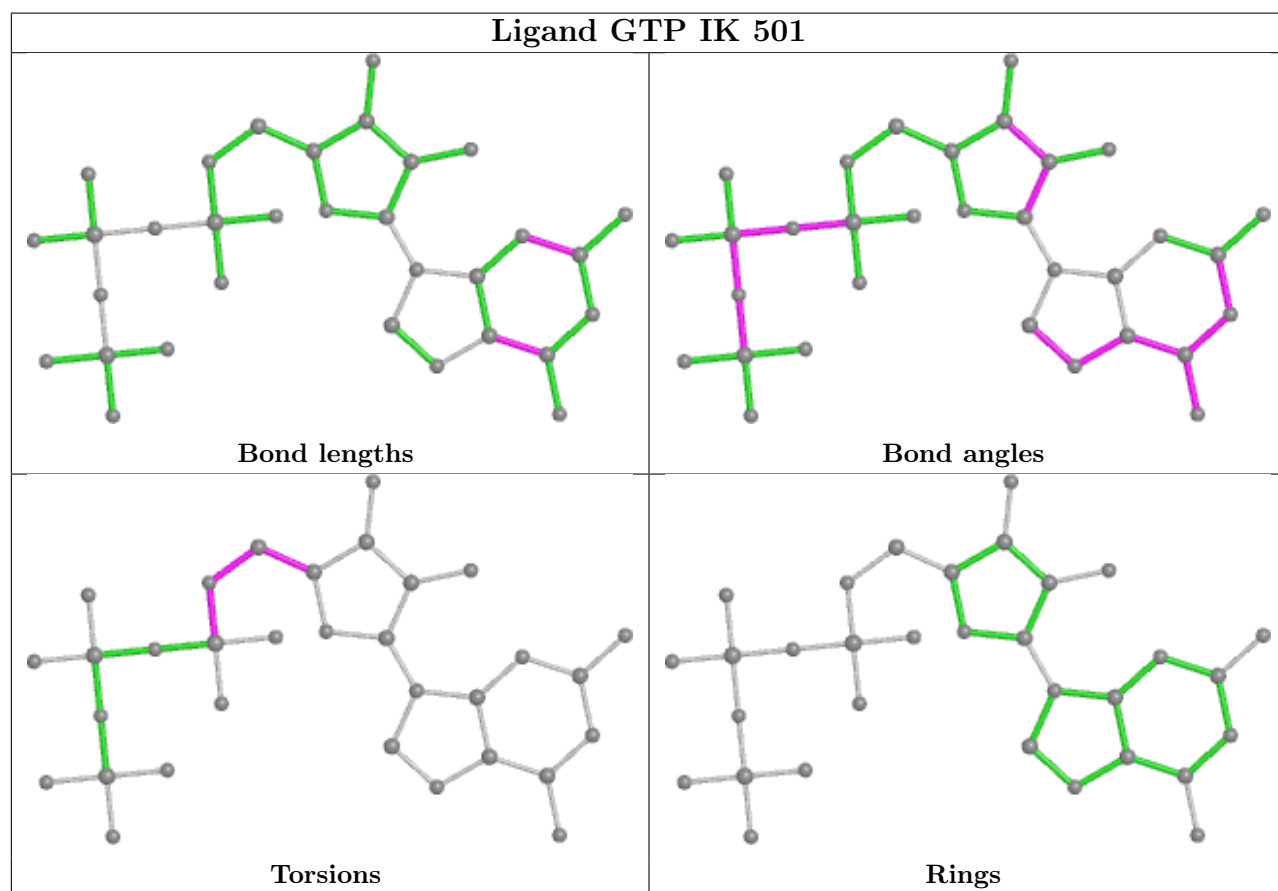
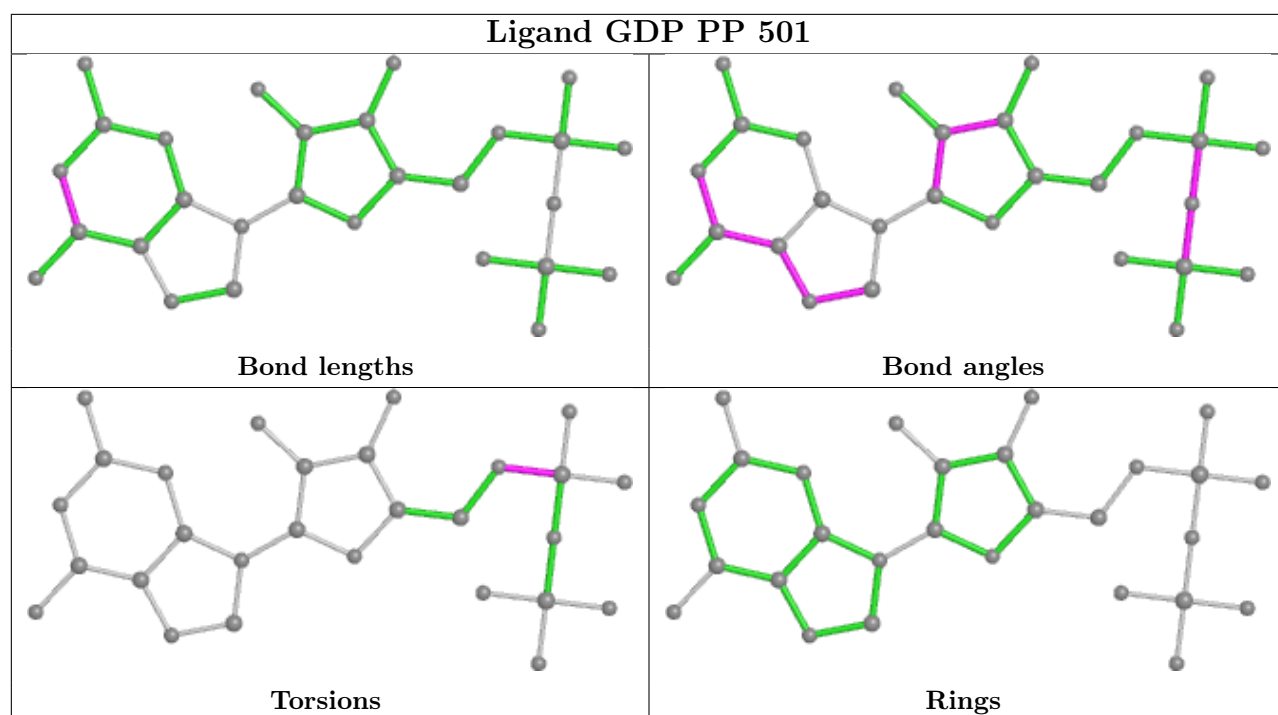
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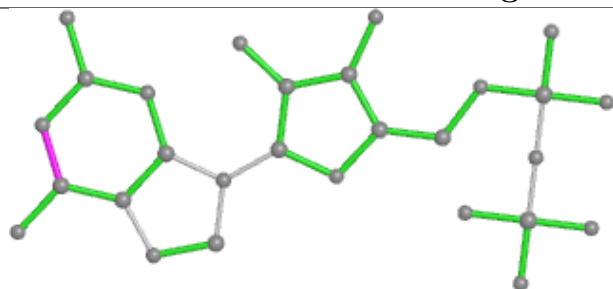
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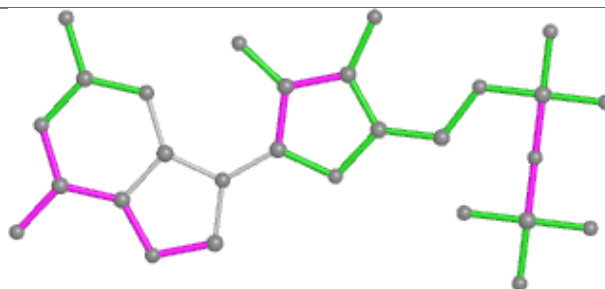




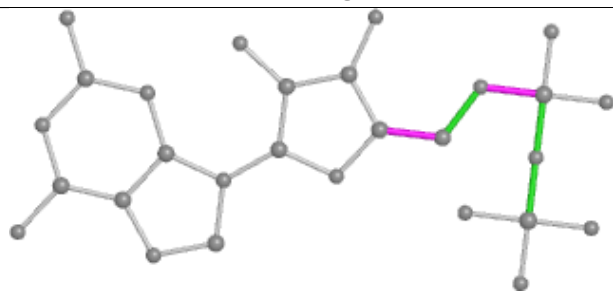
Ligand GDP TL 501



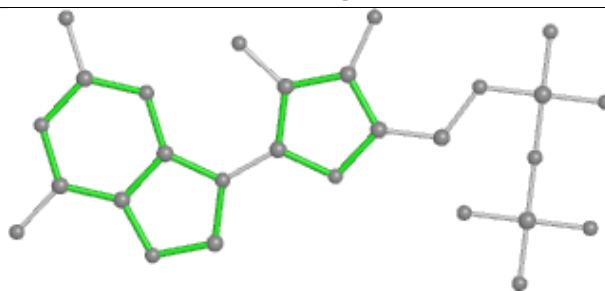
Bond lengths



Bond angles

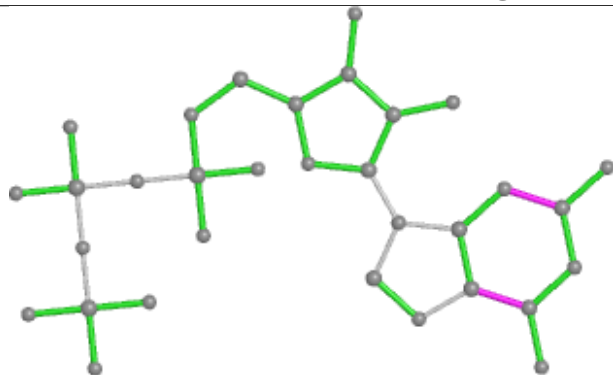


Torsions

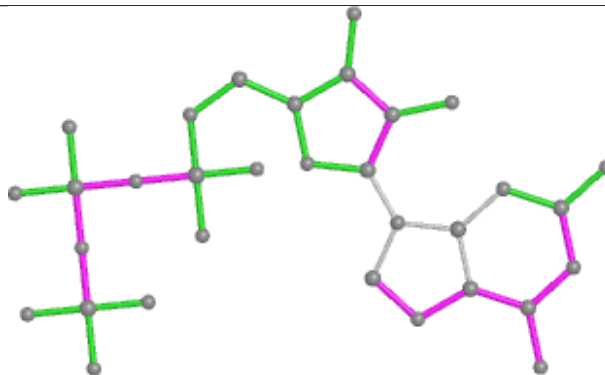


Rings

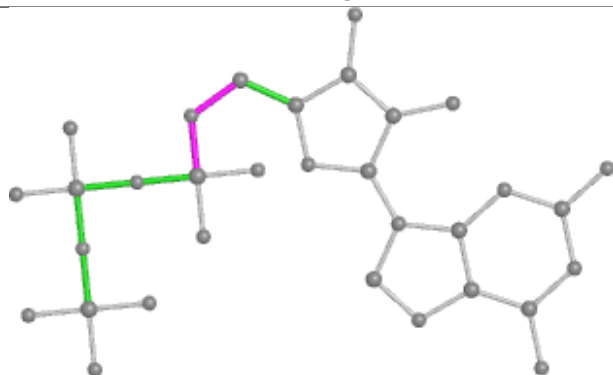
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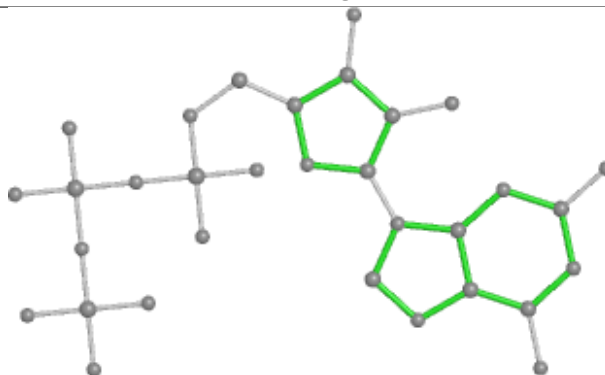
Bond lengths



Bond angles

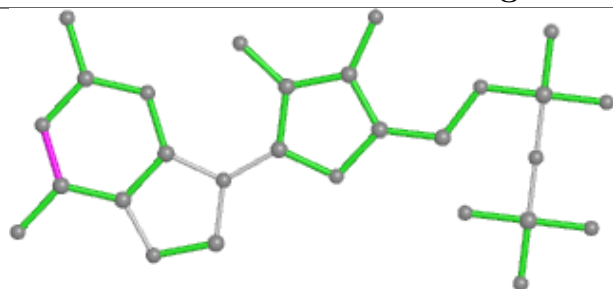


Torsions

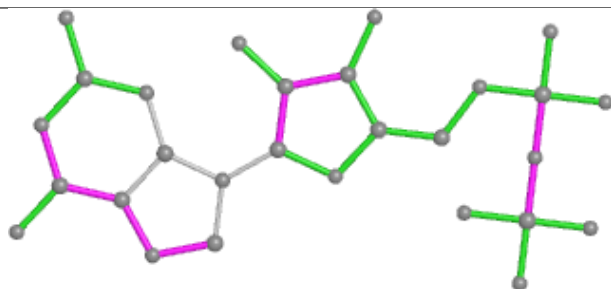


Rings

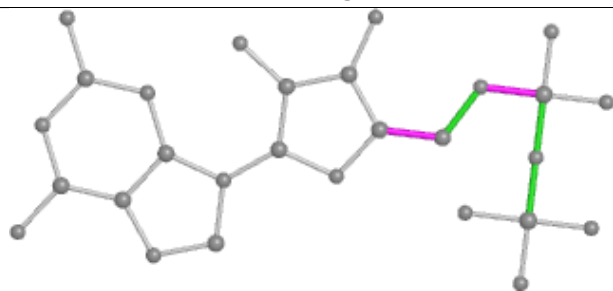
Ligand GDP CZ 501



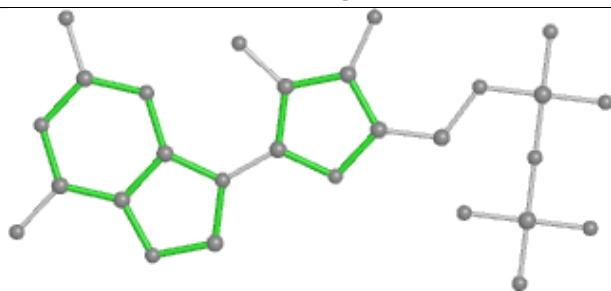
Bond lengths



Bond angles

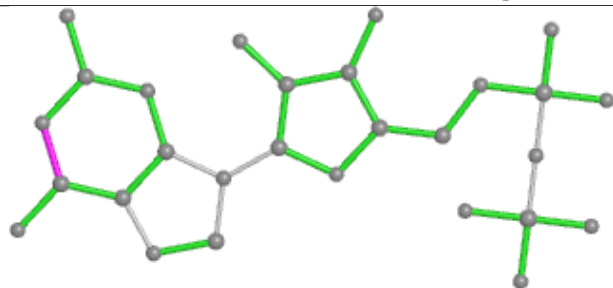


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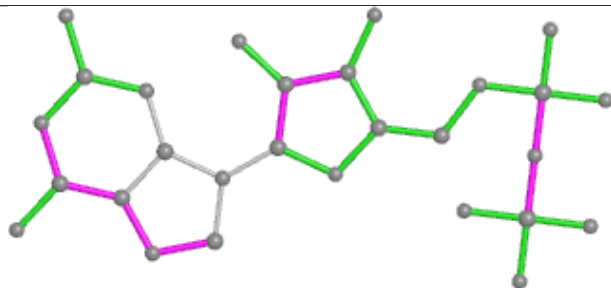


Rings

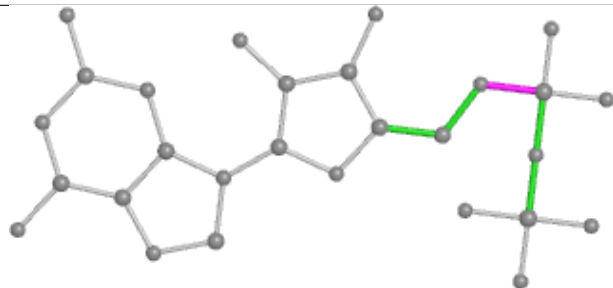
Ligand GDP RN 501



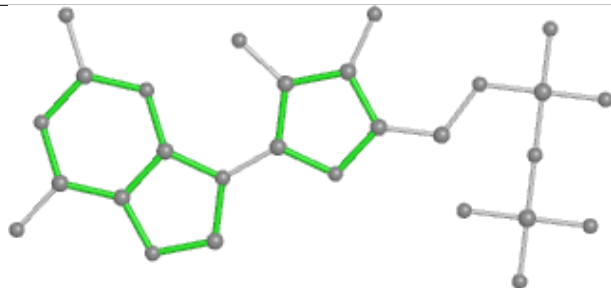
Bond lengths



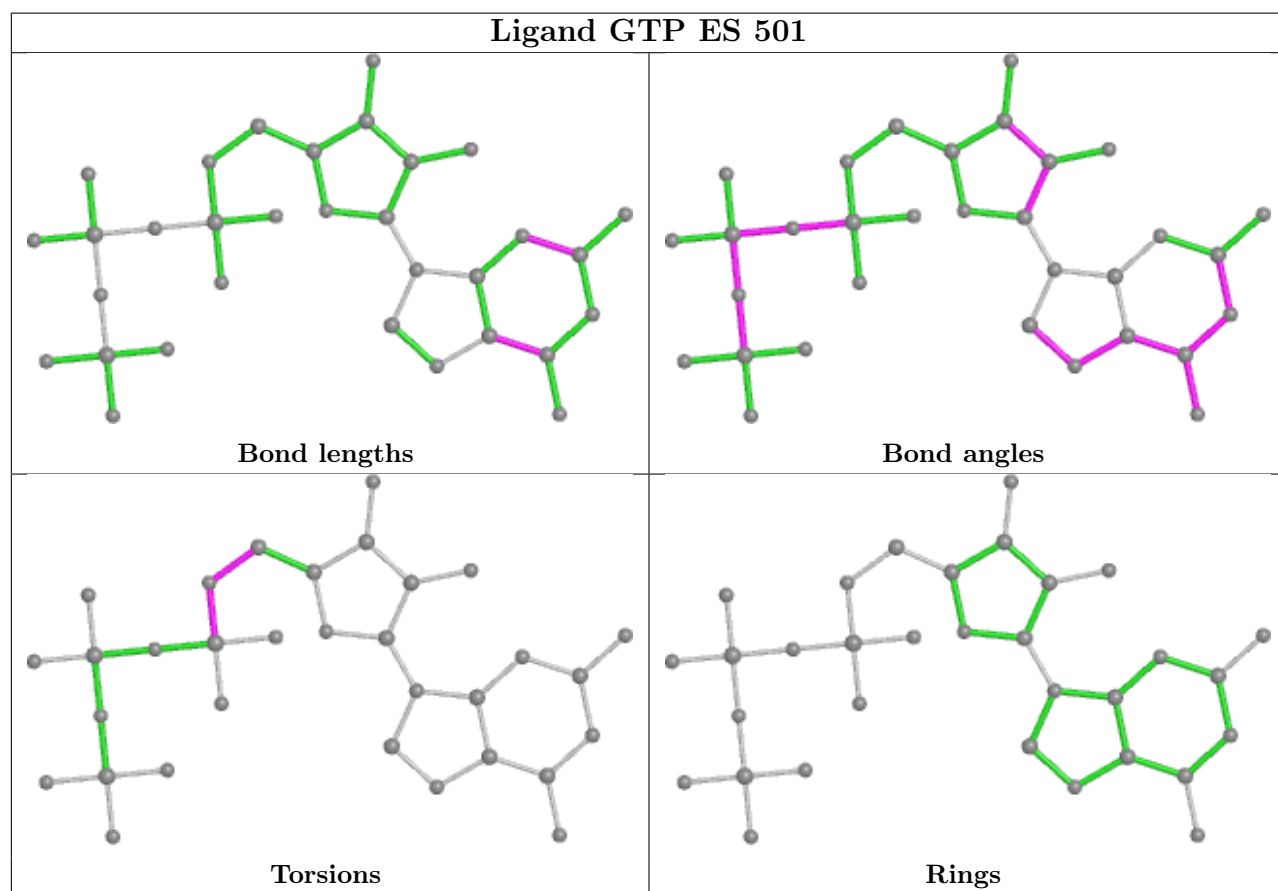
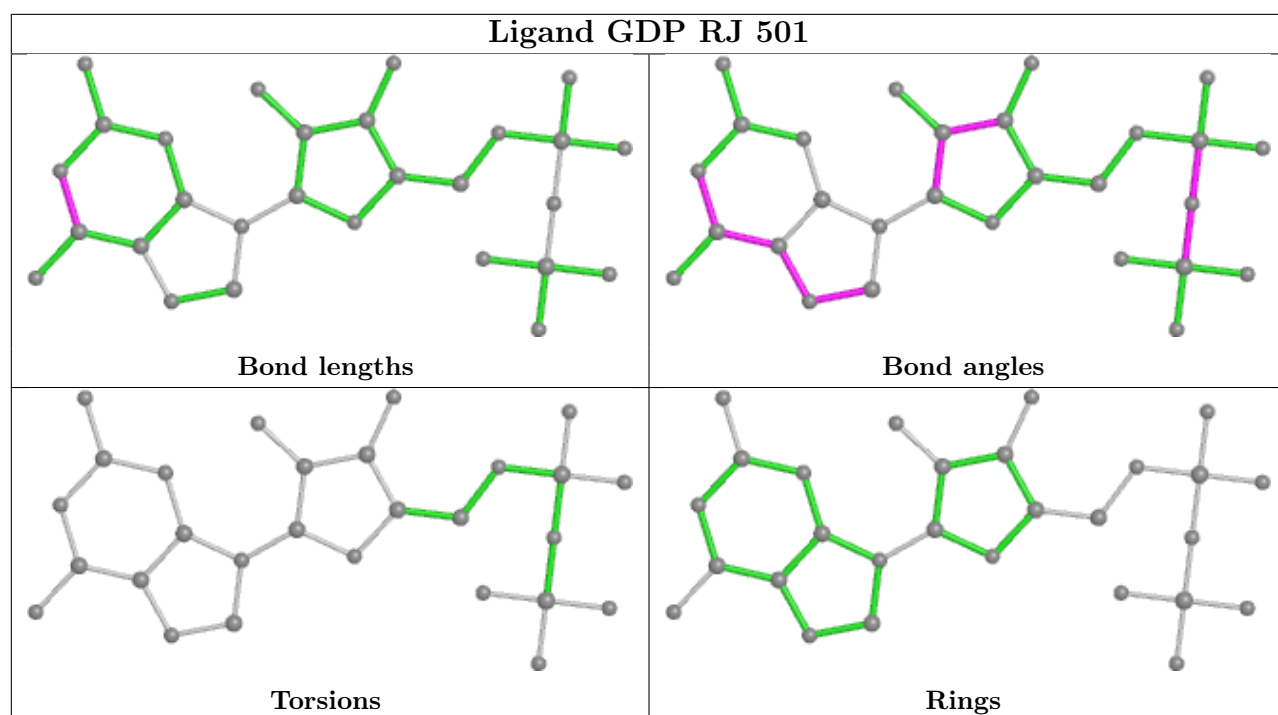
Bond angles



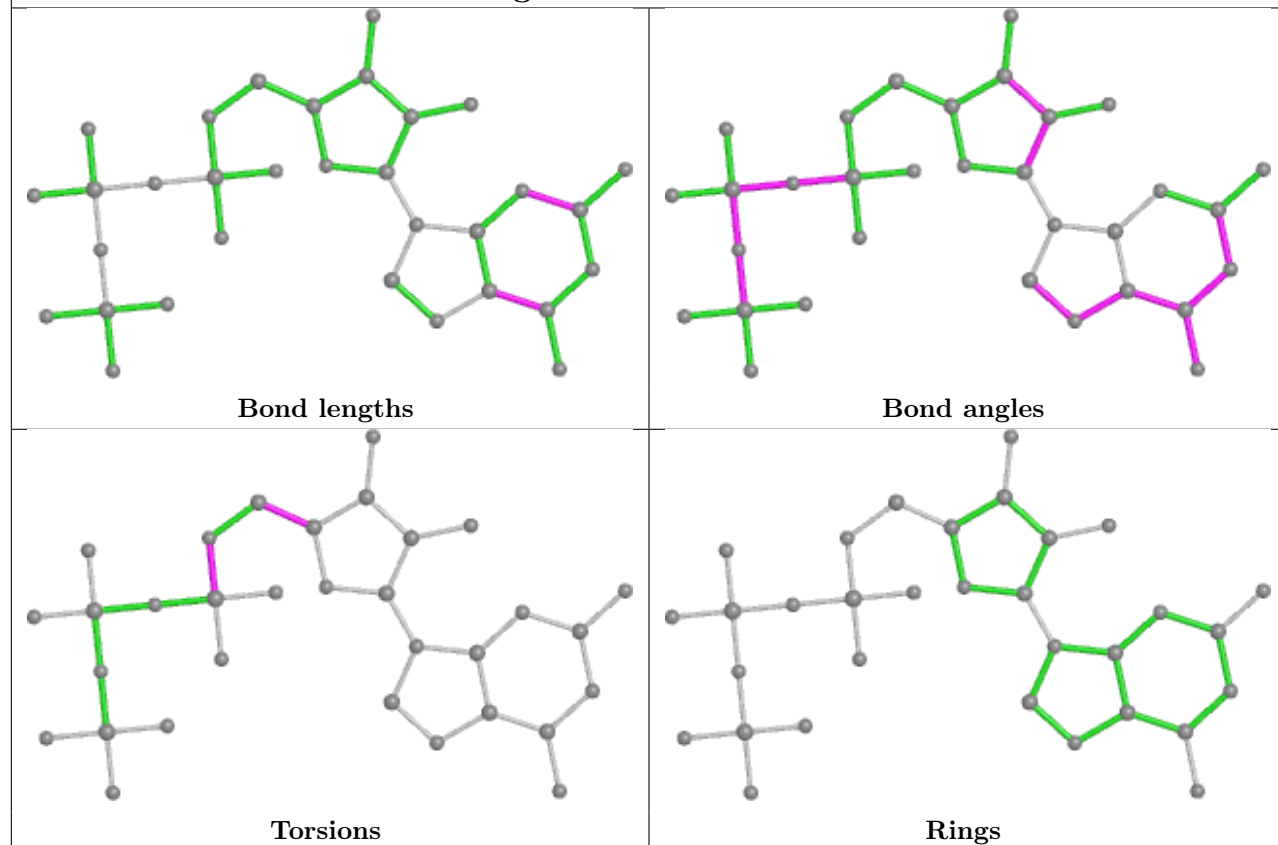
Torsions



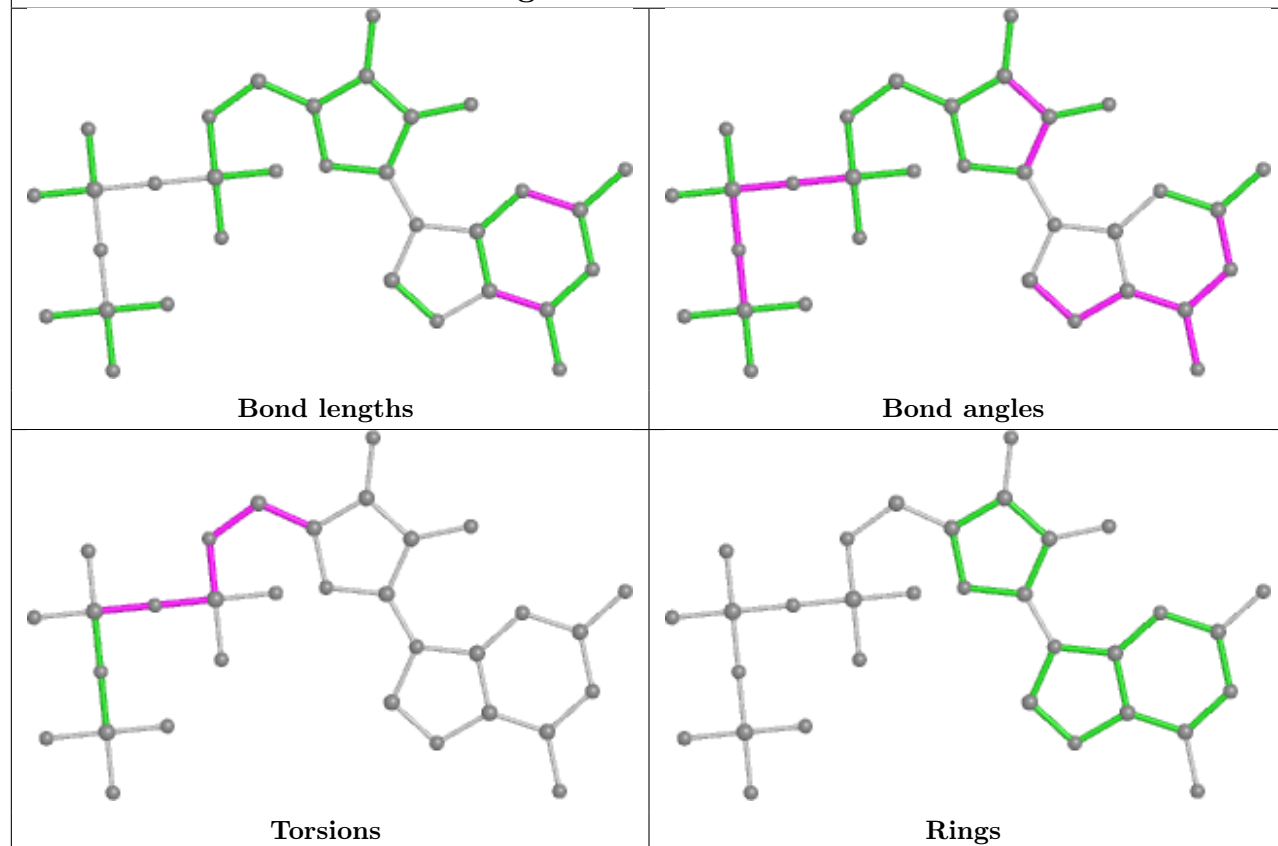
Rings



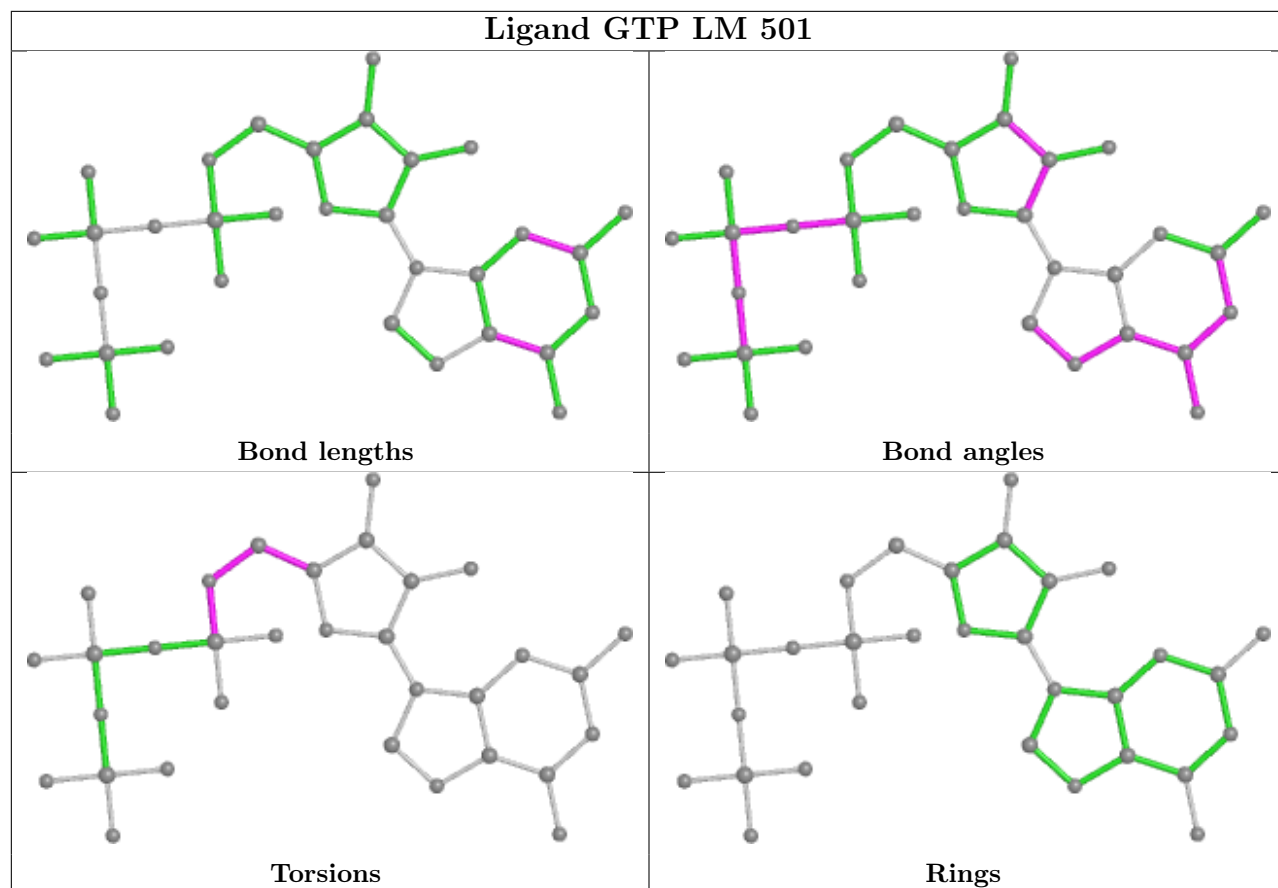
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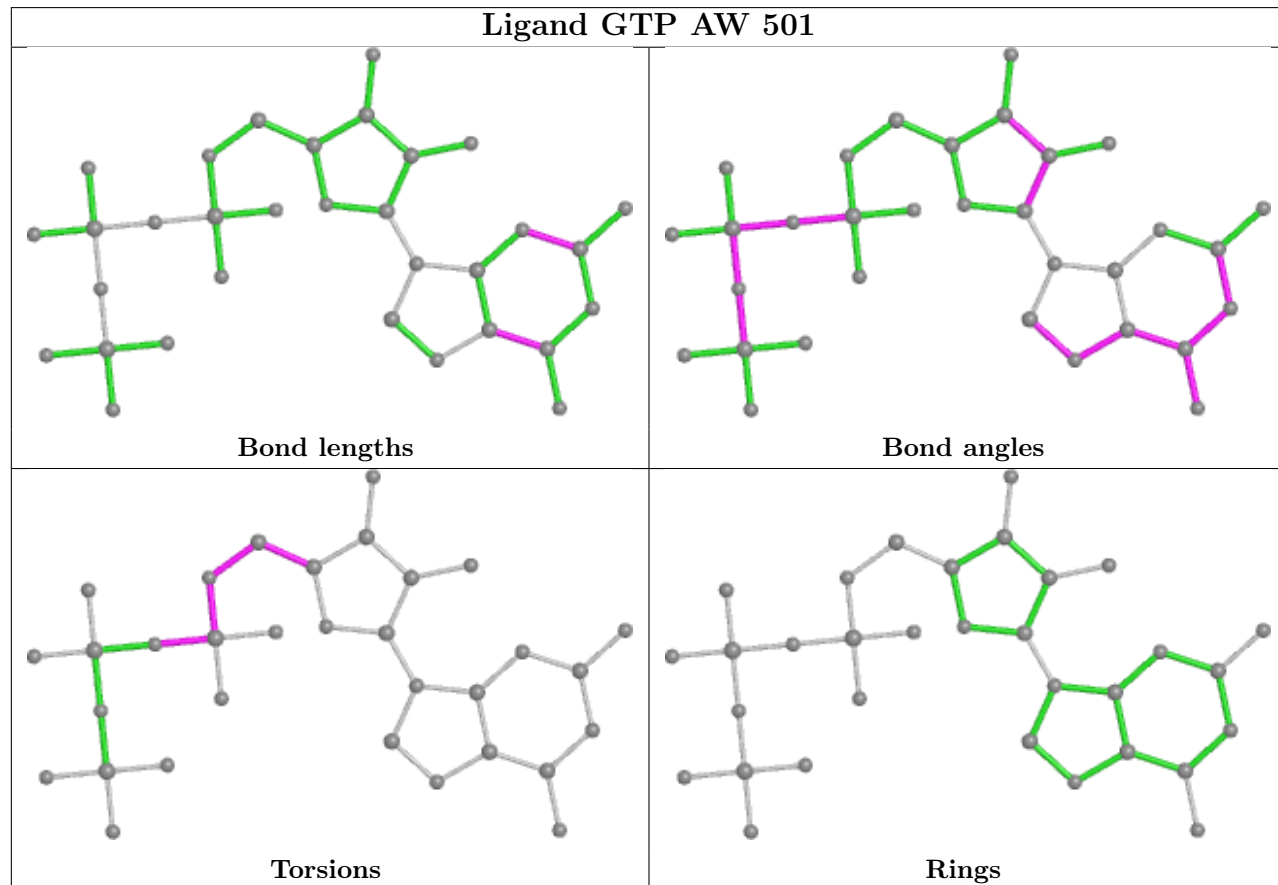
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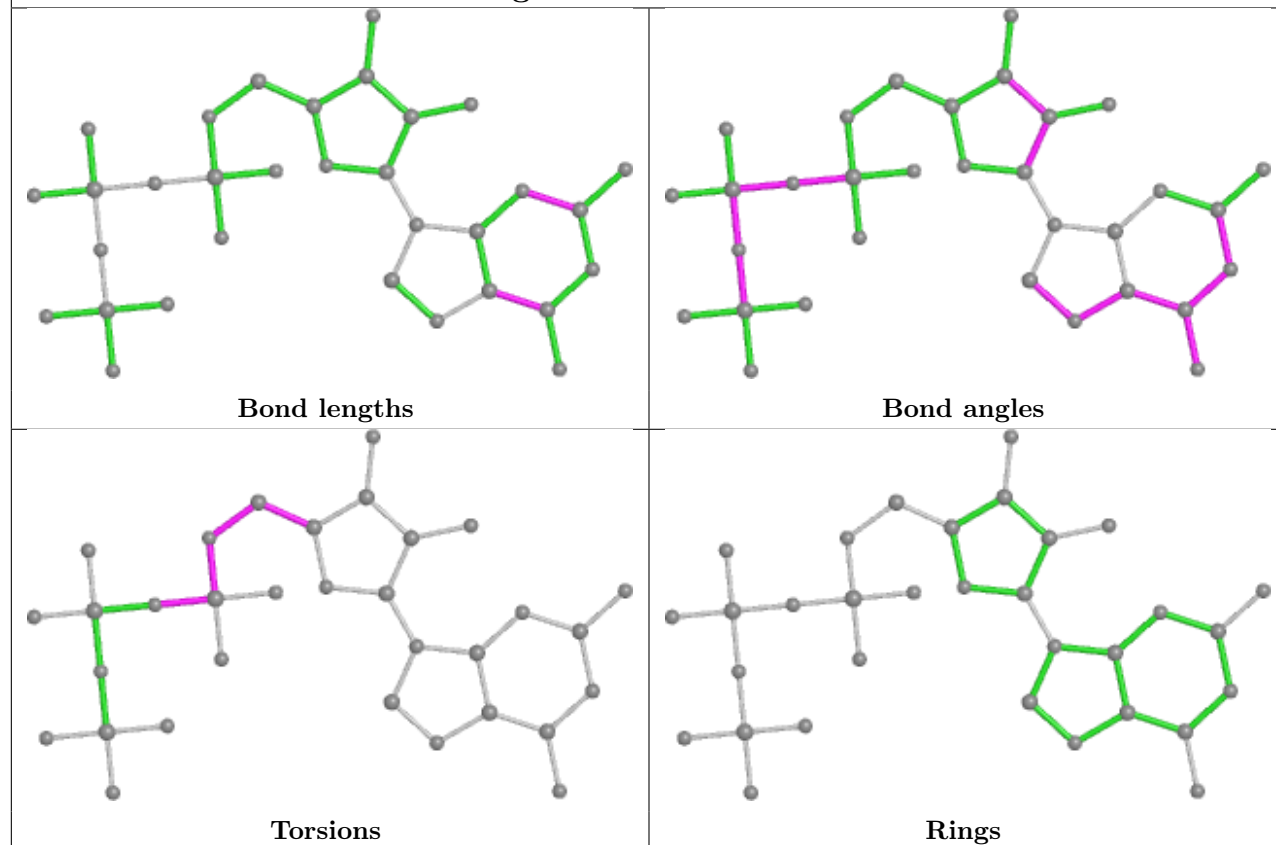
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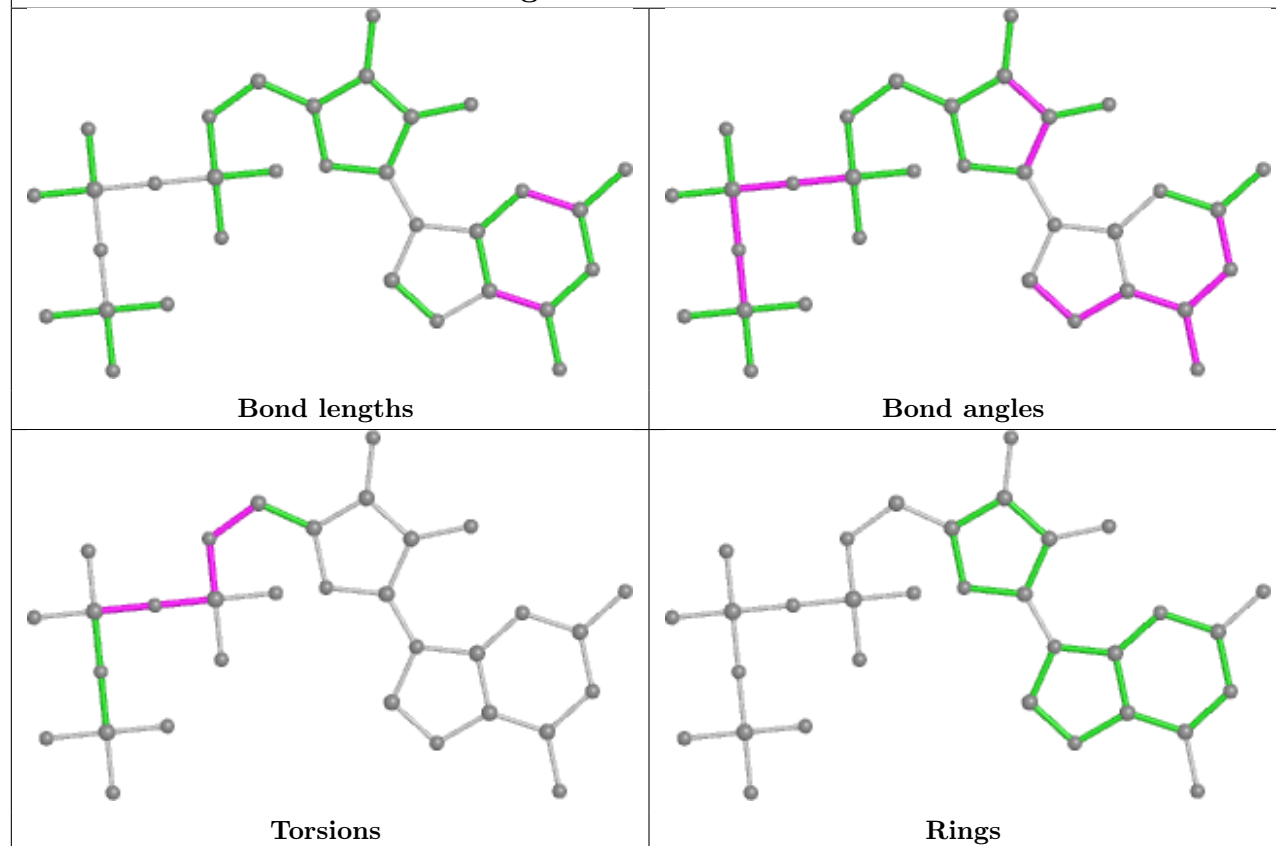
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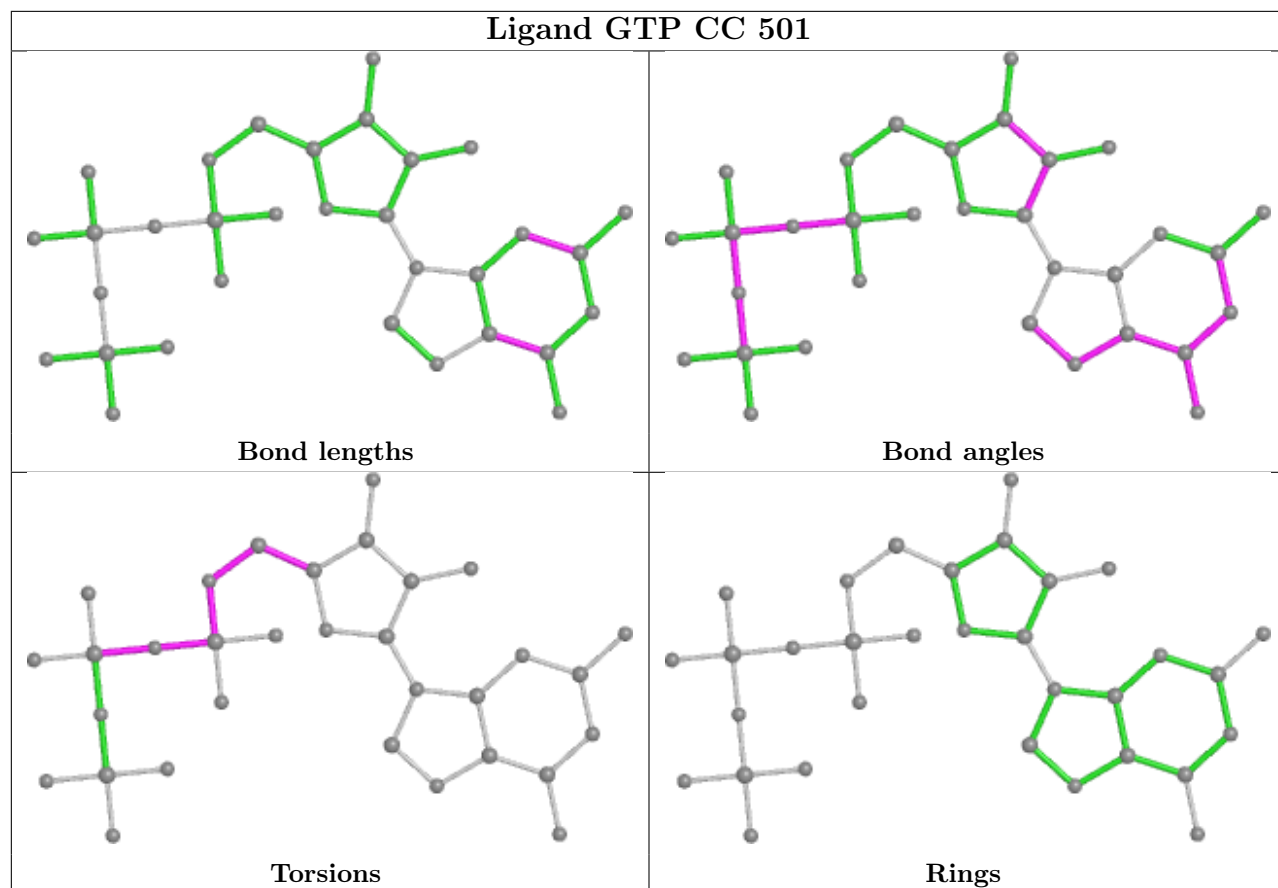
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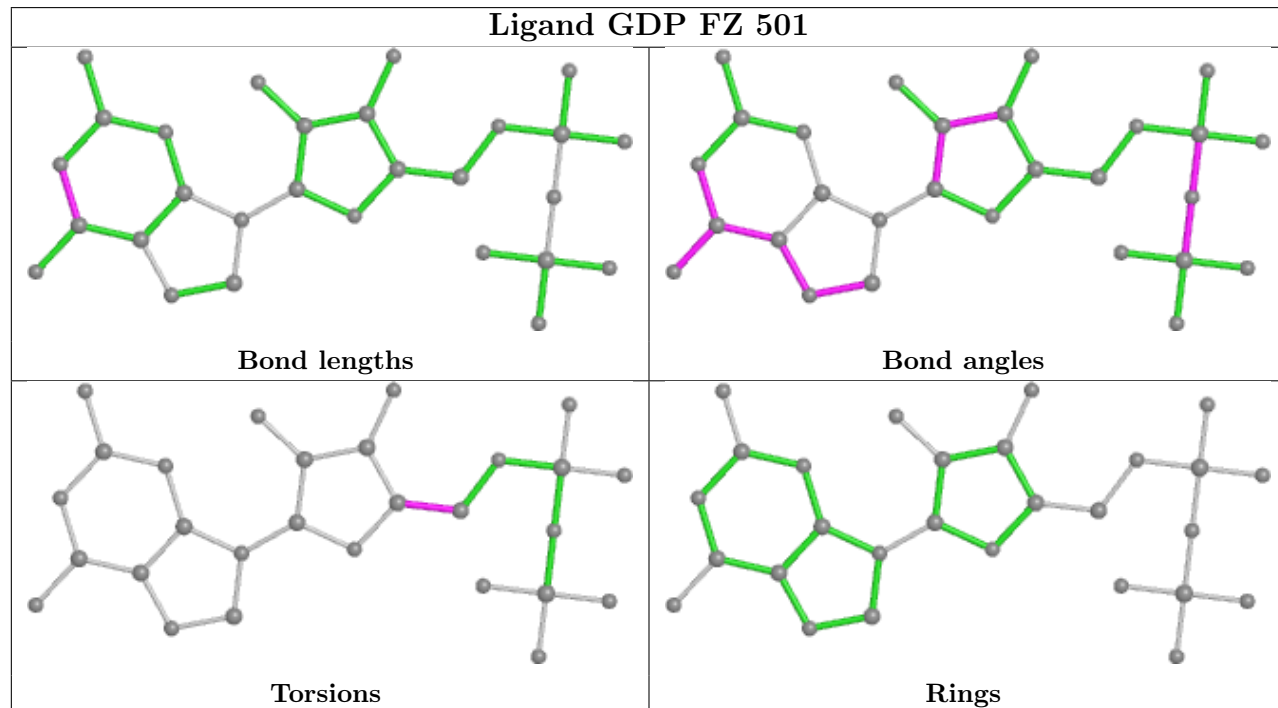
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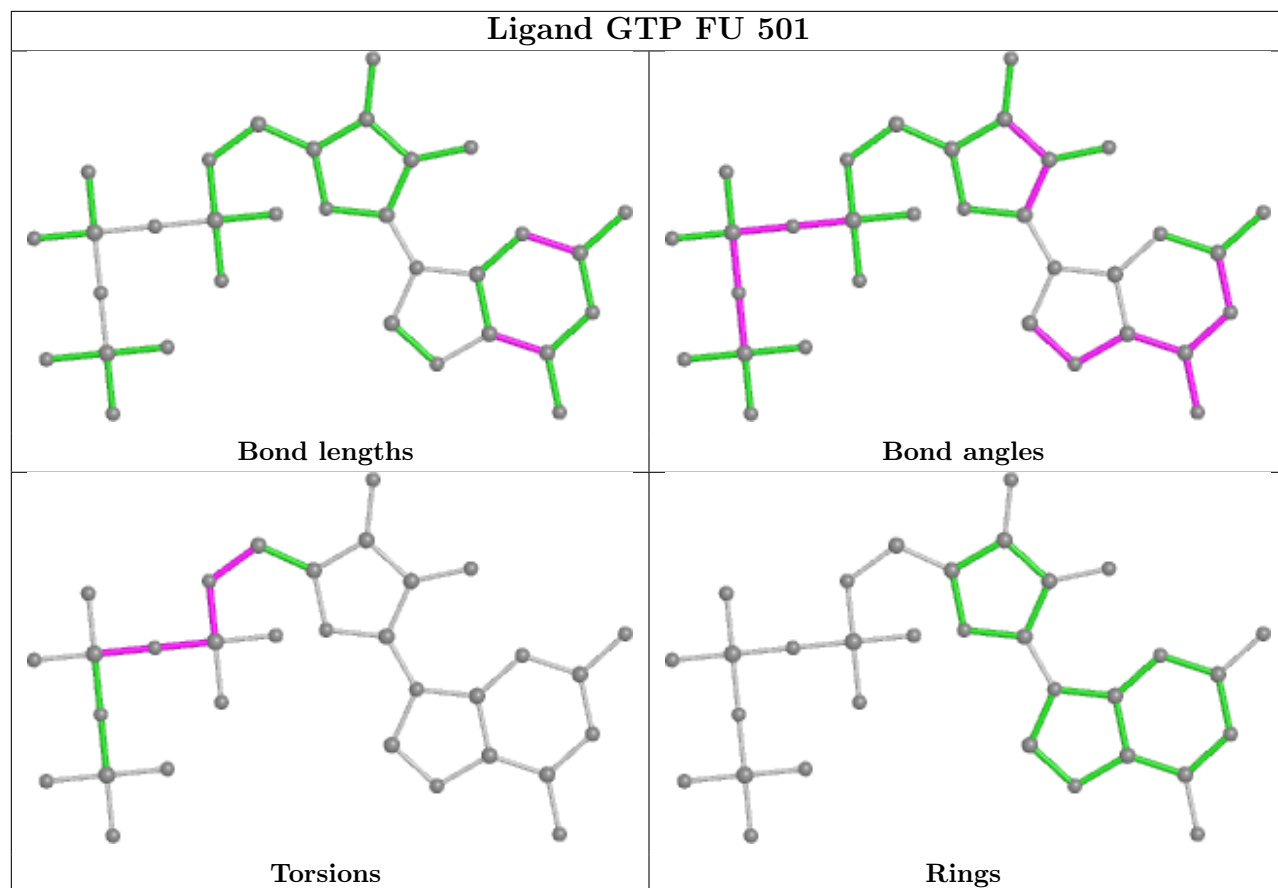
Ligand GTP CC 501



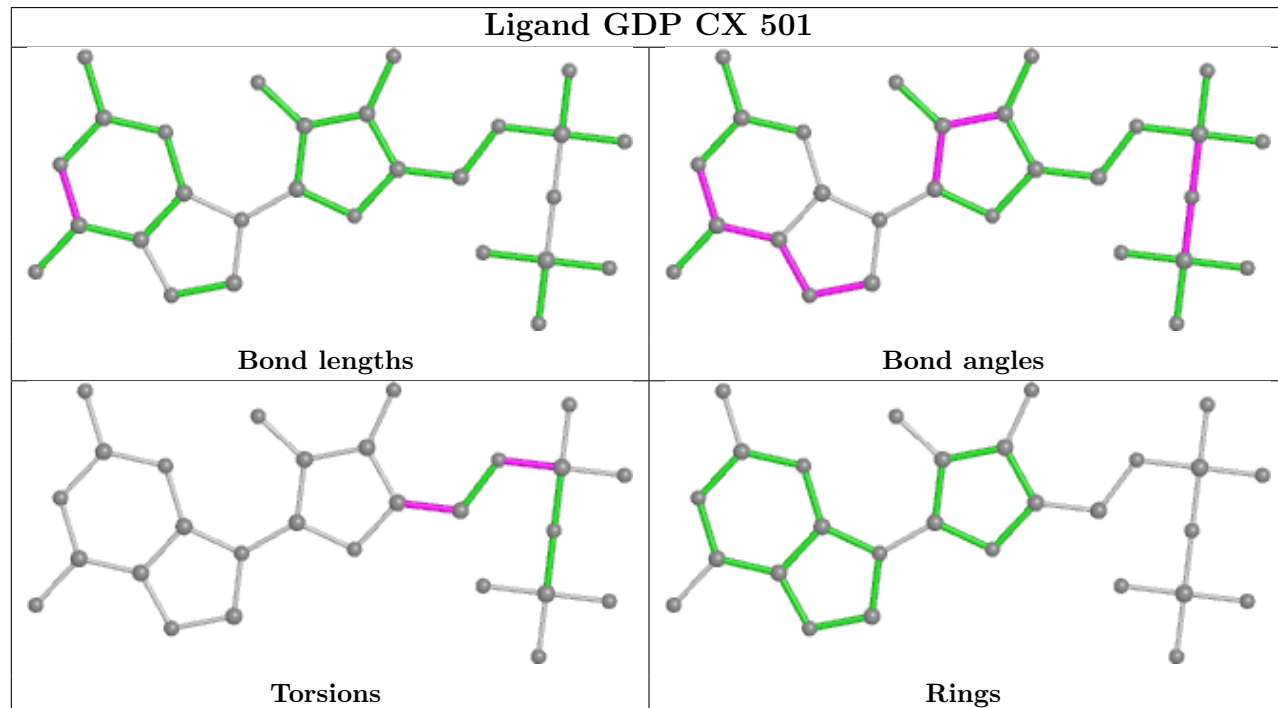
Ligand GDP FZ 501

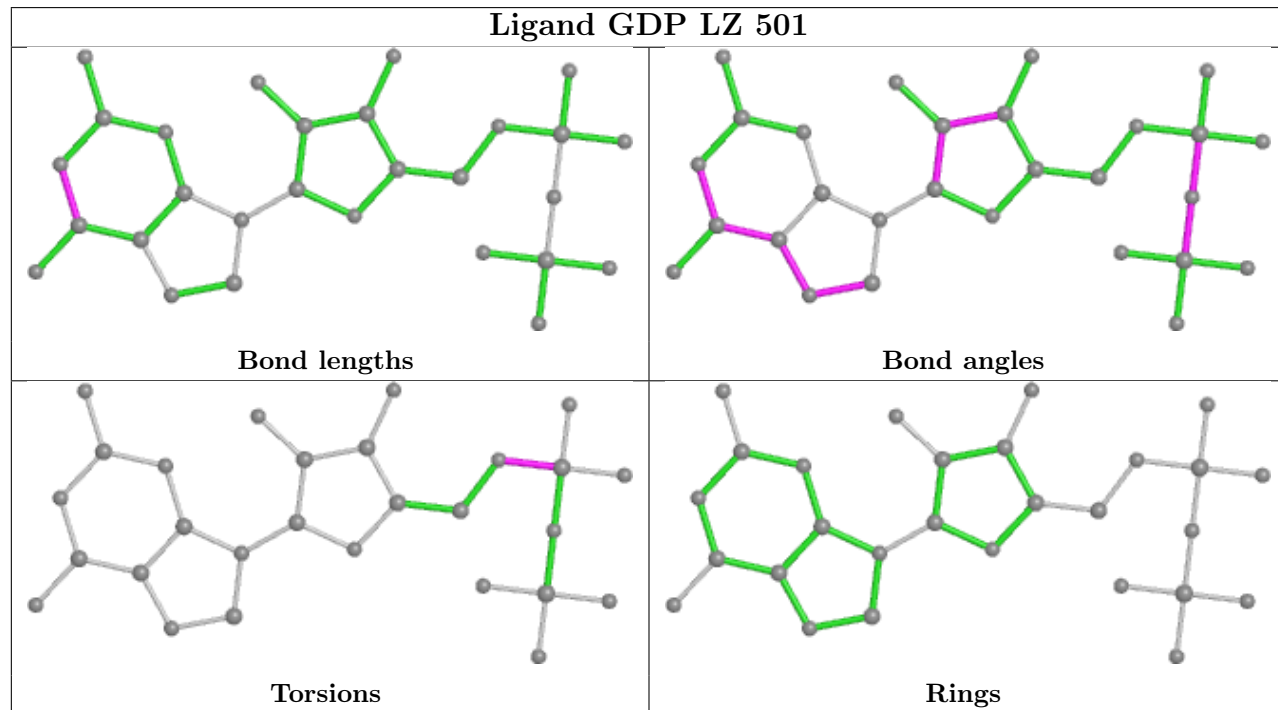
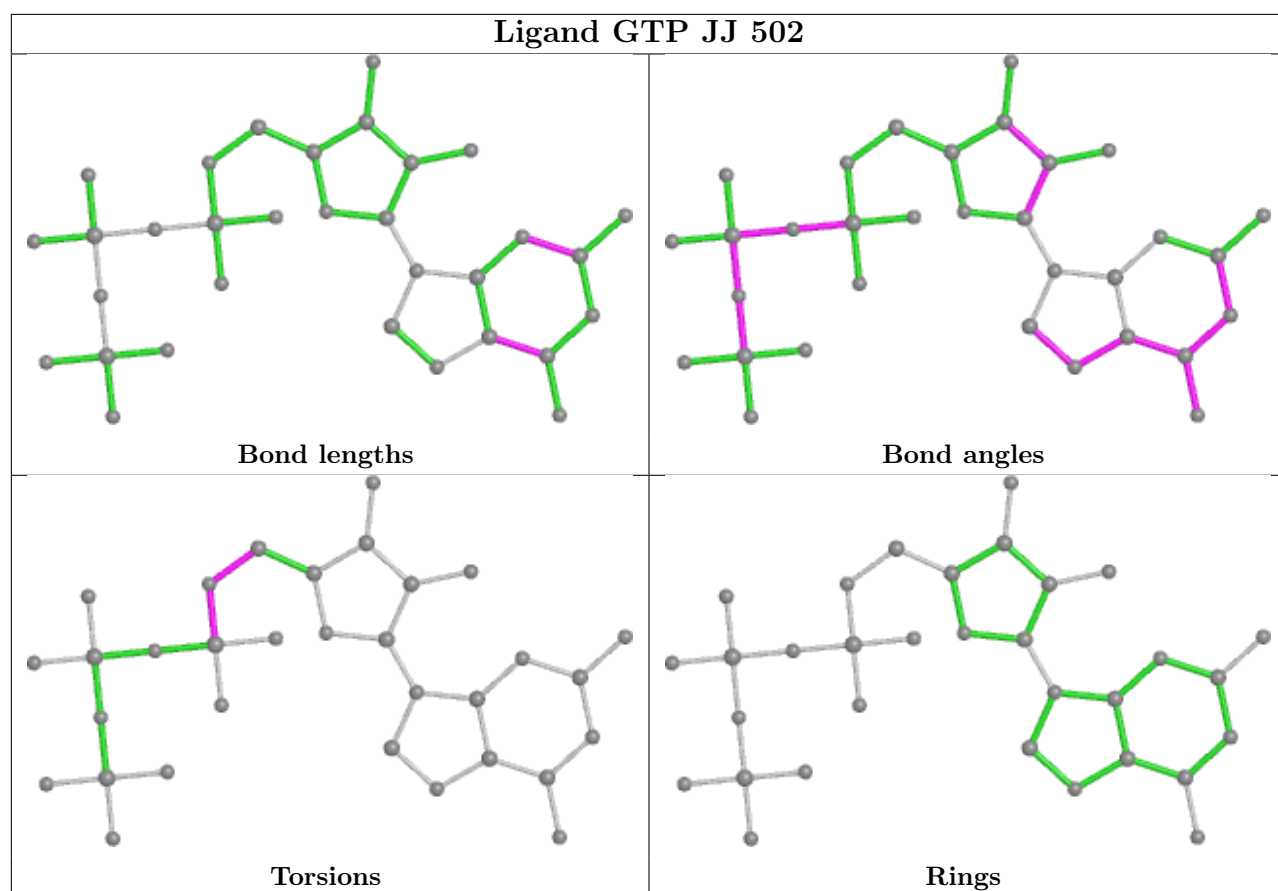


Ligand GTP FU 501

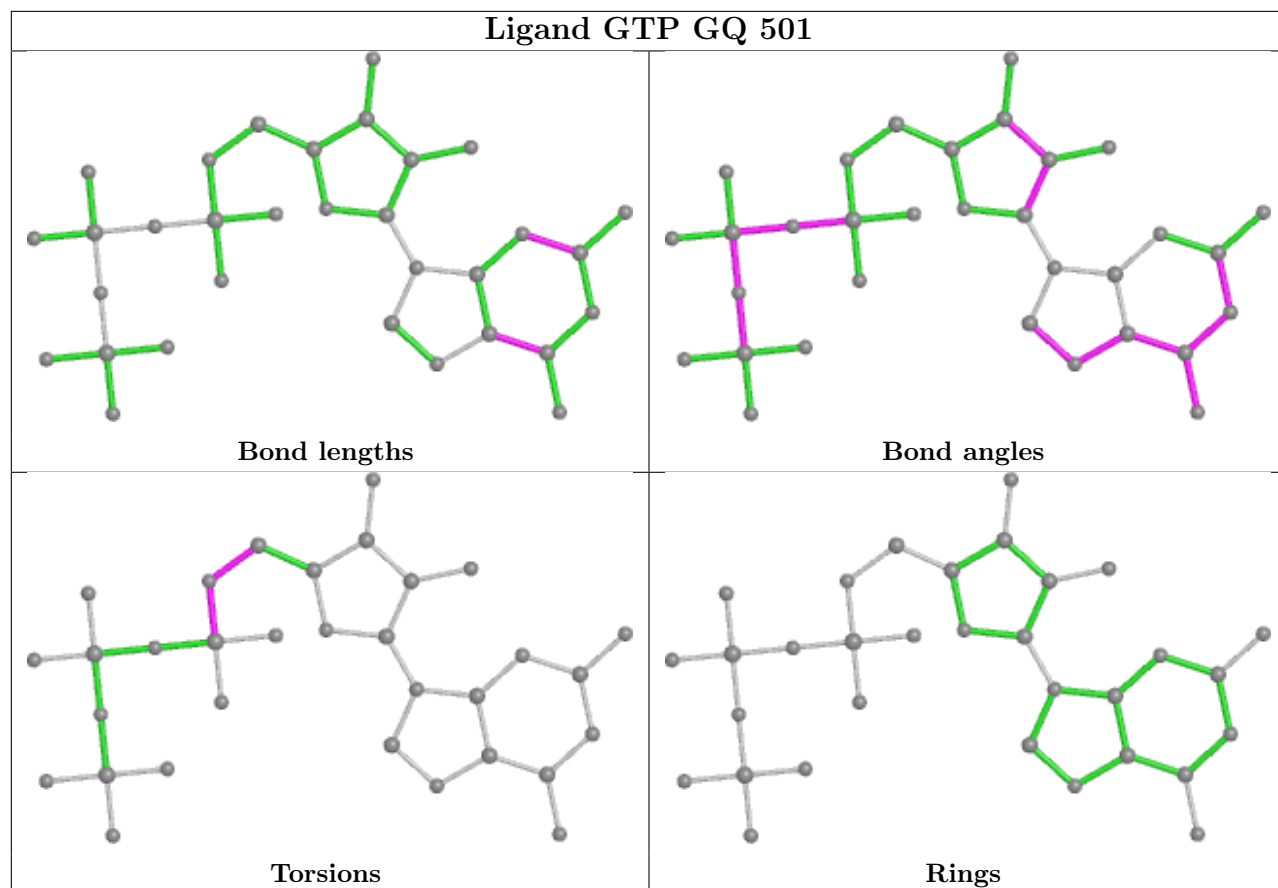


Ligand GDP CX 501

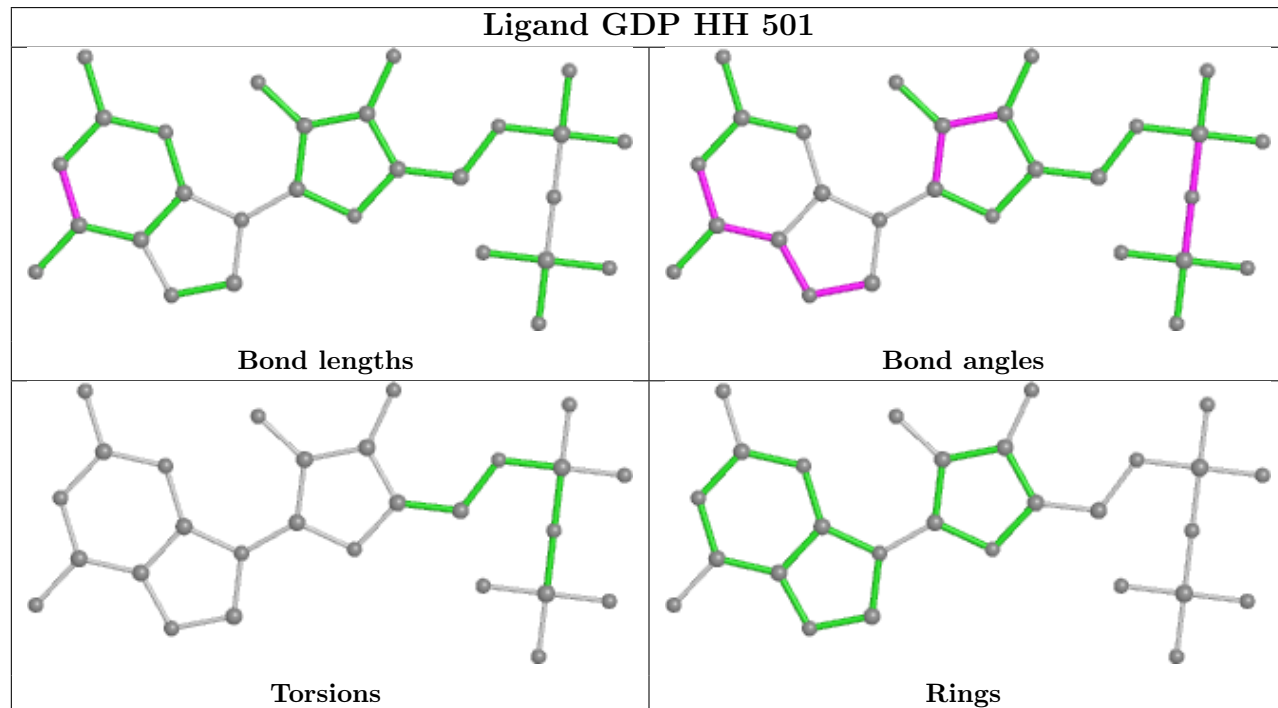


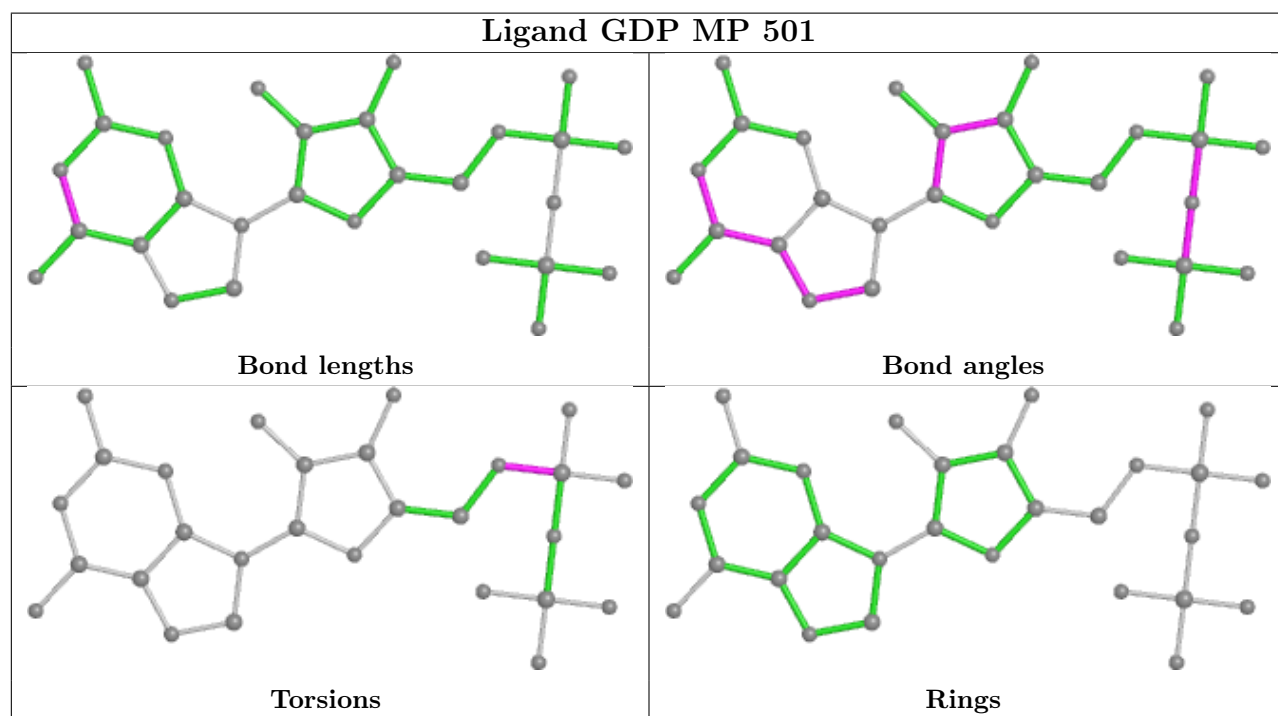
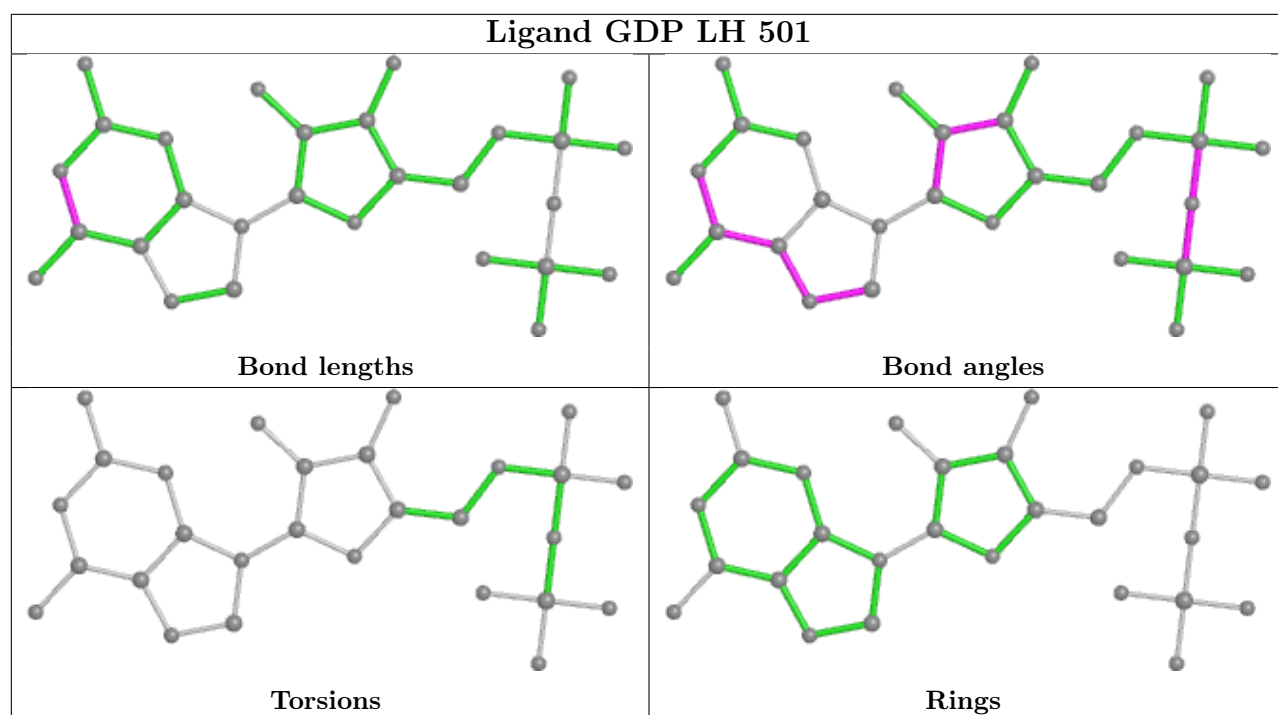


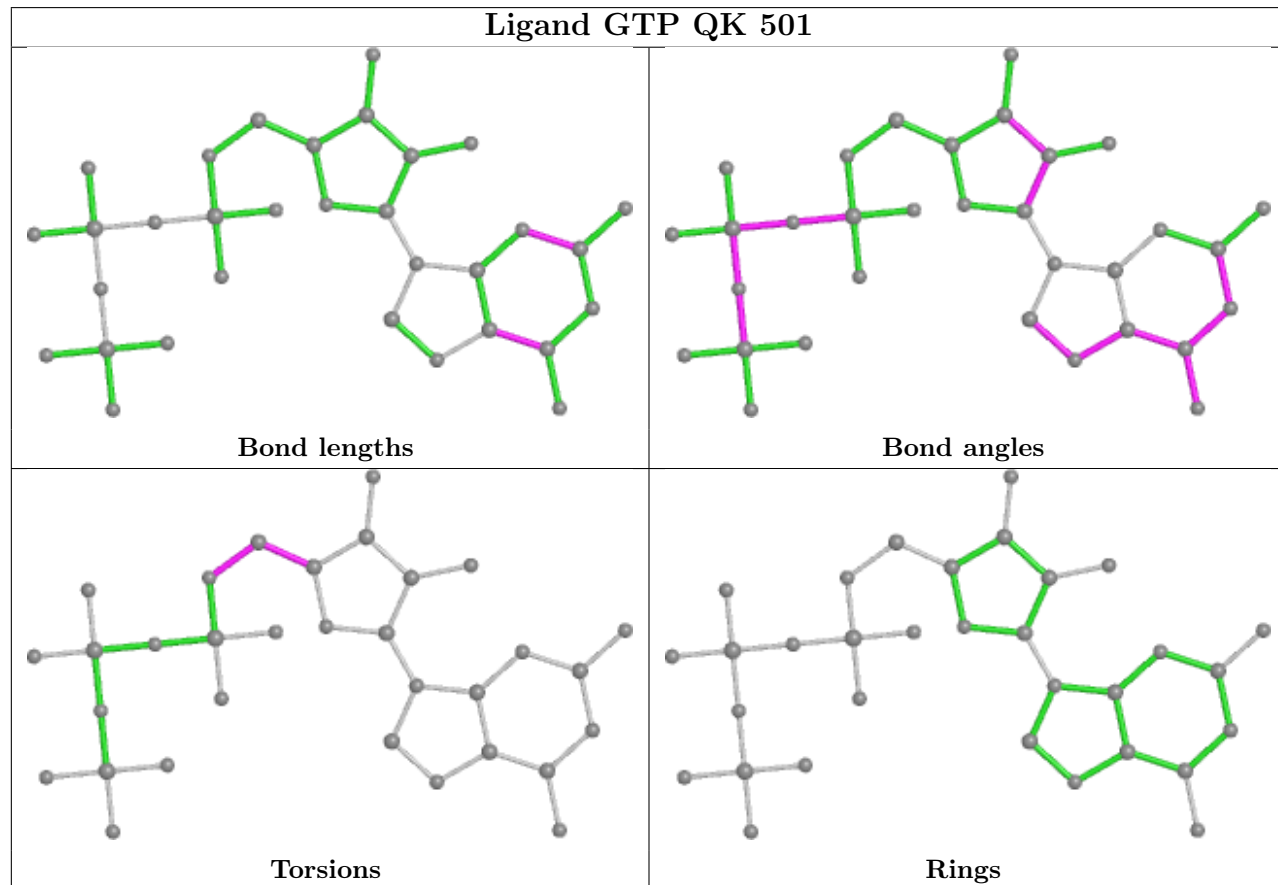
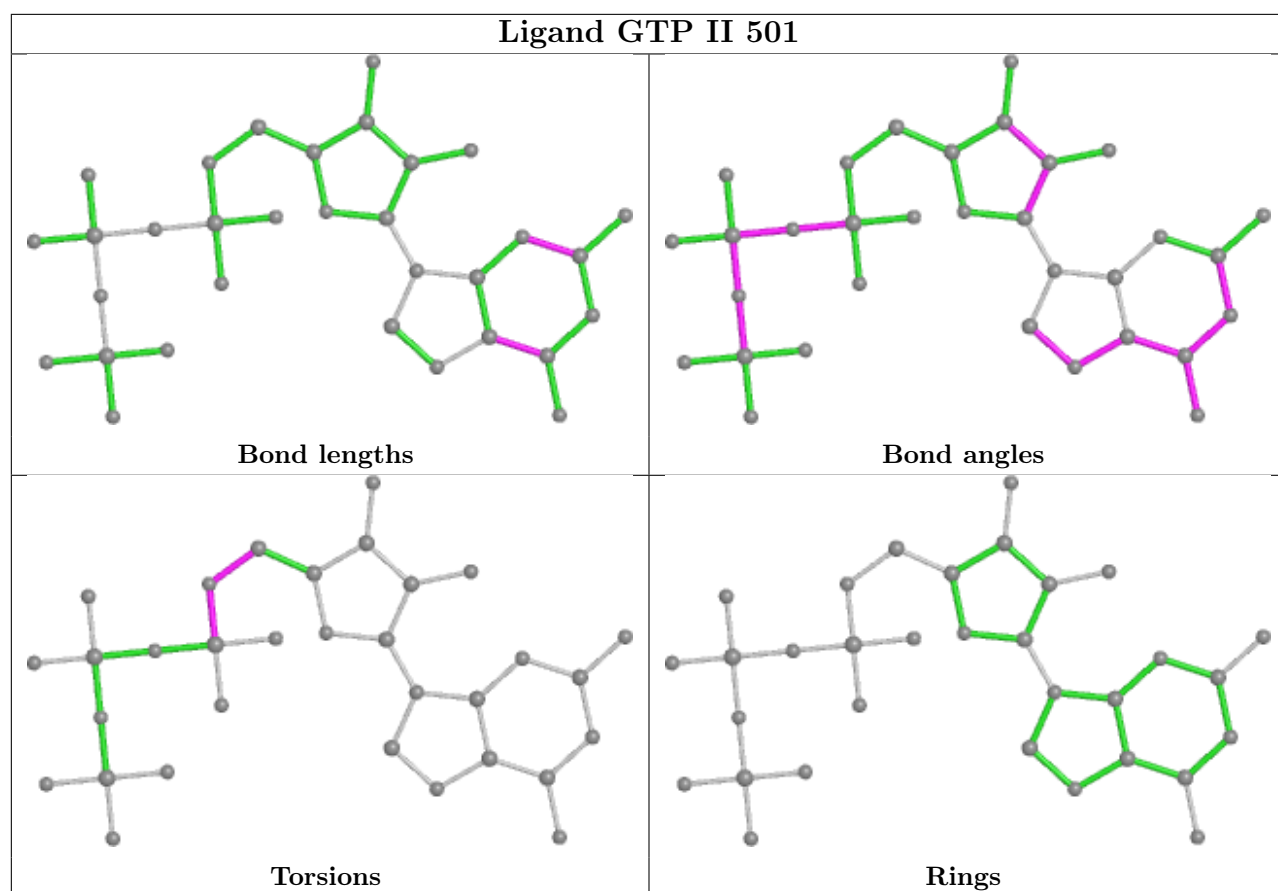
Ligand GTP GQ 501

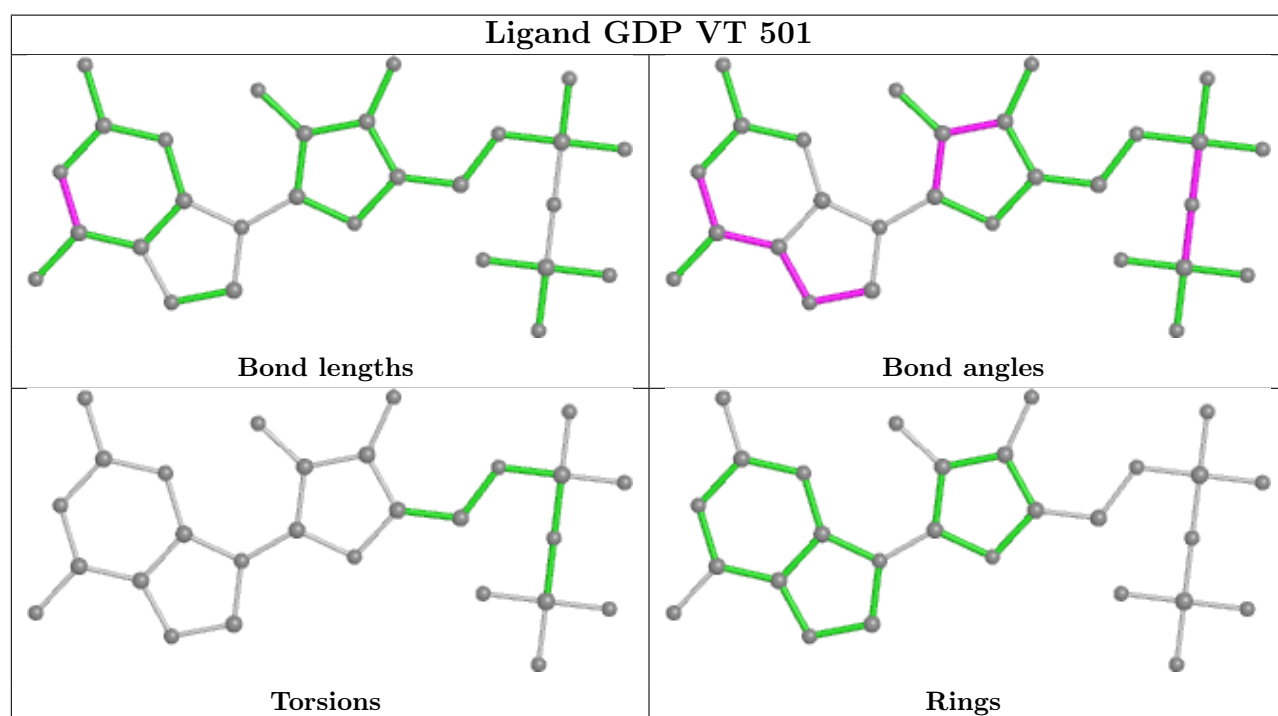
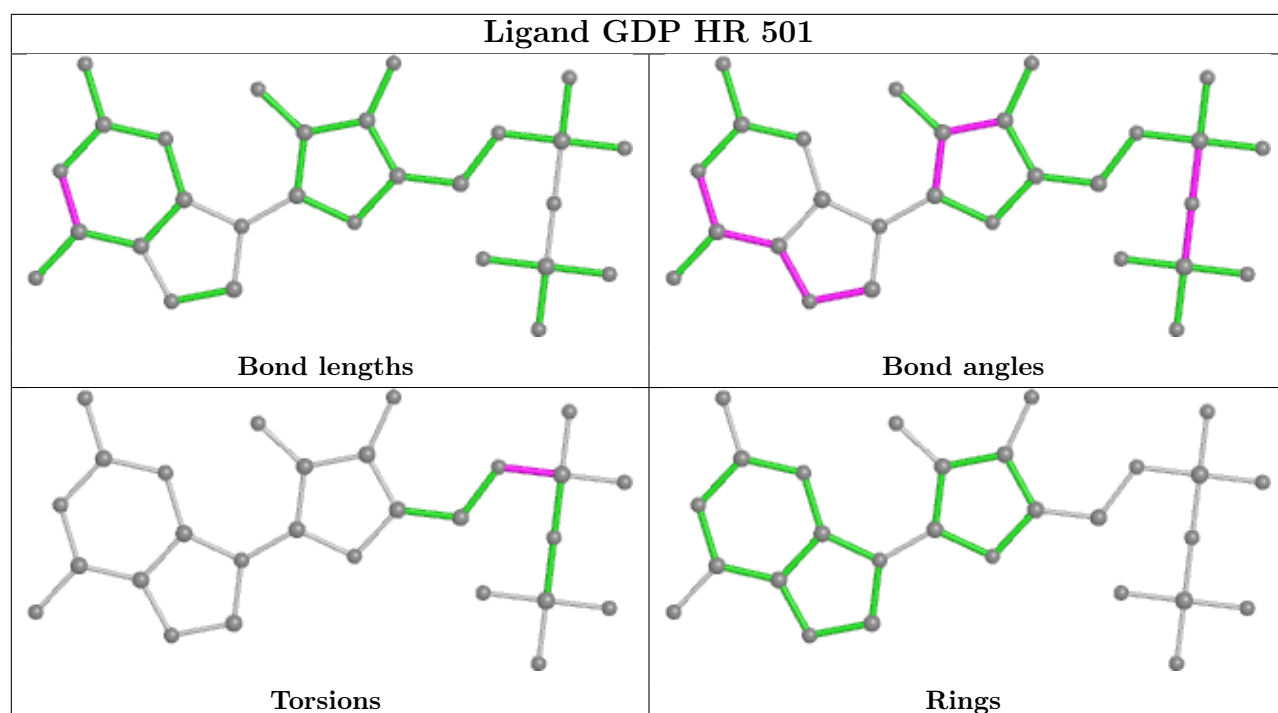


Ligand GDP HH 501

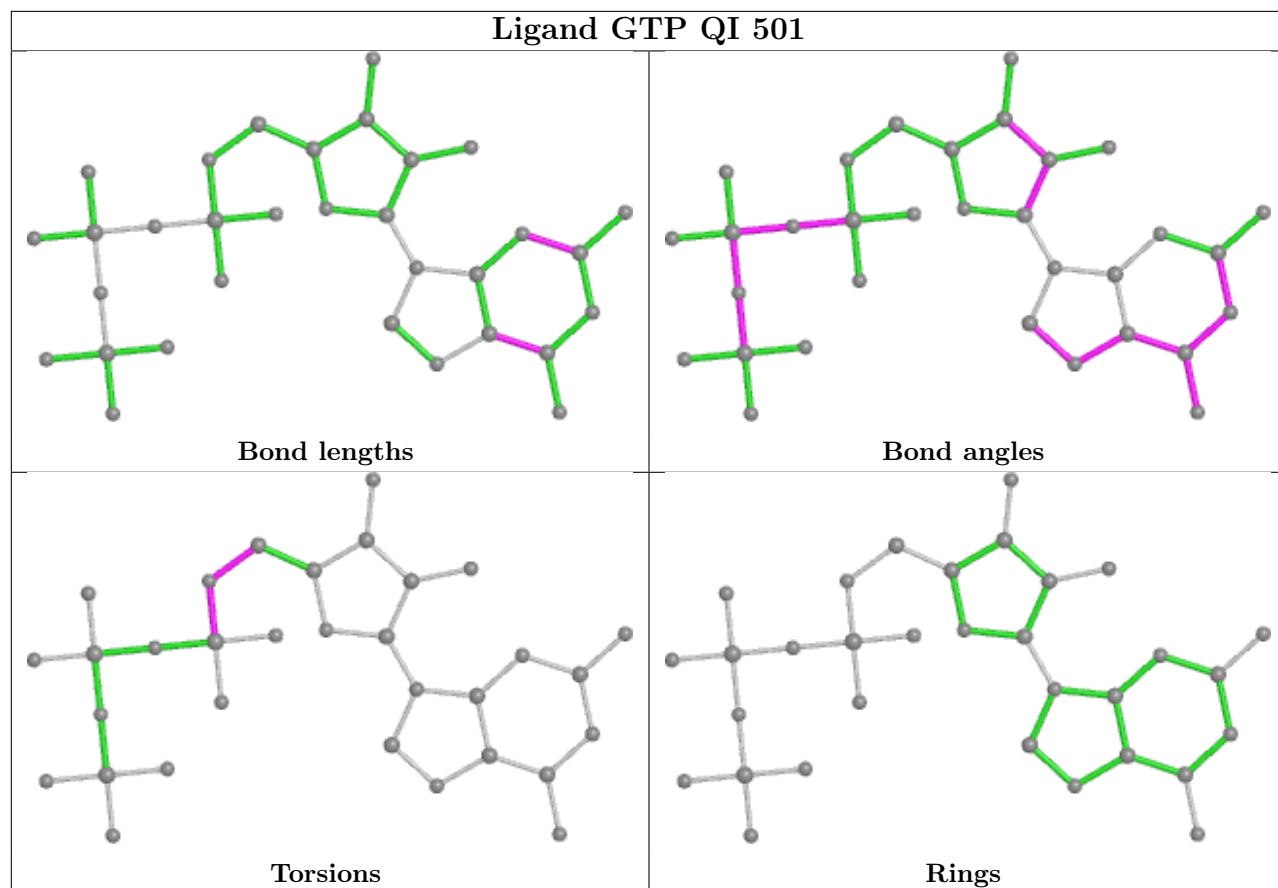




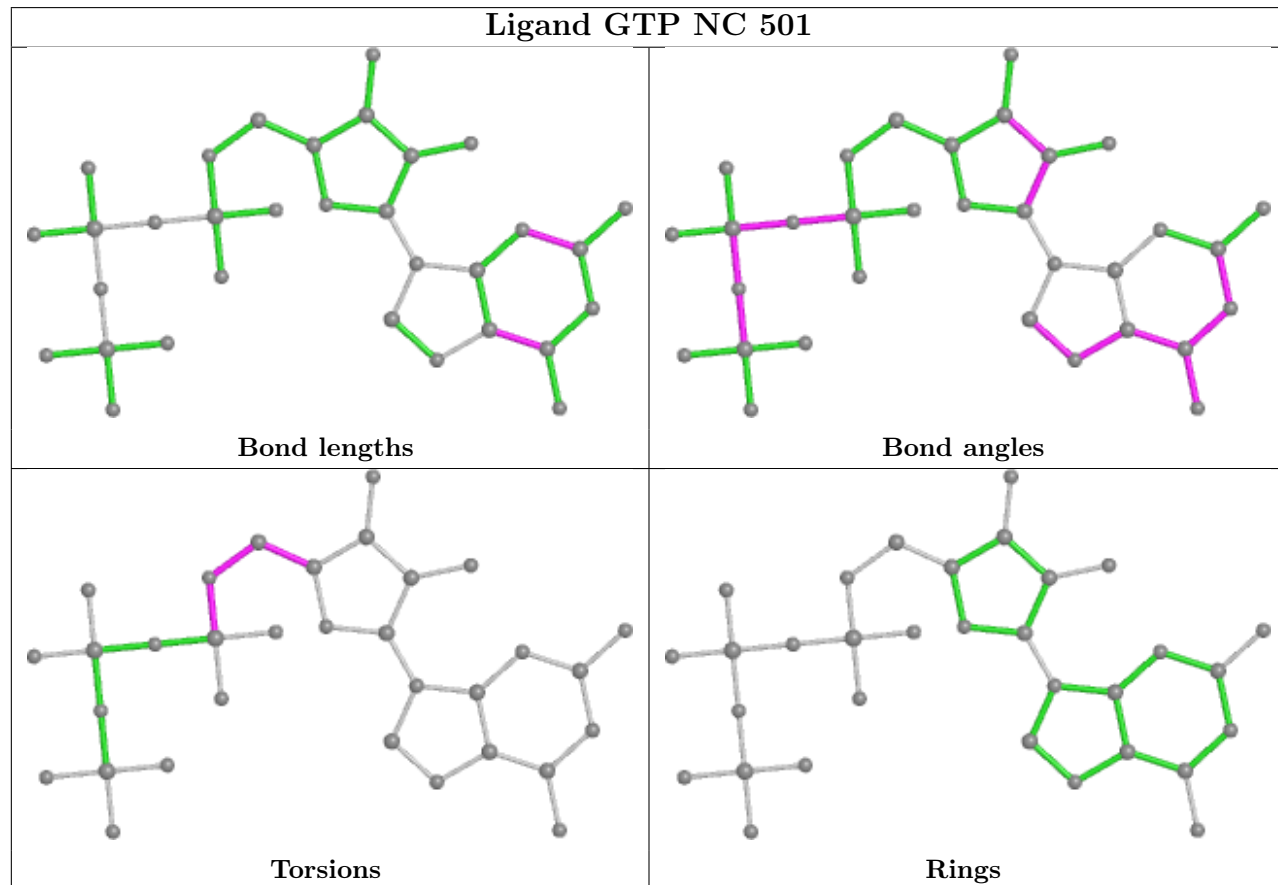




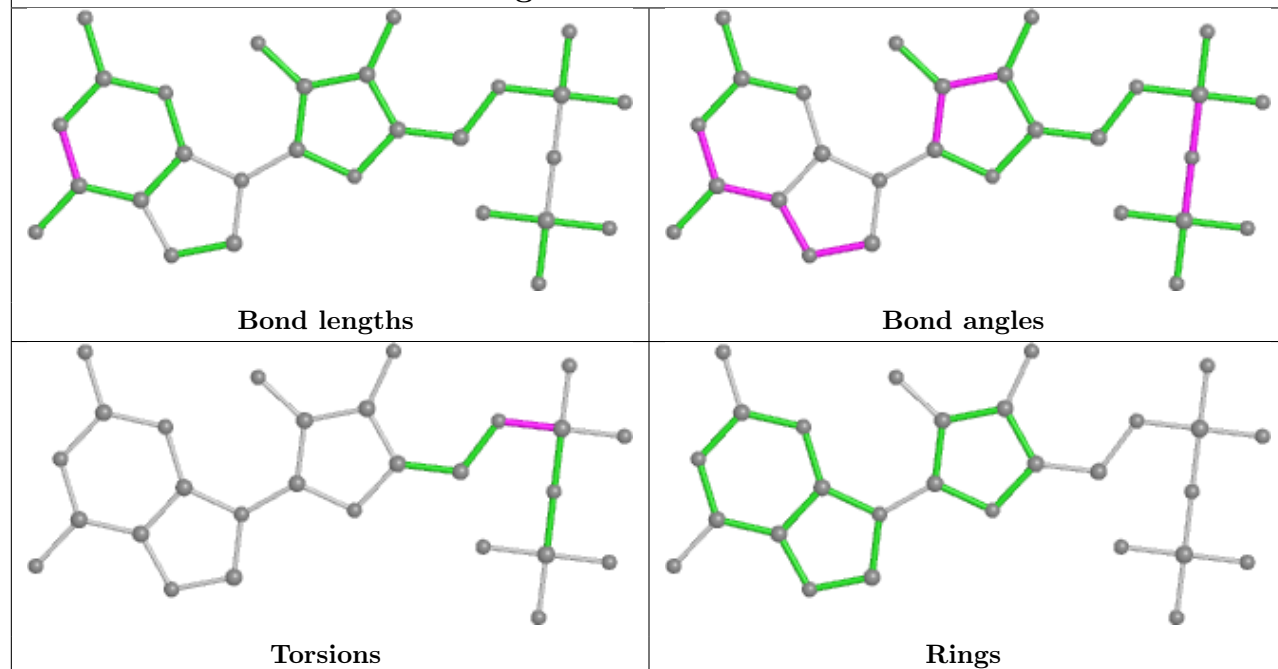
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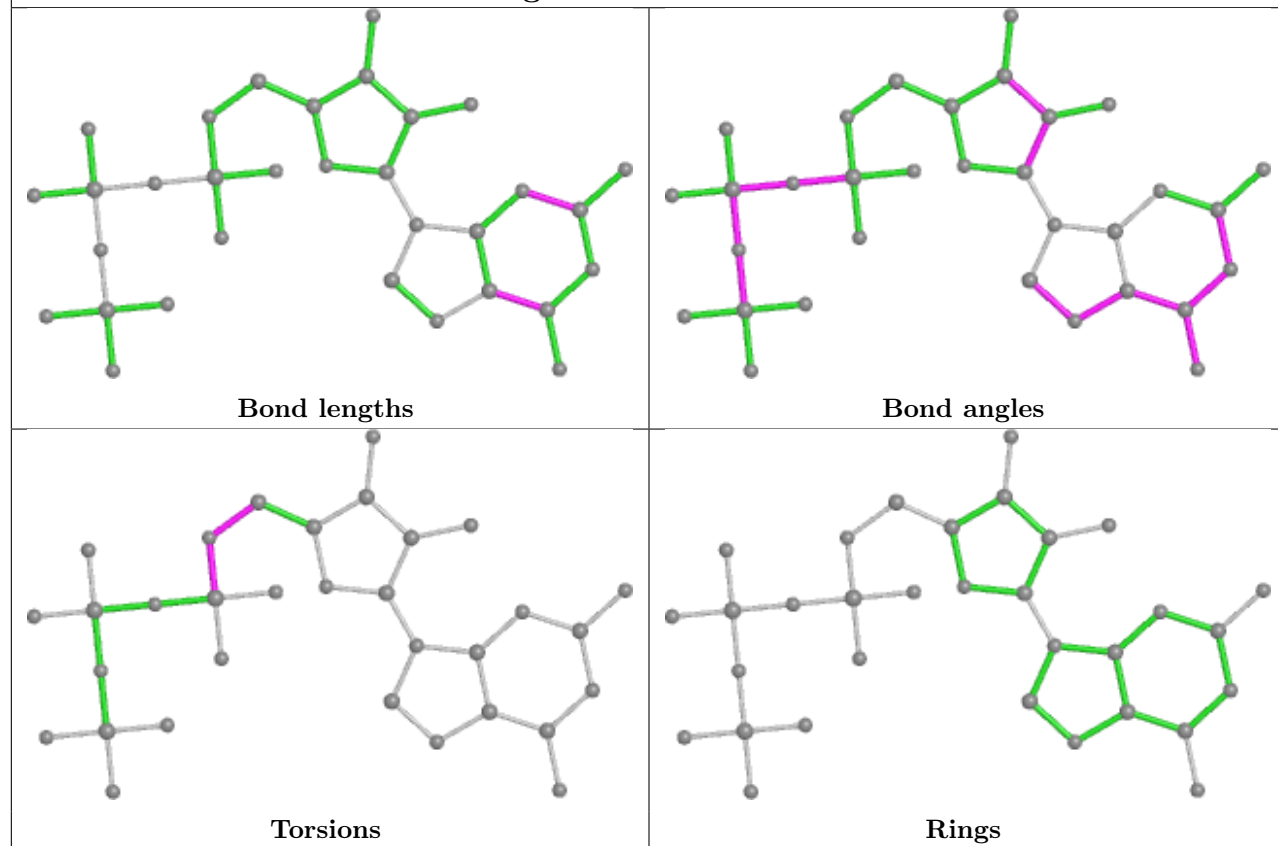
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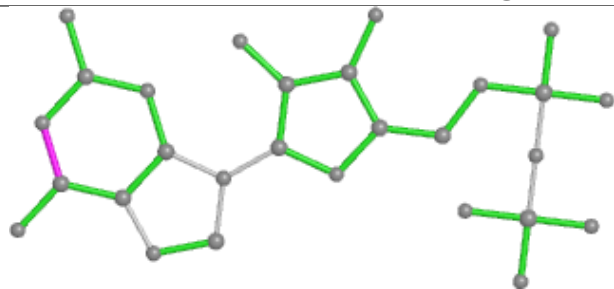
Ligand GDP VR 501



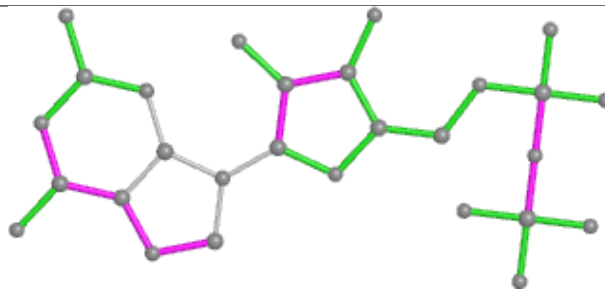
Ligand GTP NI 501



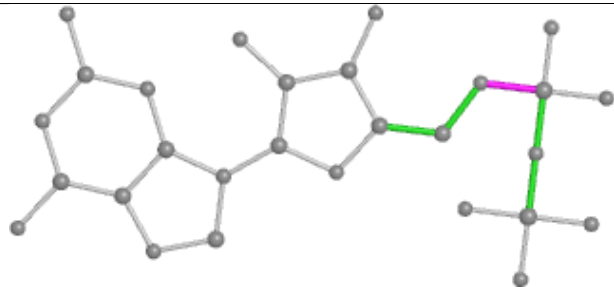
Ligand GDP BX 501



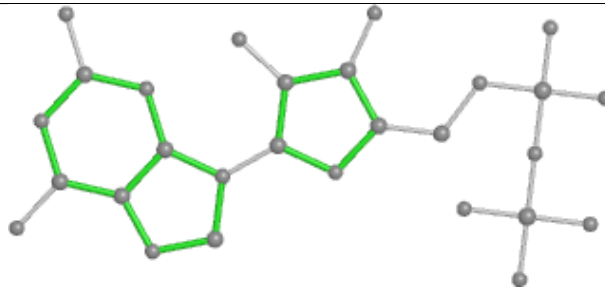
Bond lengths



Bond angles

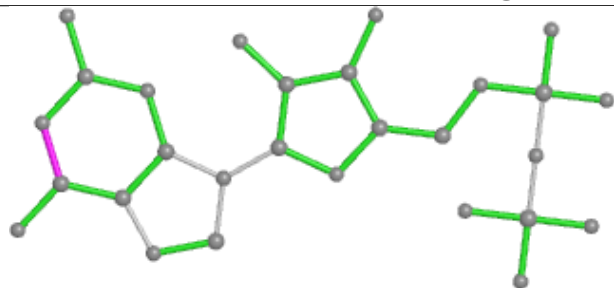


Torsions

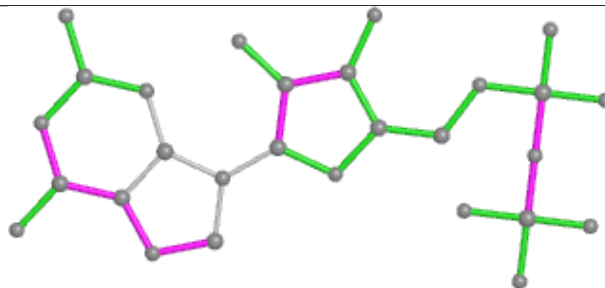


Rings

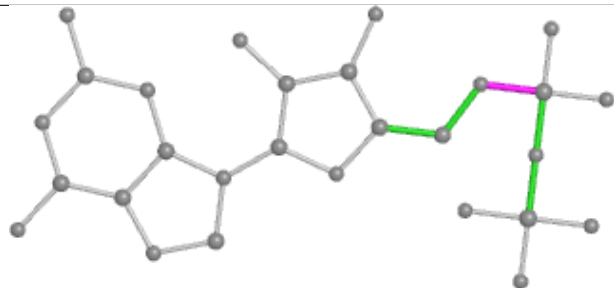
Ligand GDP NB 501



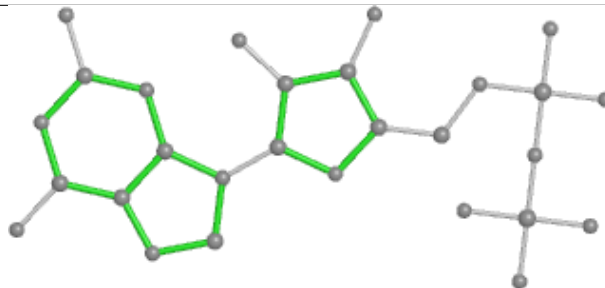
Bond lengths



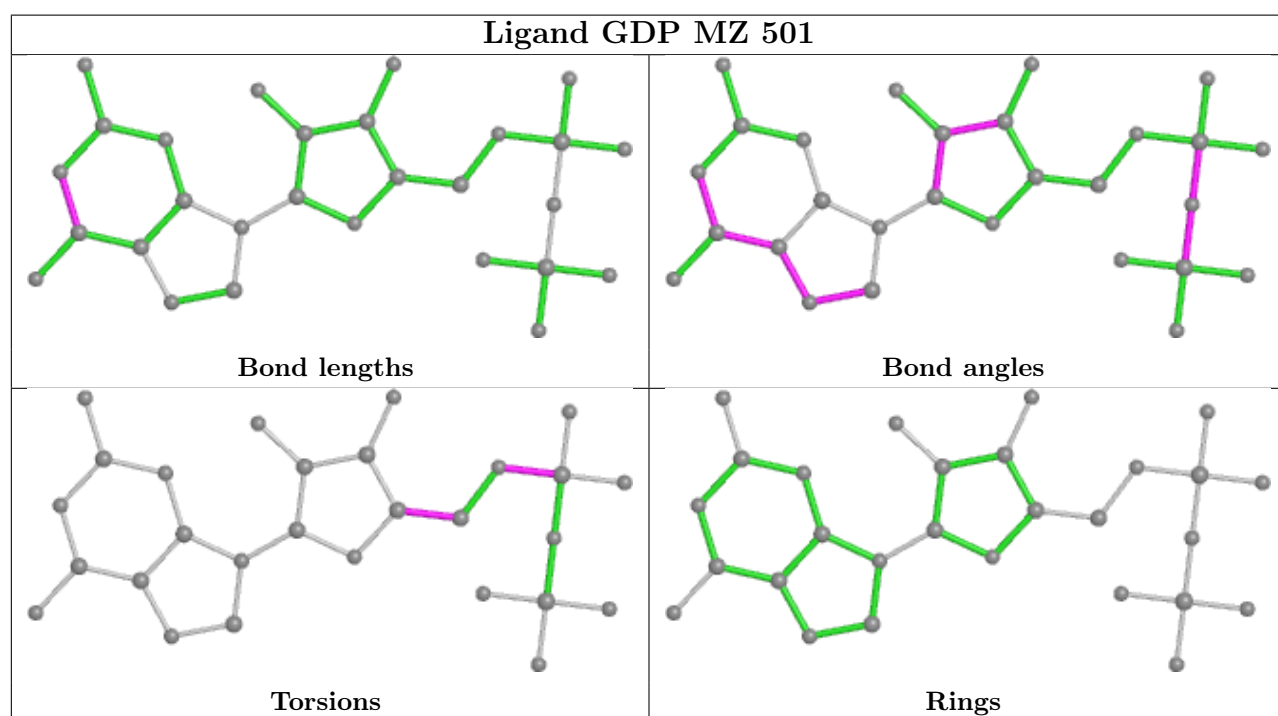
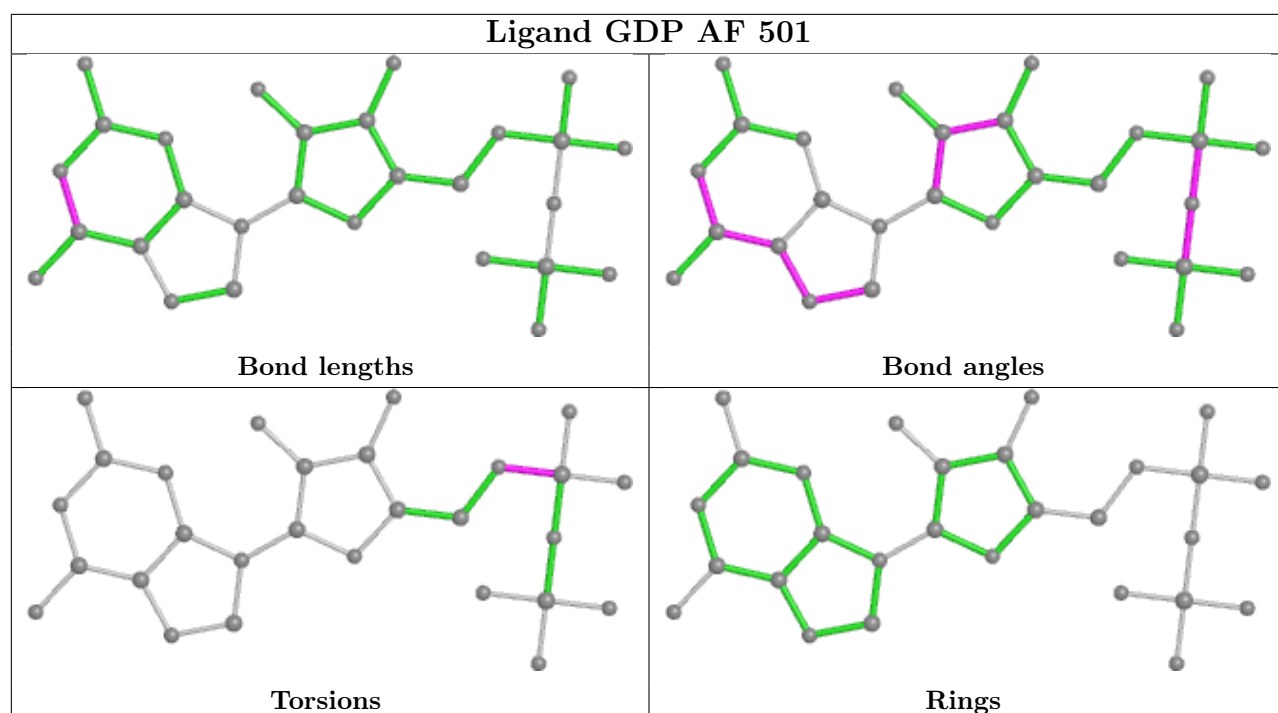
Bond angles

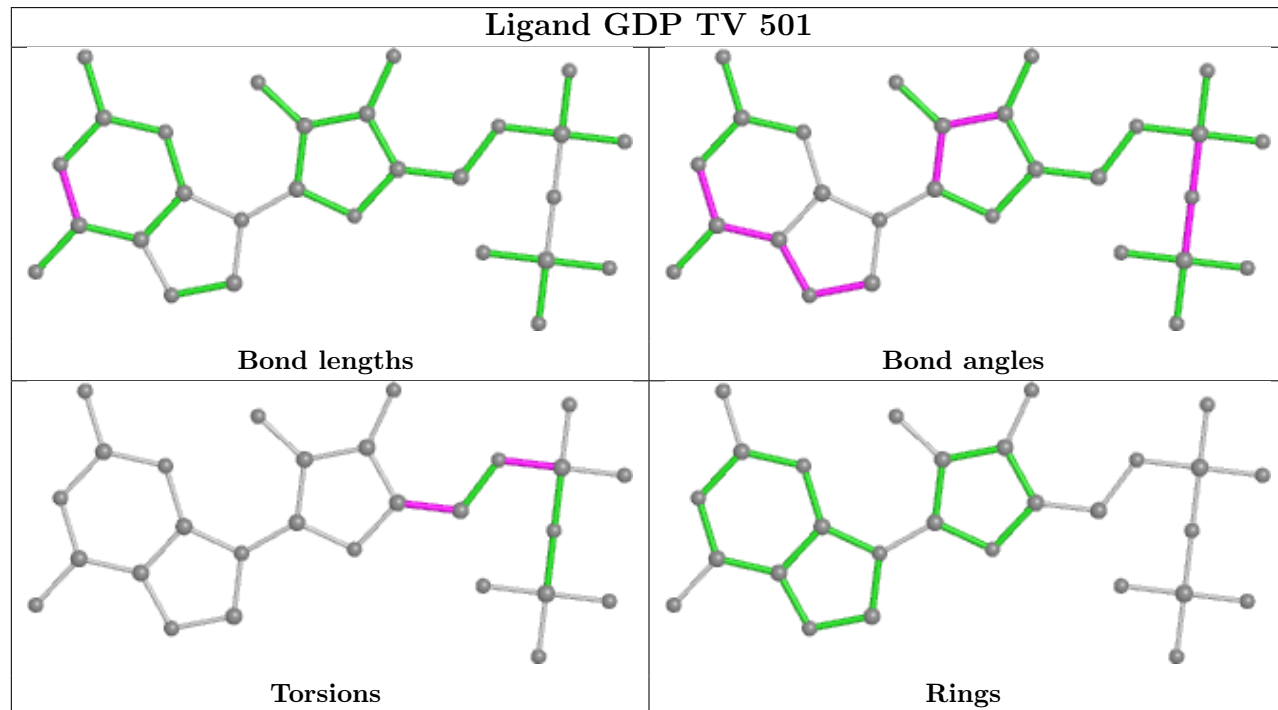
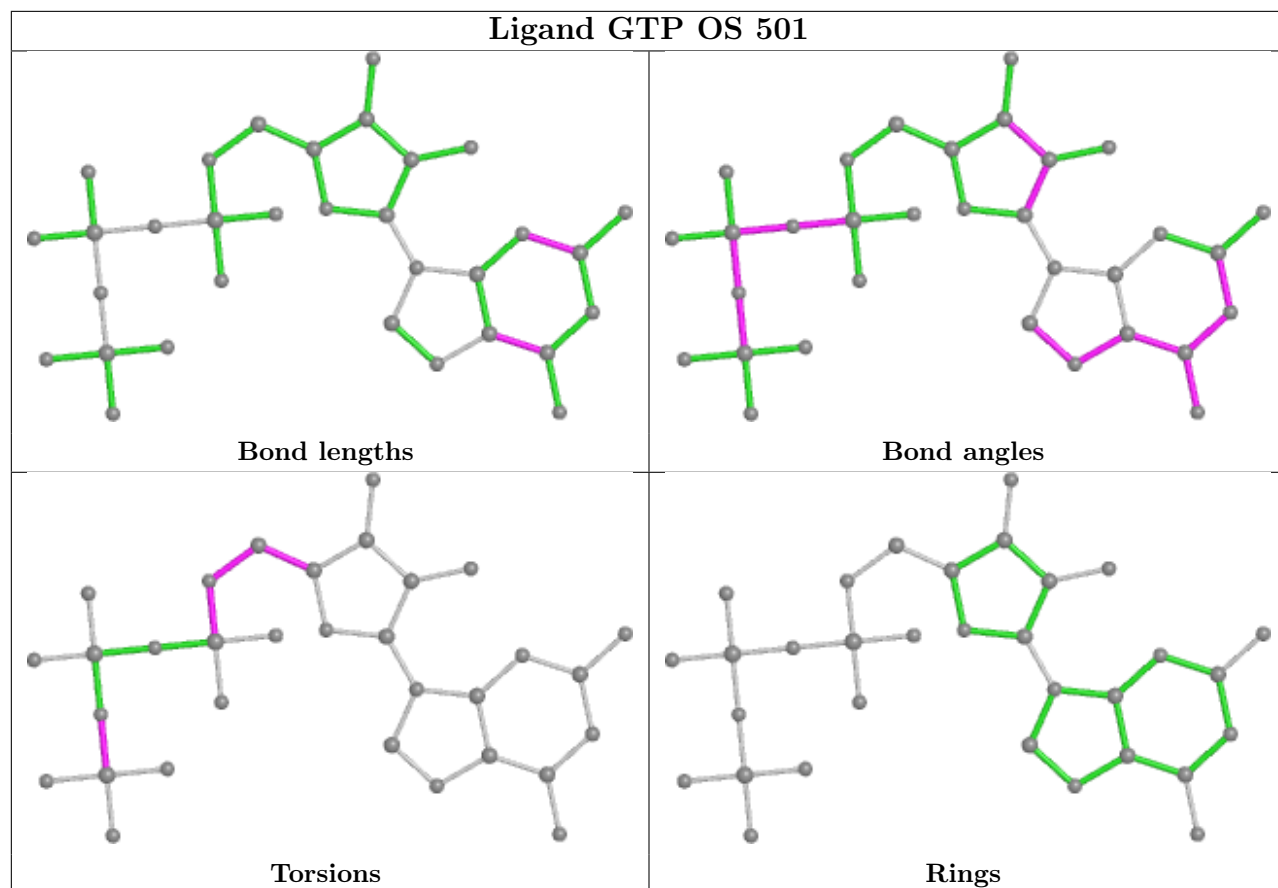


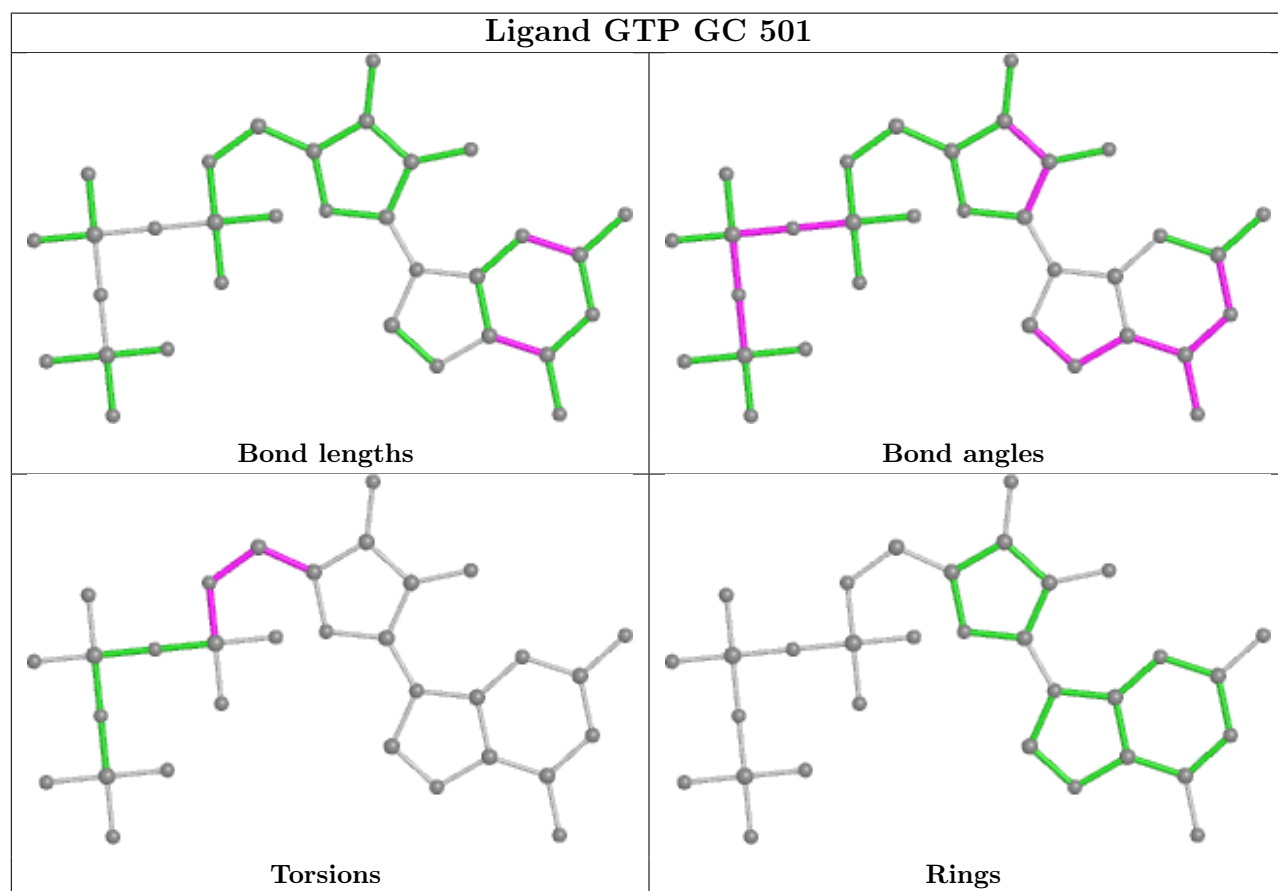
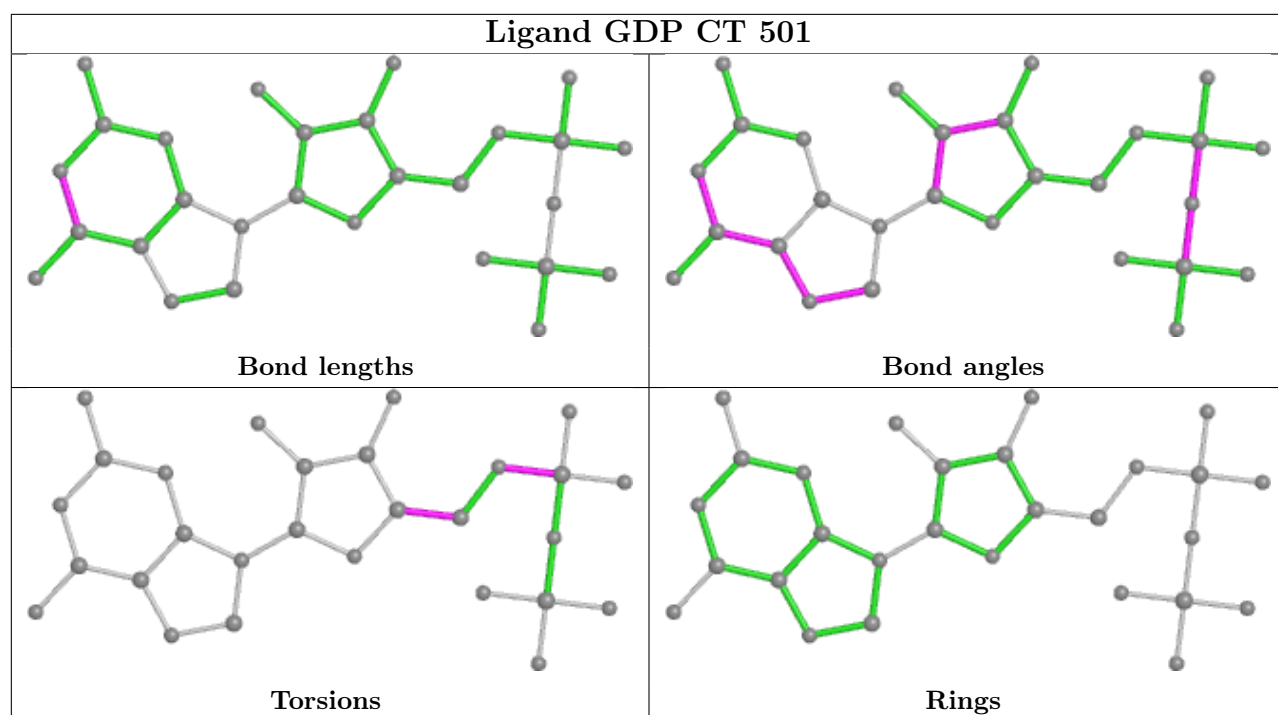
Torsions

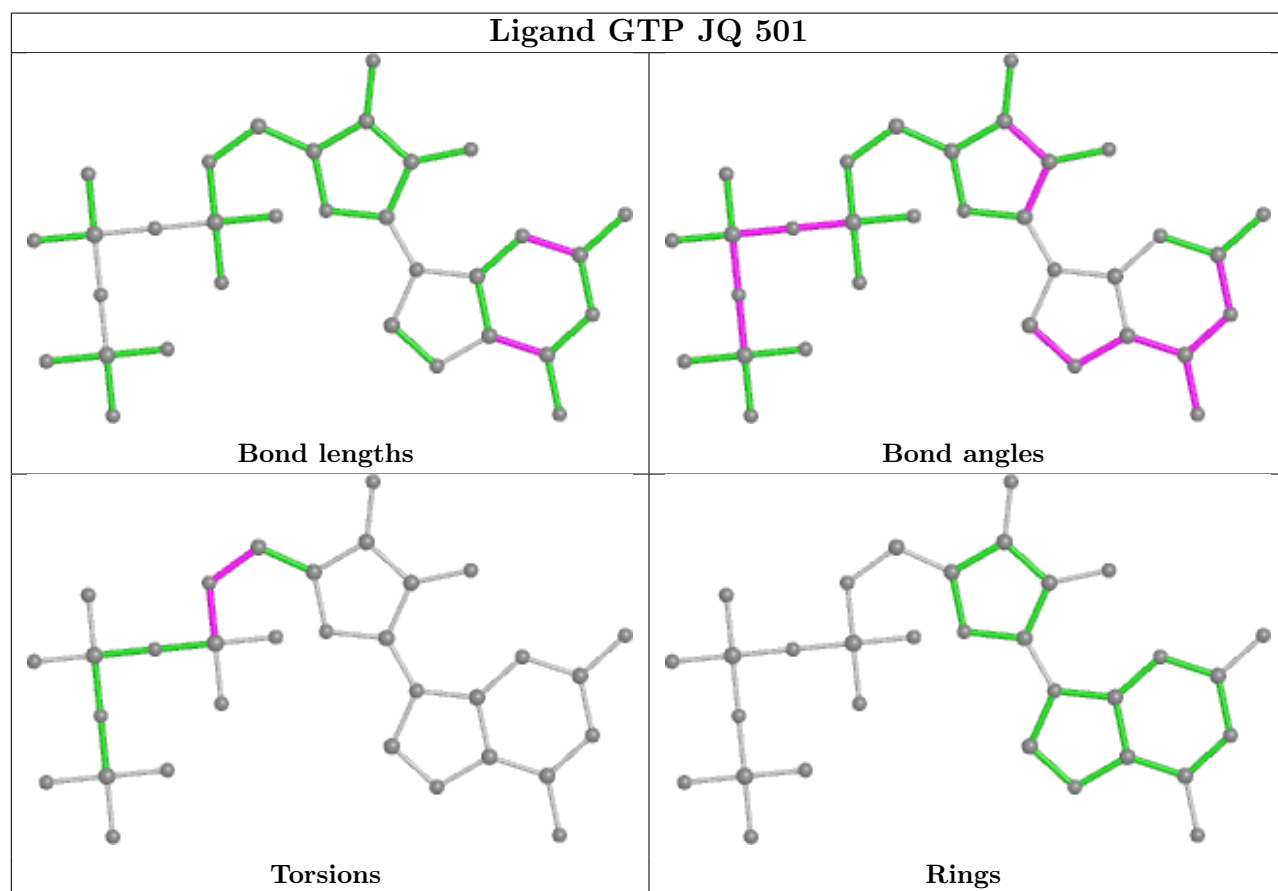
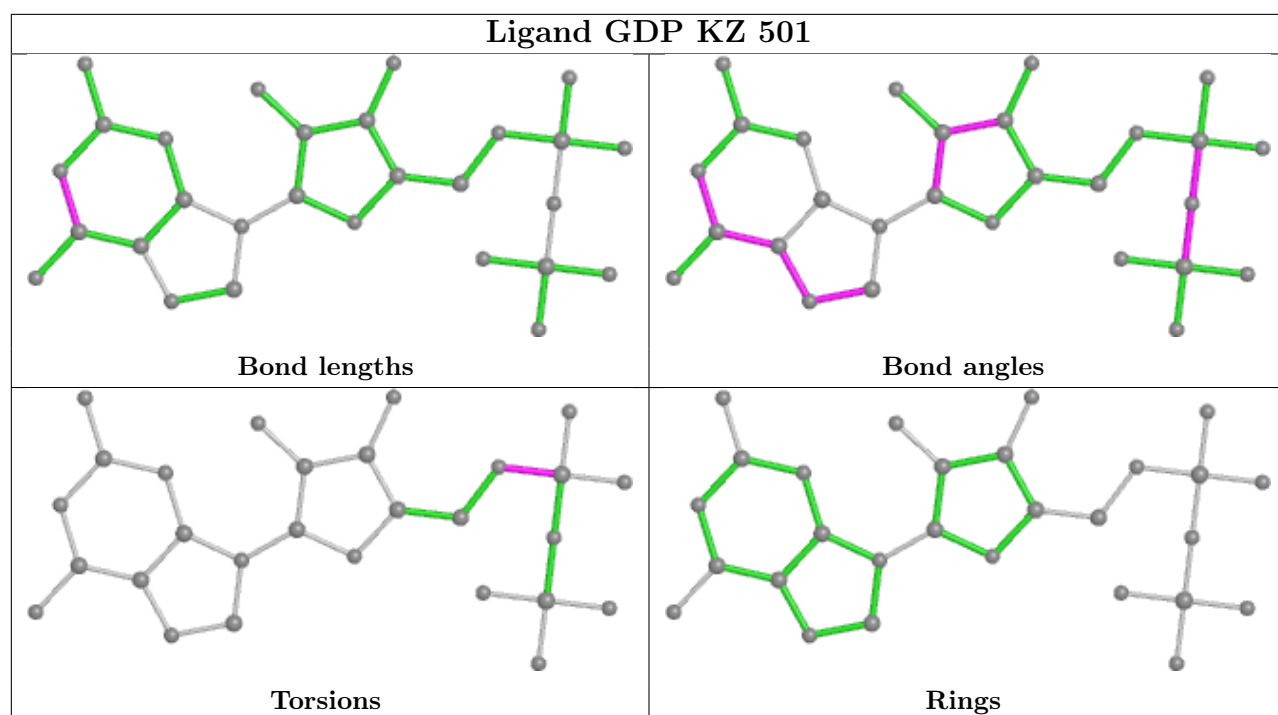


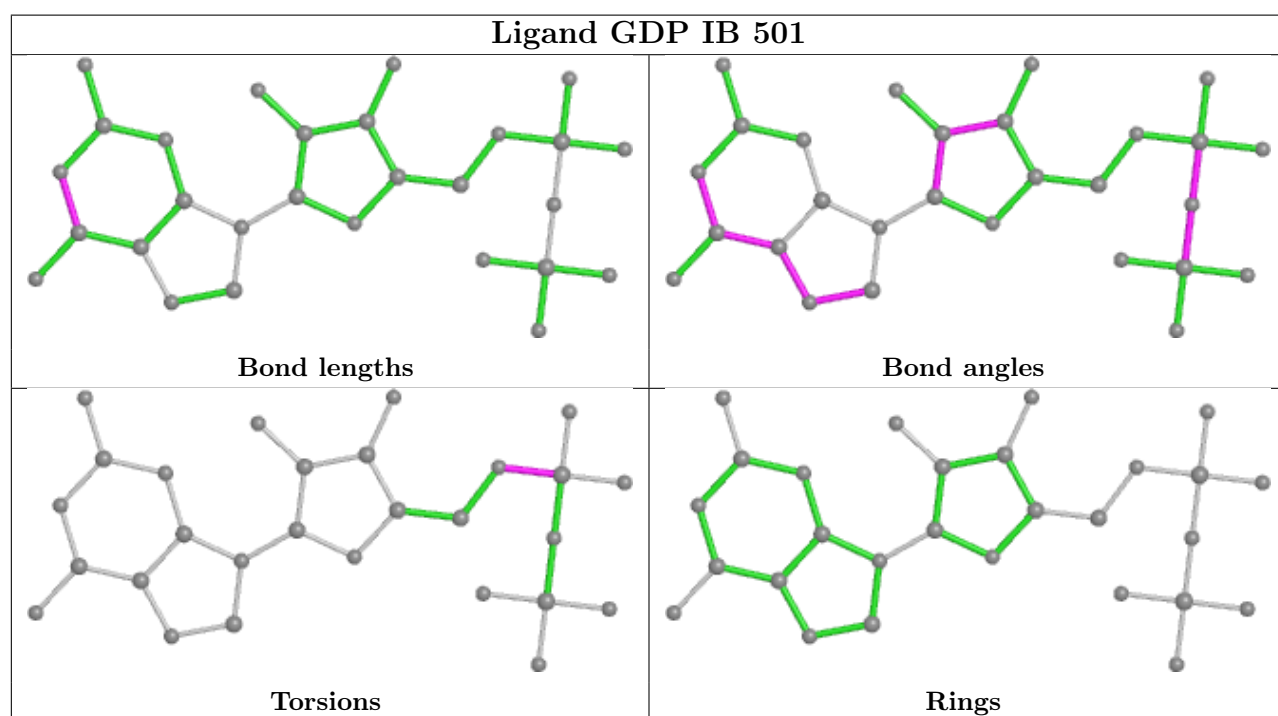
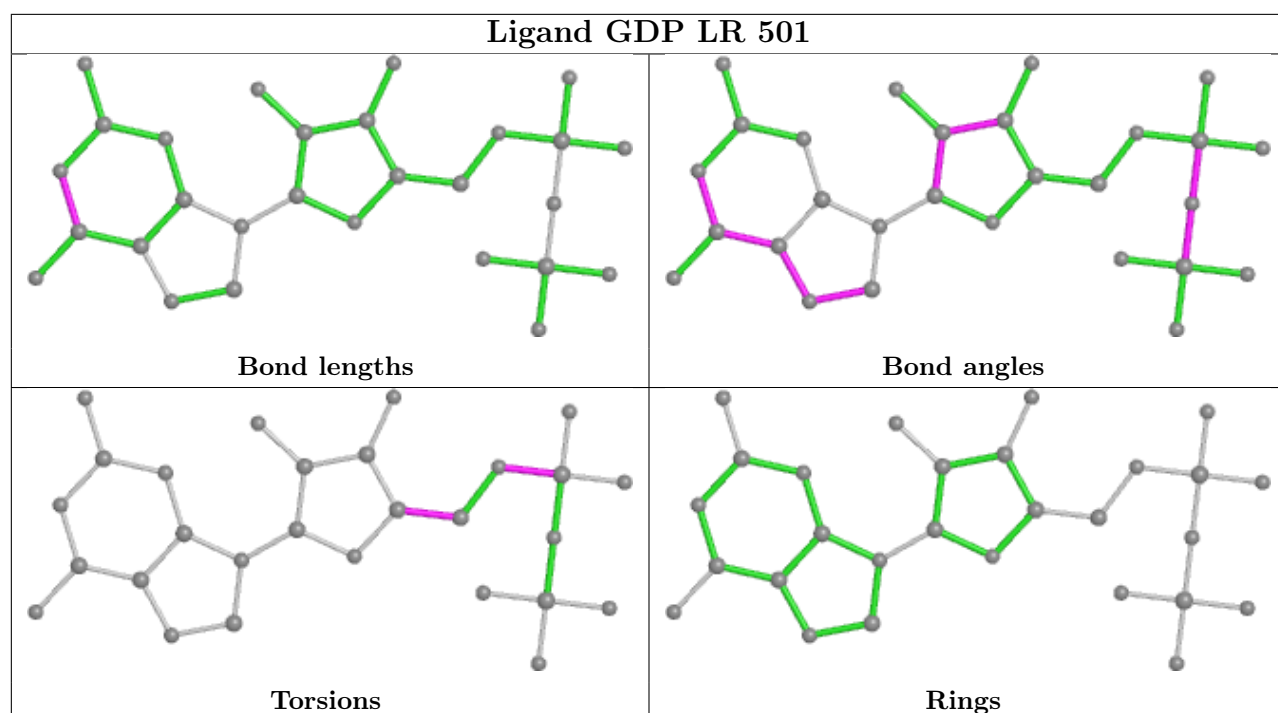
Rings

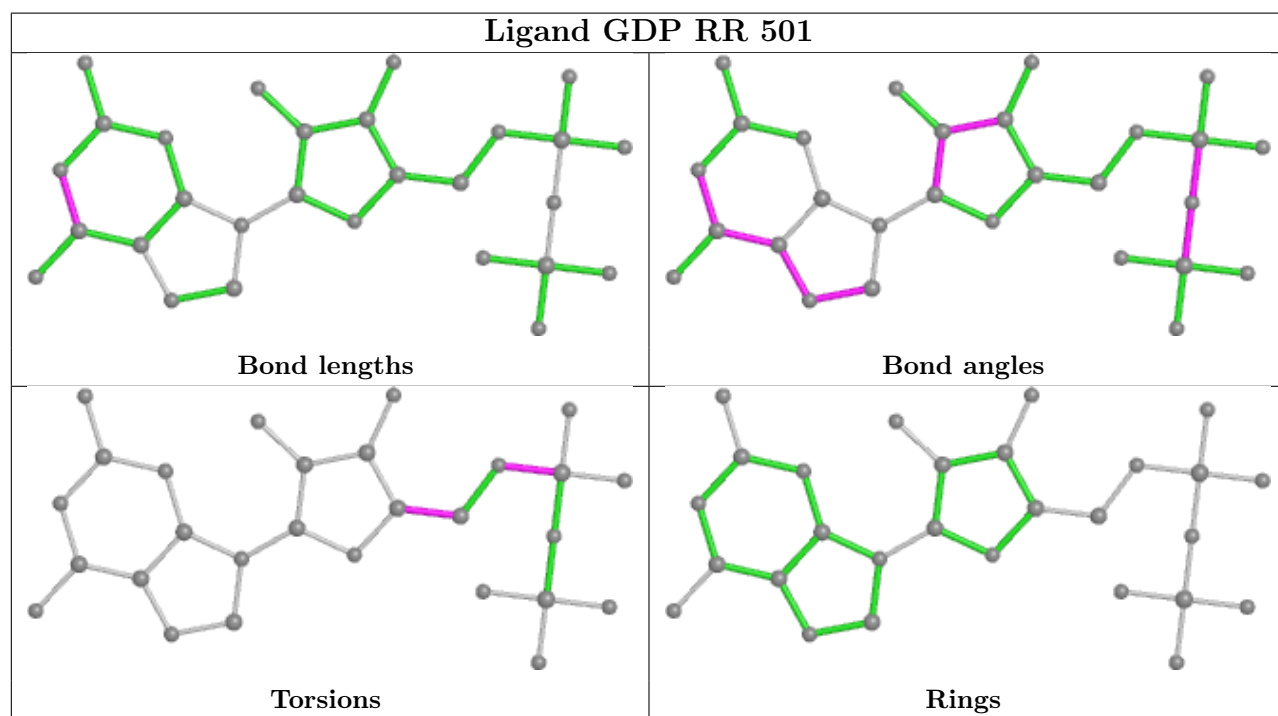
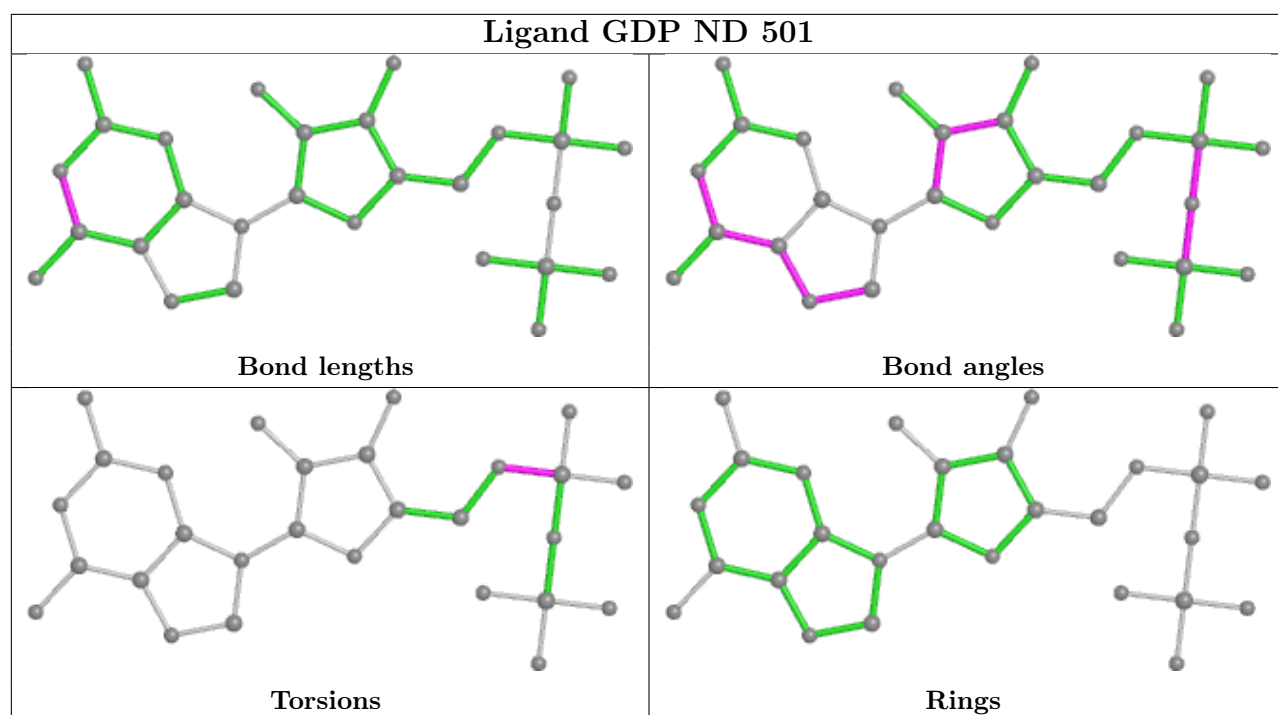


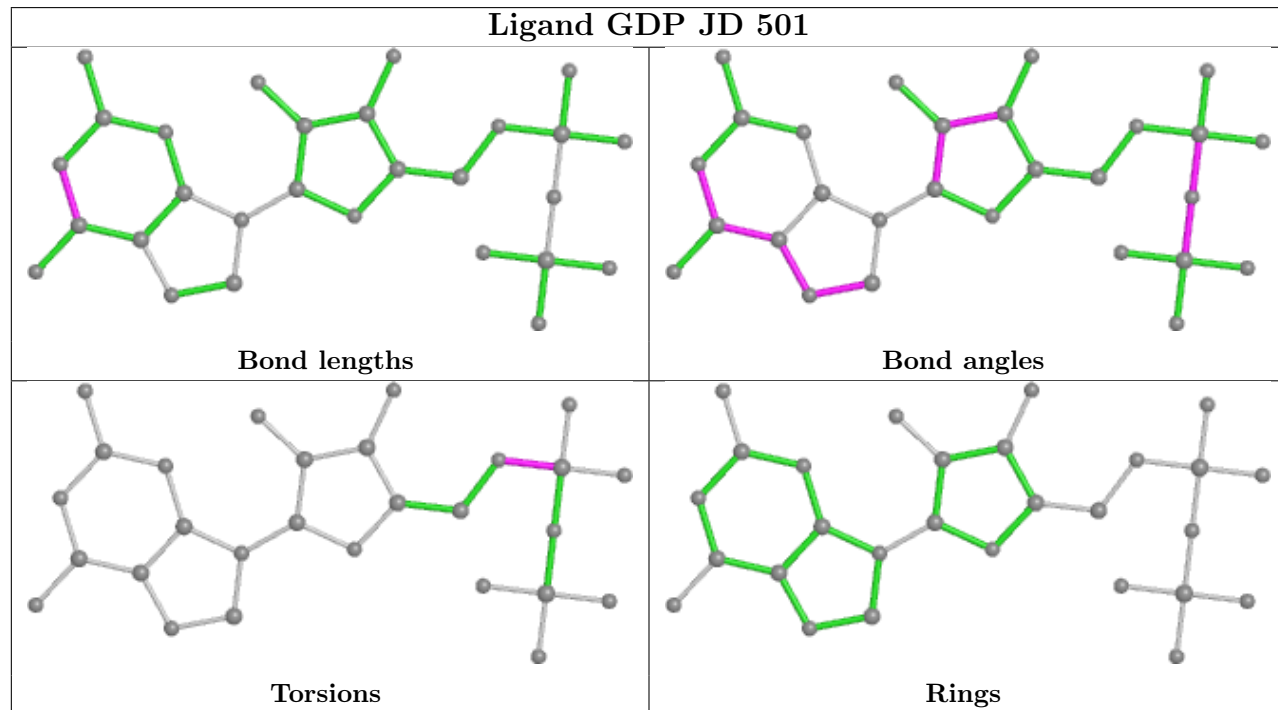
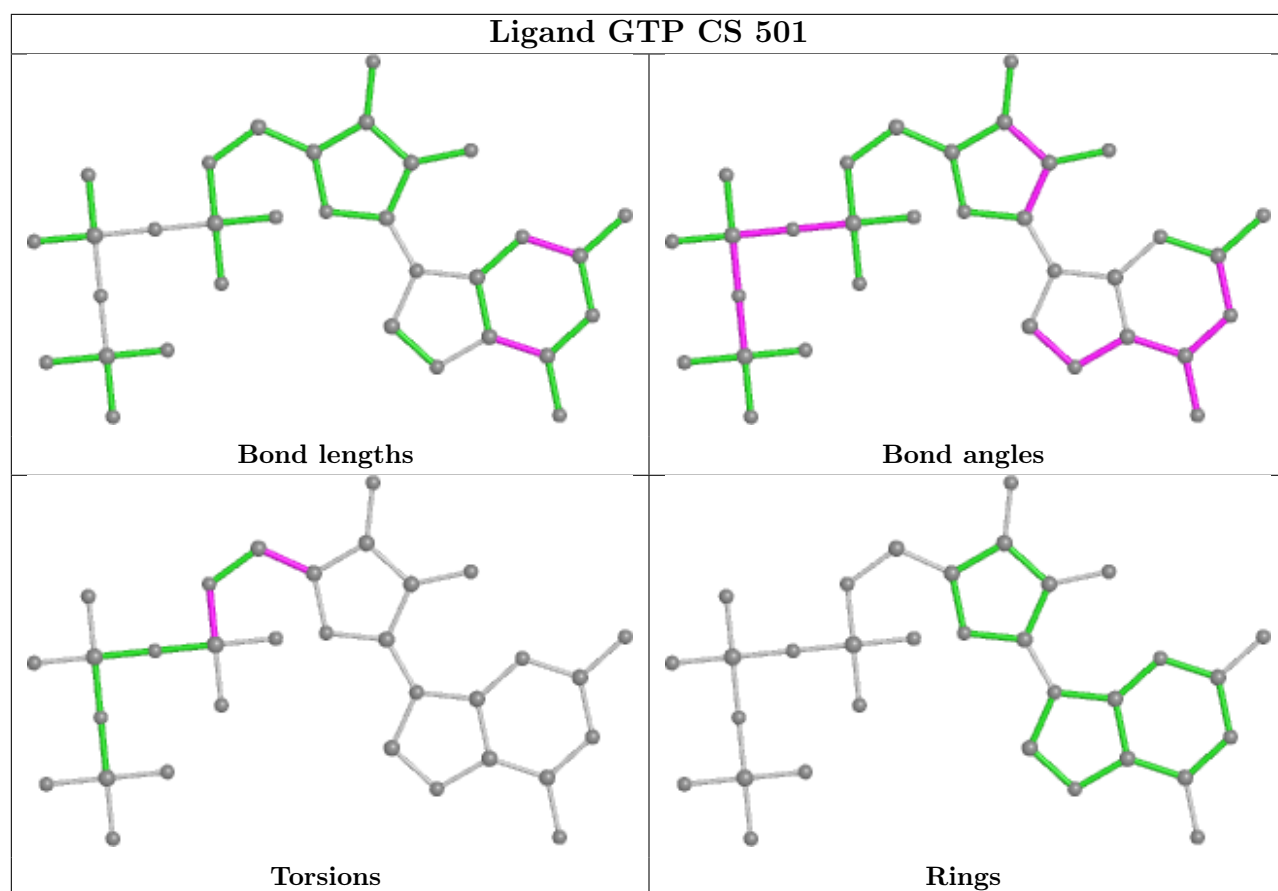




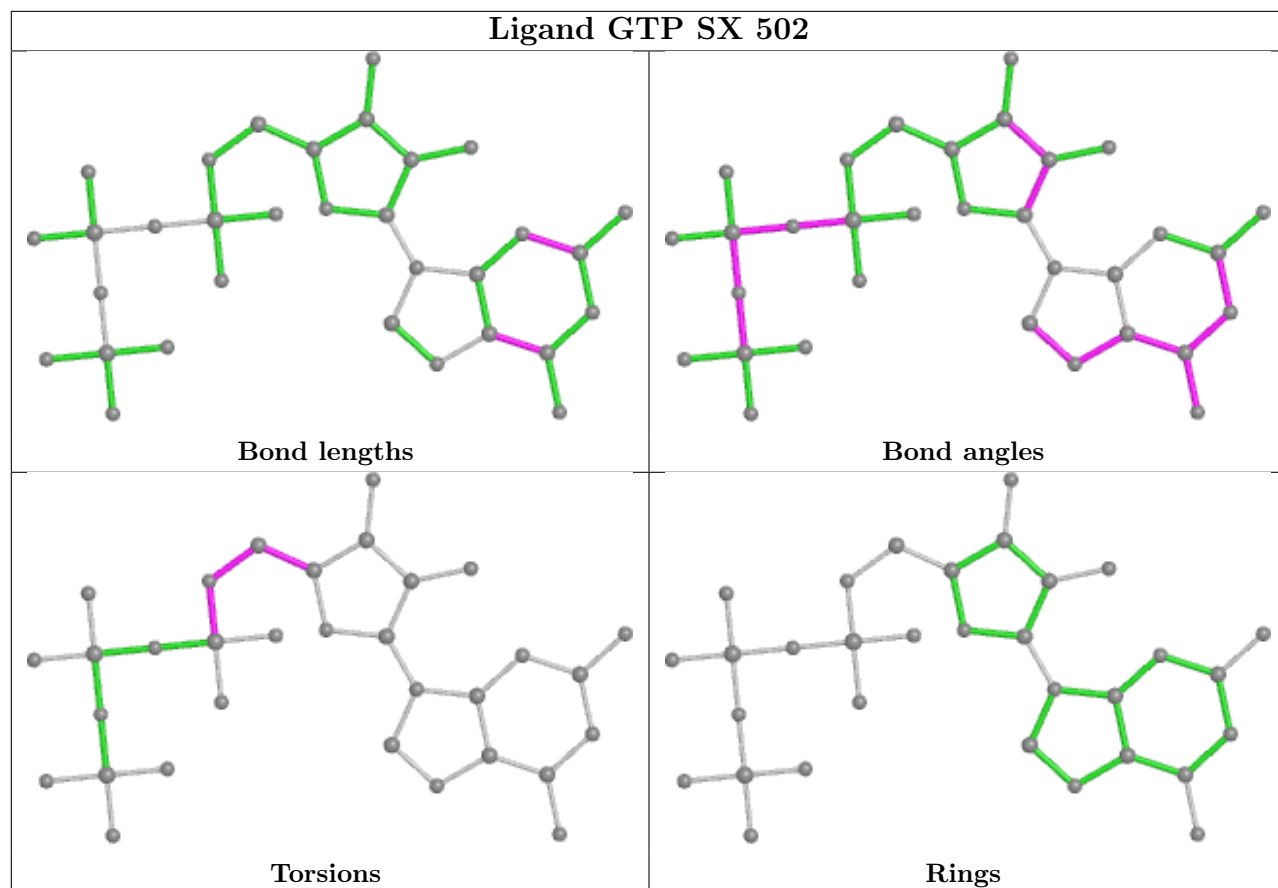




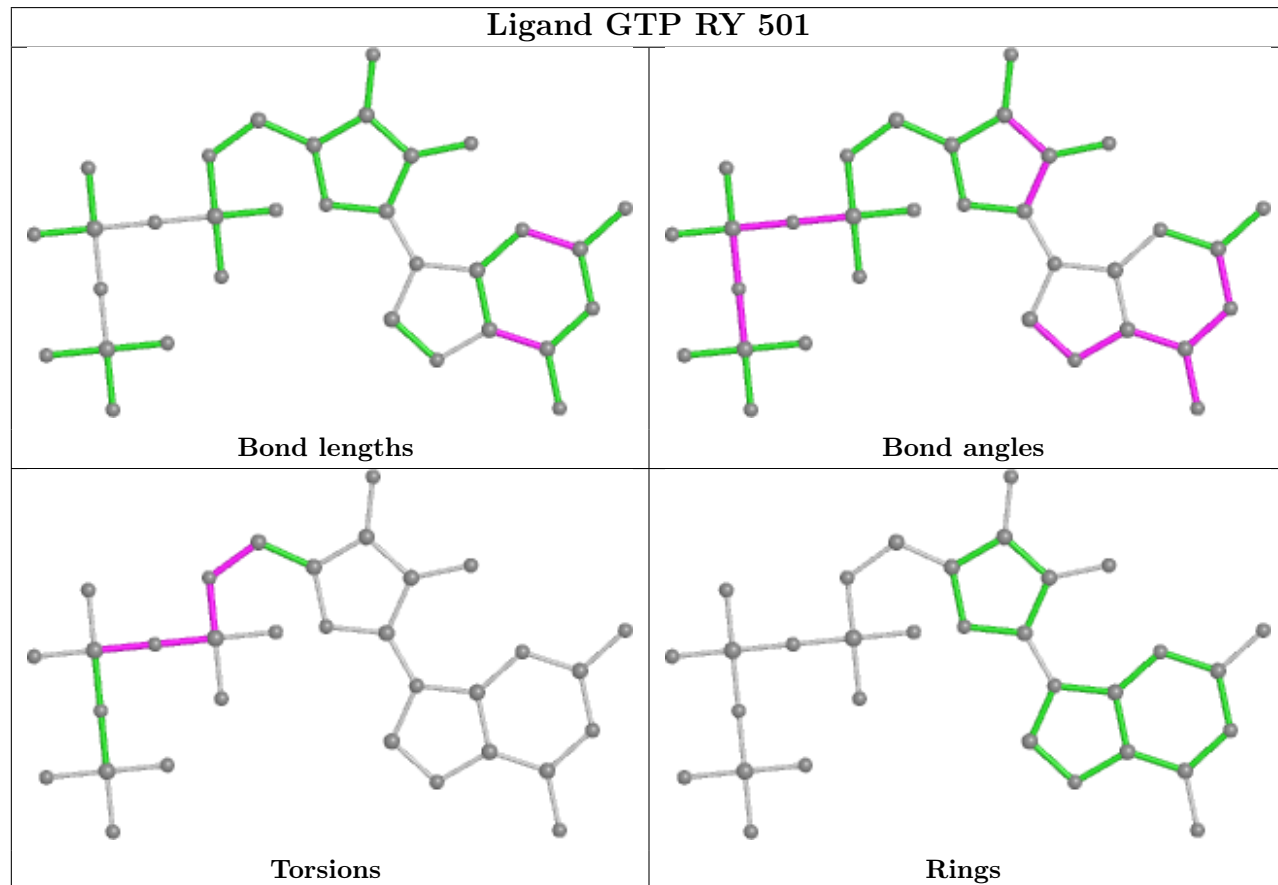


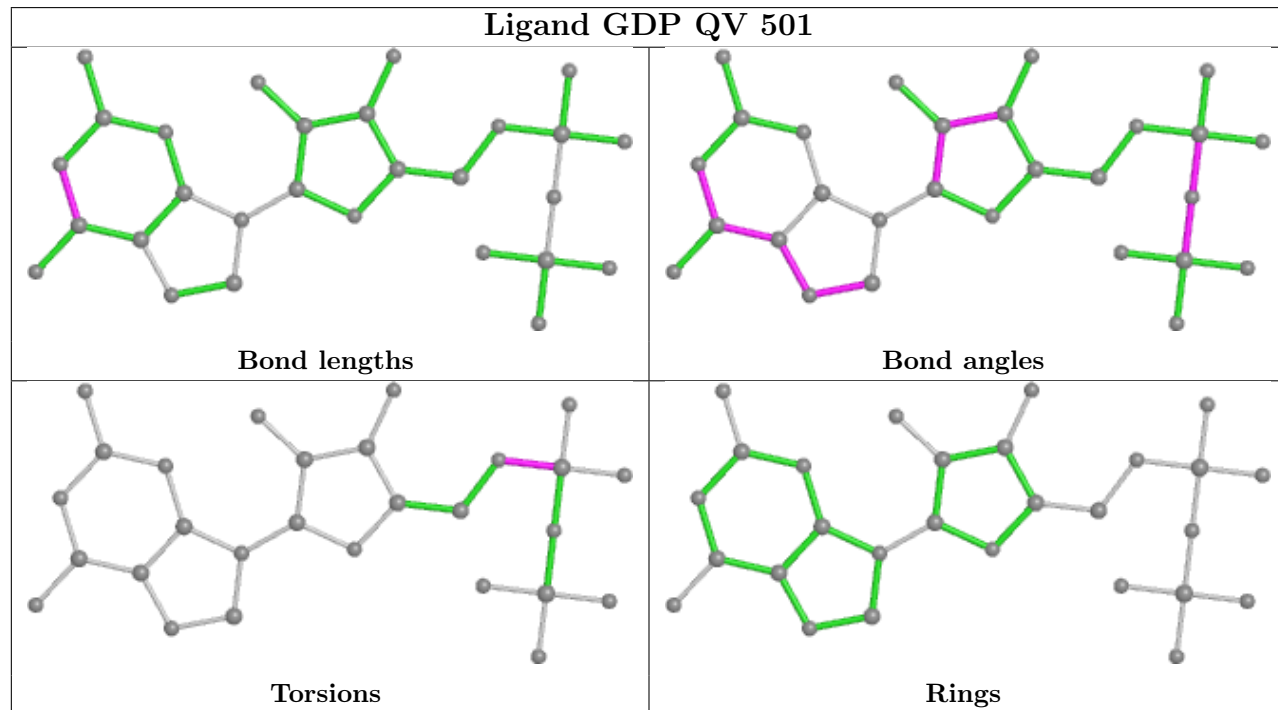
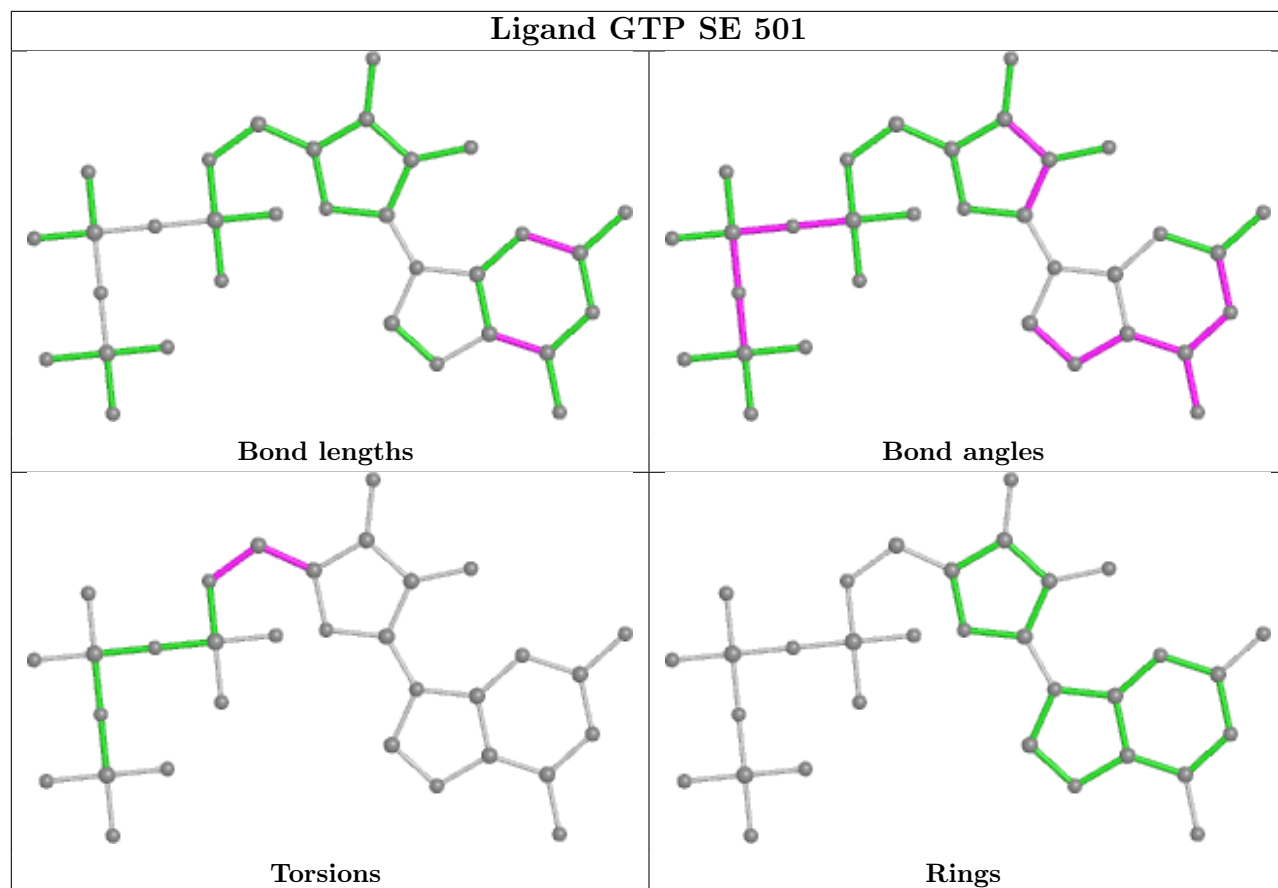


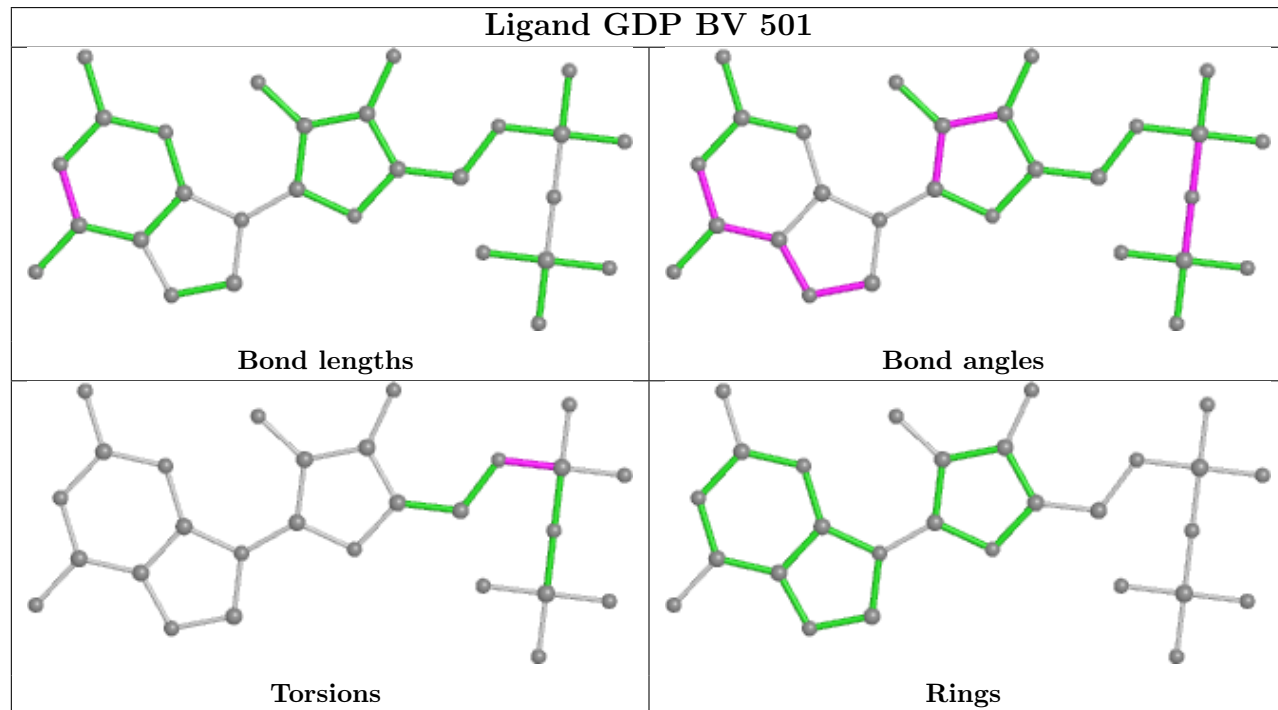
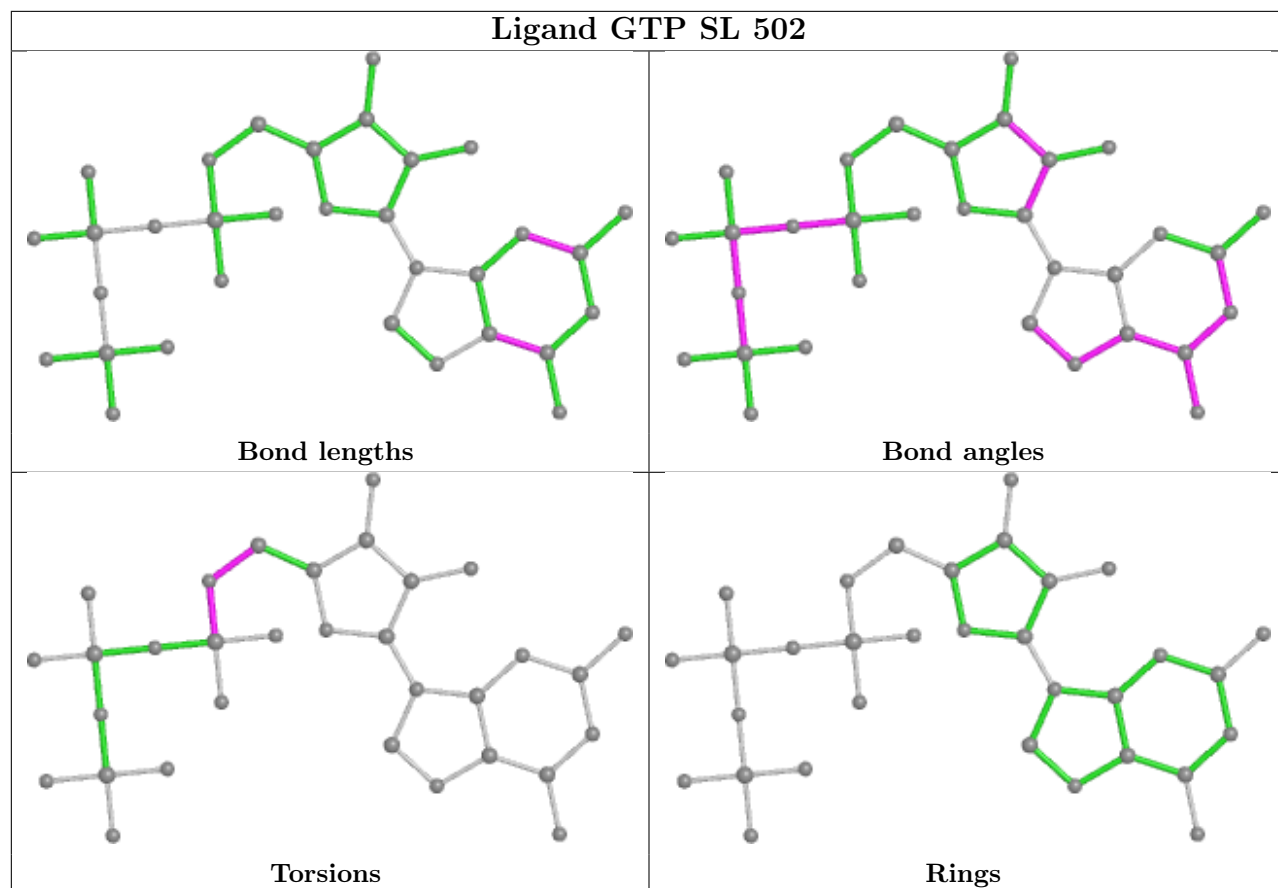
Ligand GTP SX 502



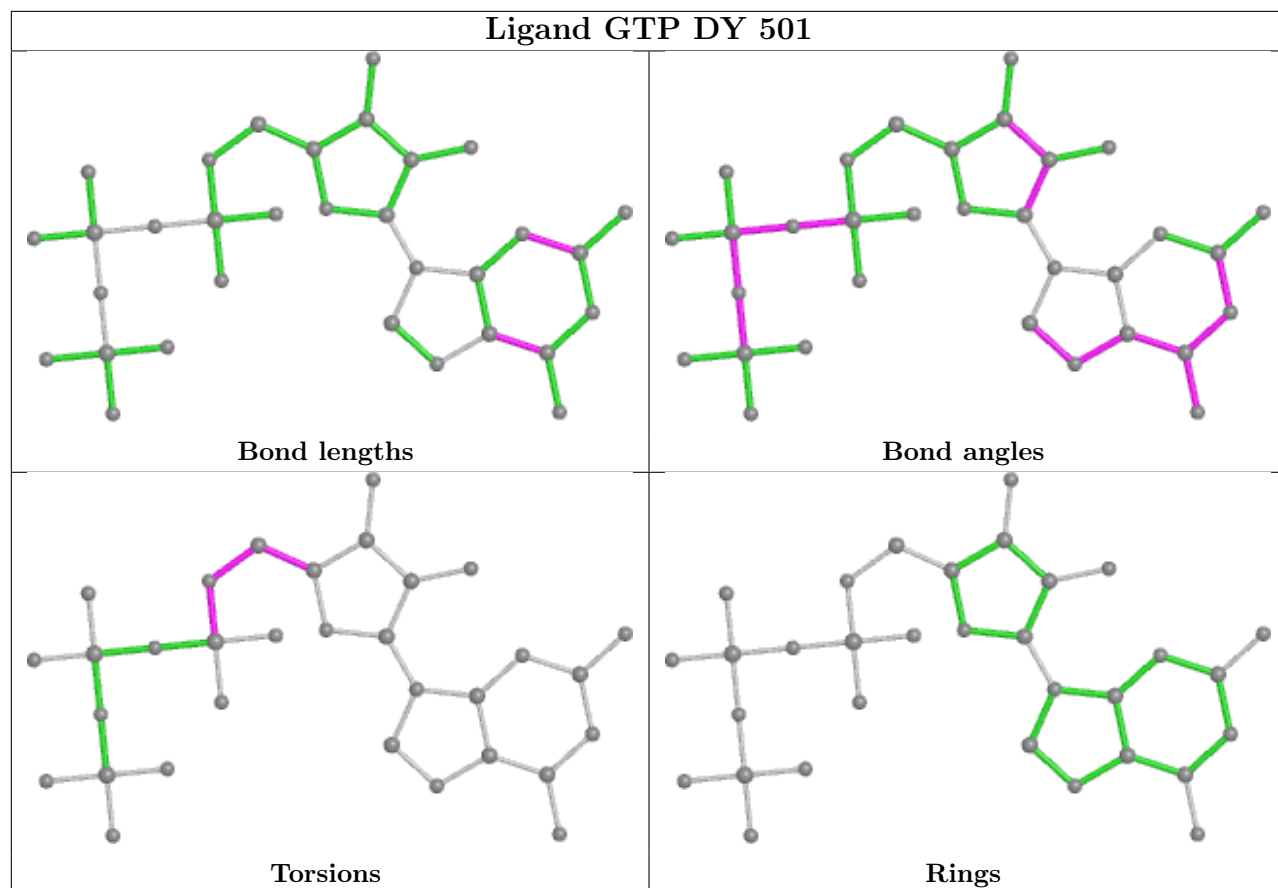
Ligand GTP RY 501



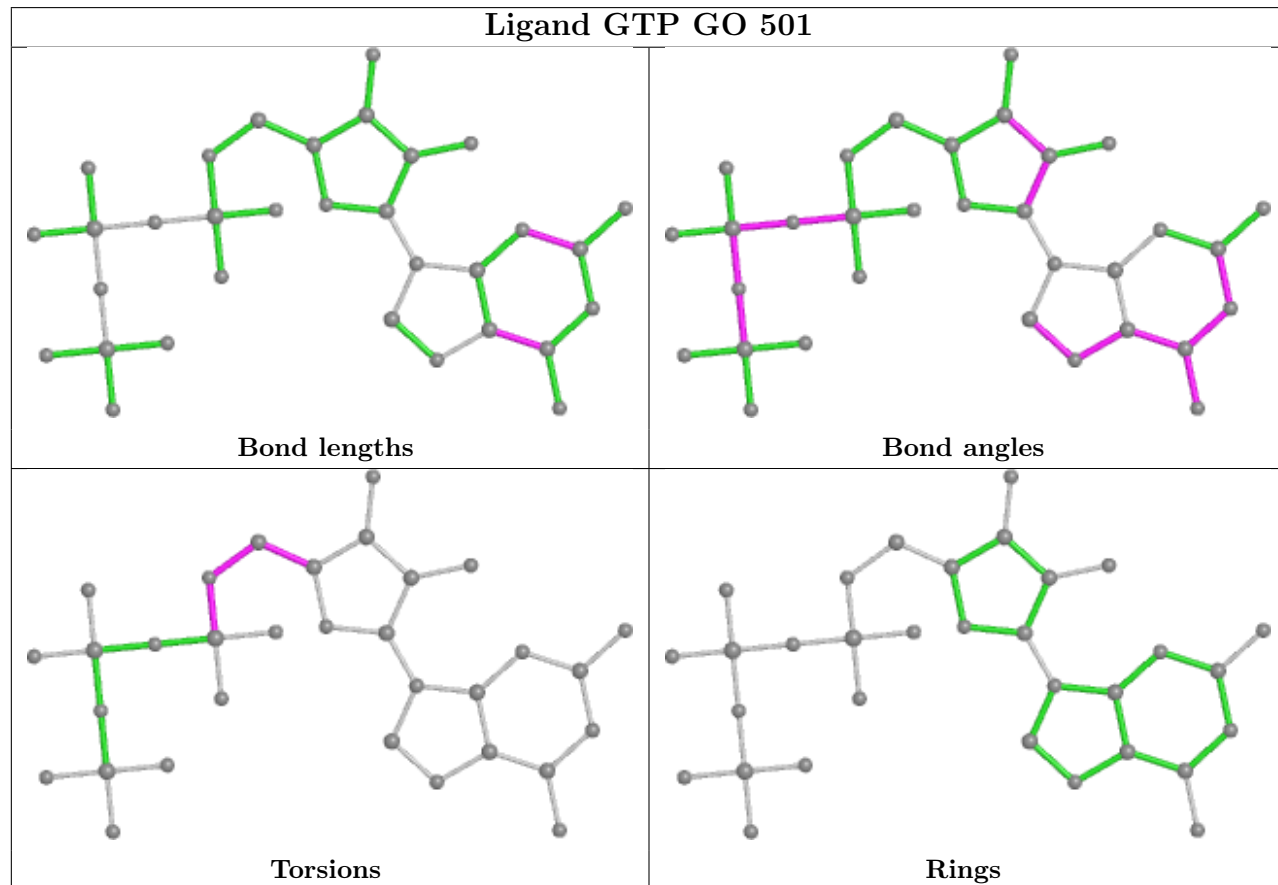




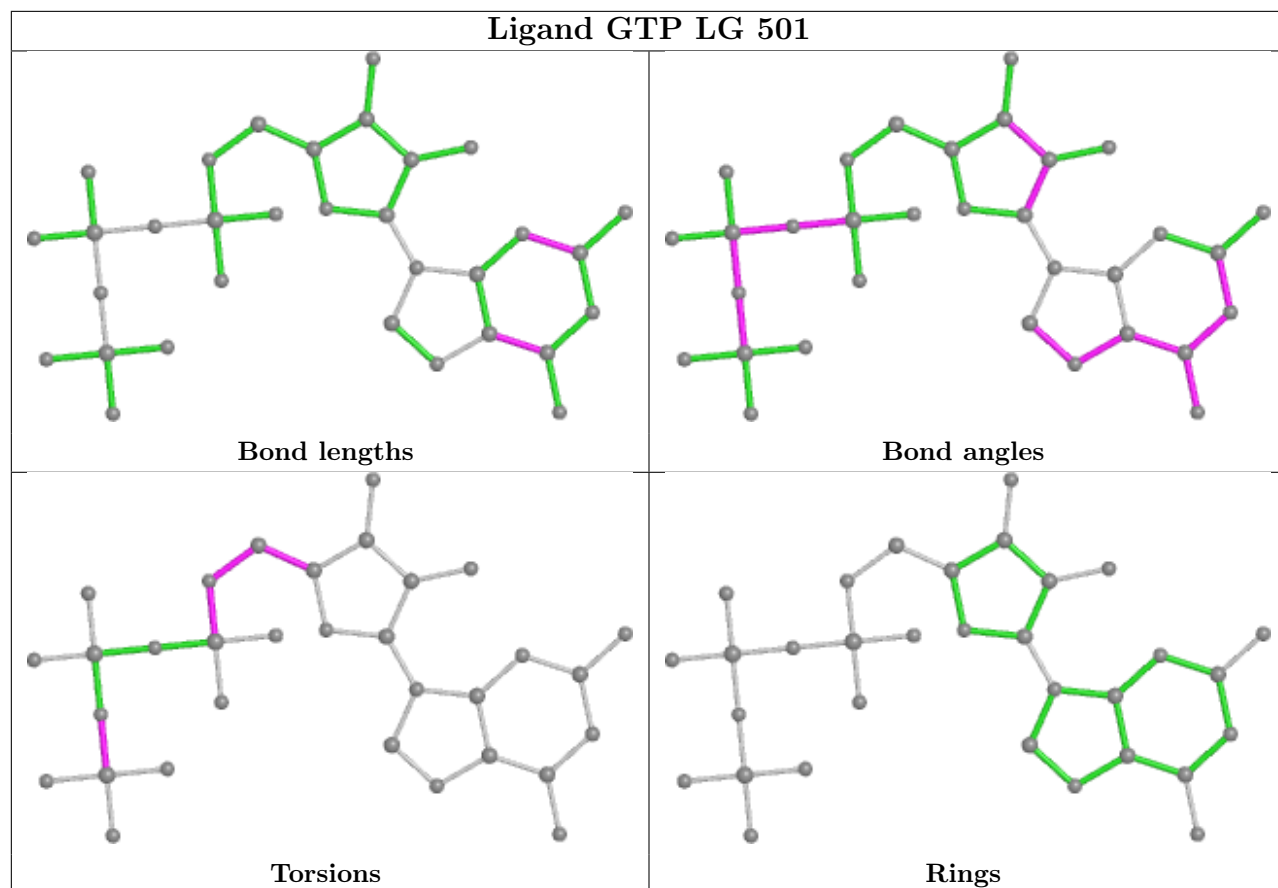
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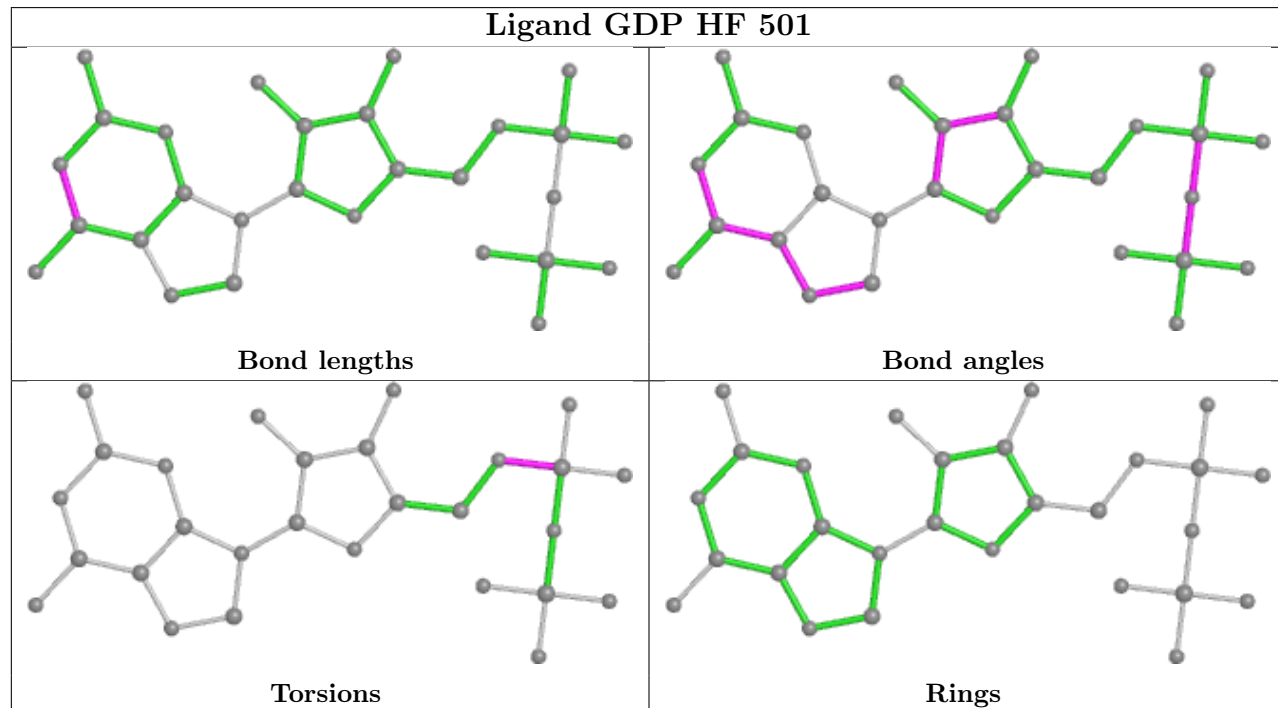
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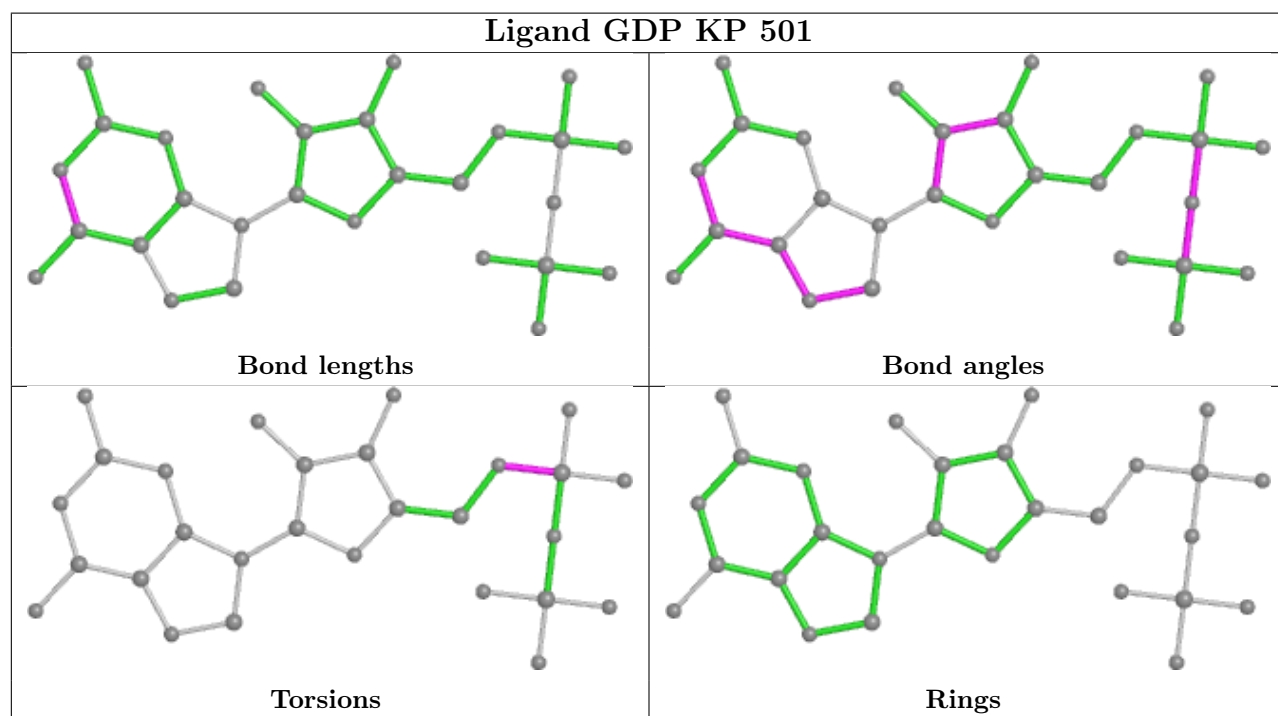
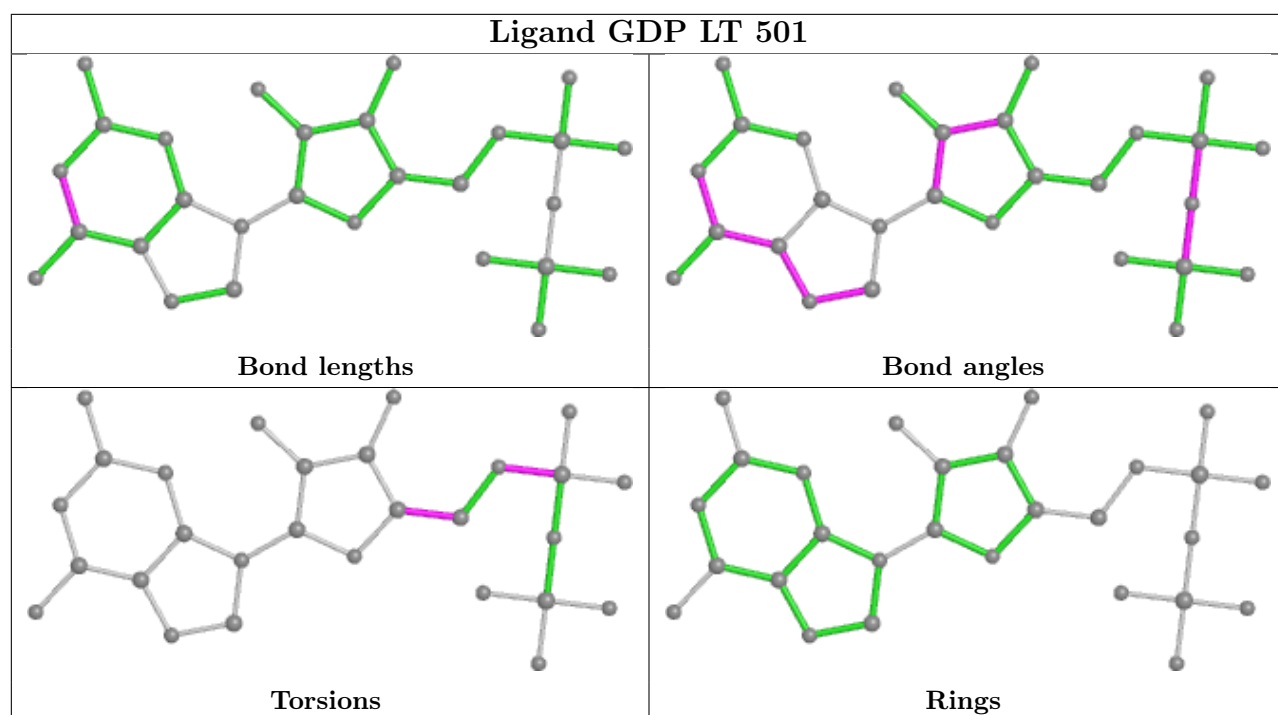


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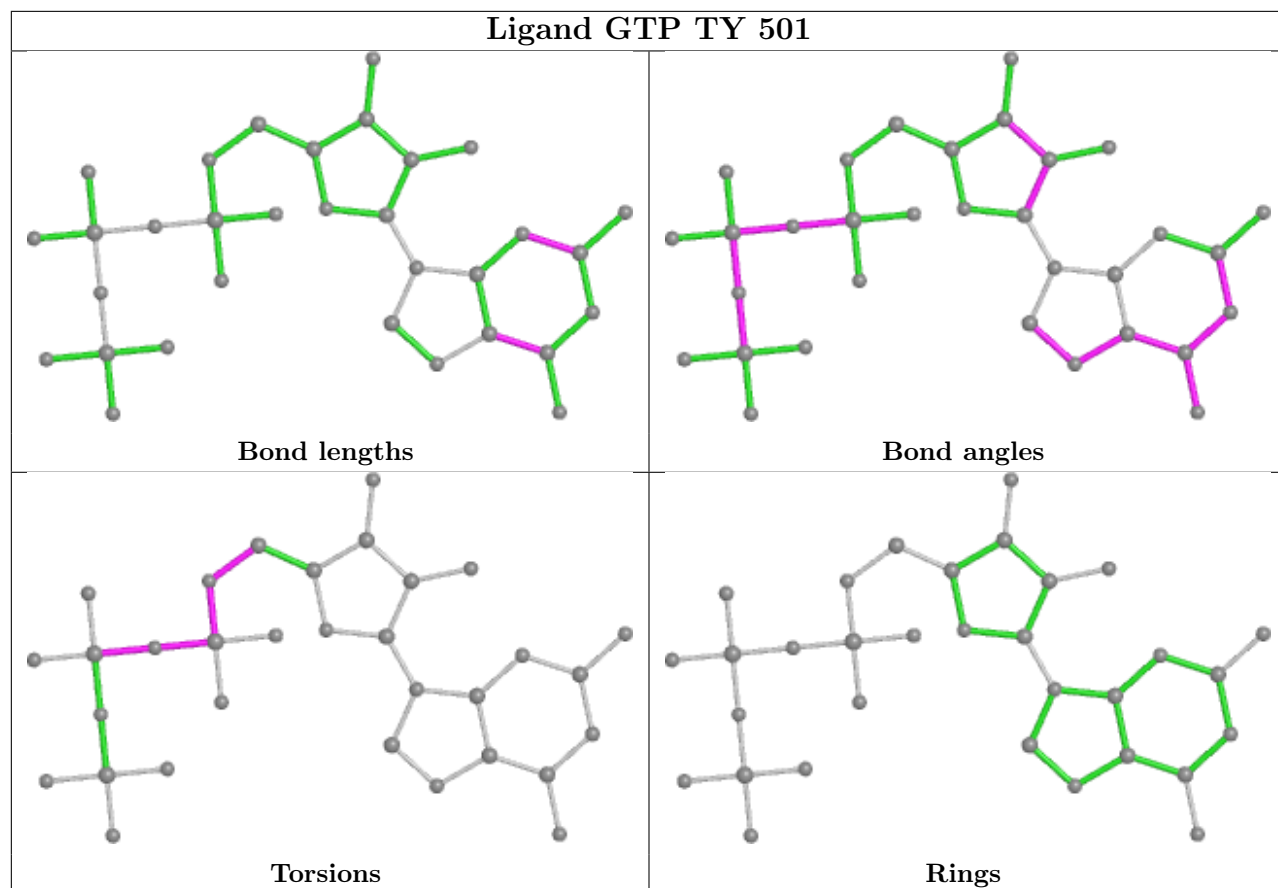


Ligand GDP HF 501

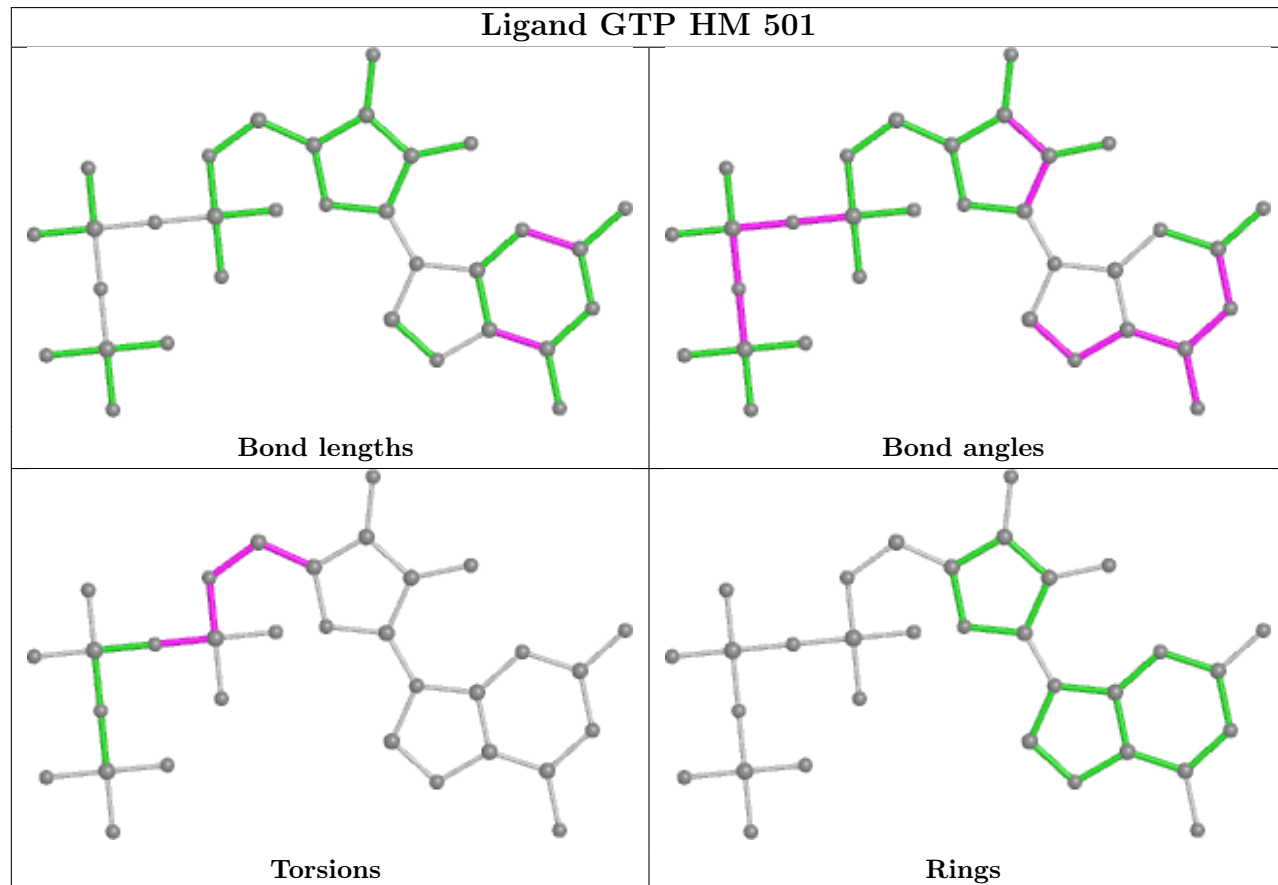




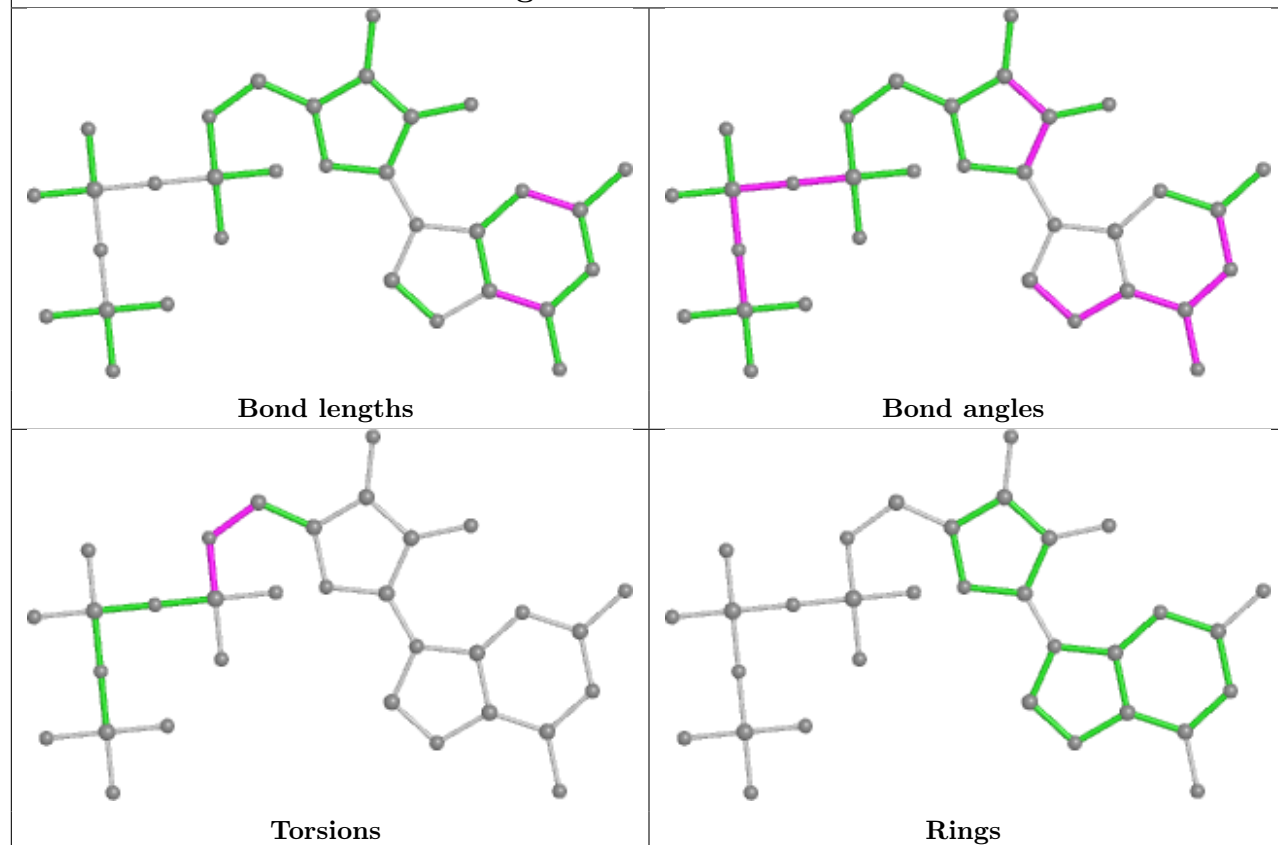
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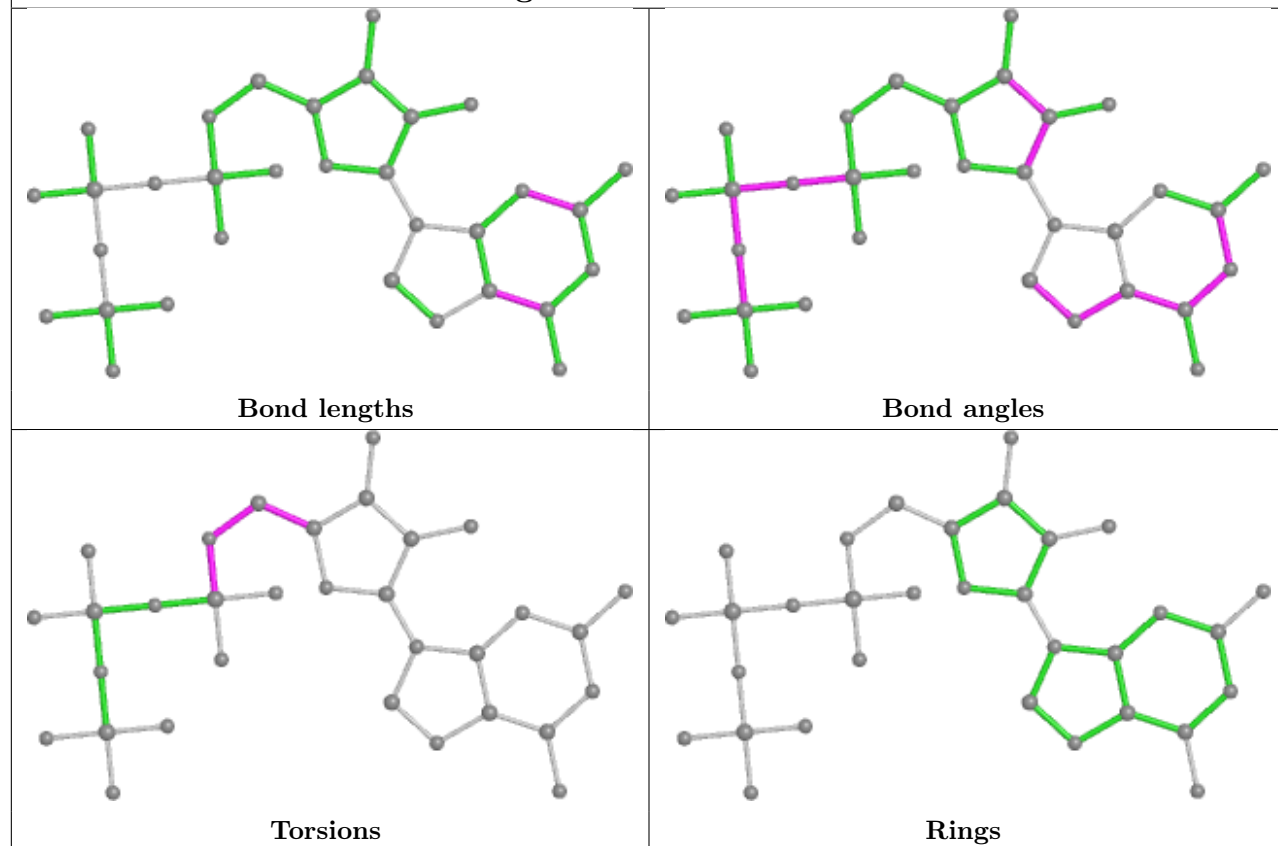
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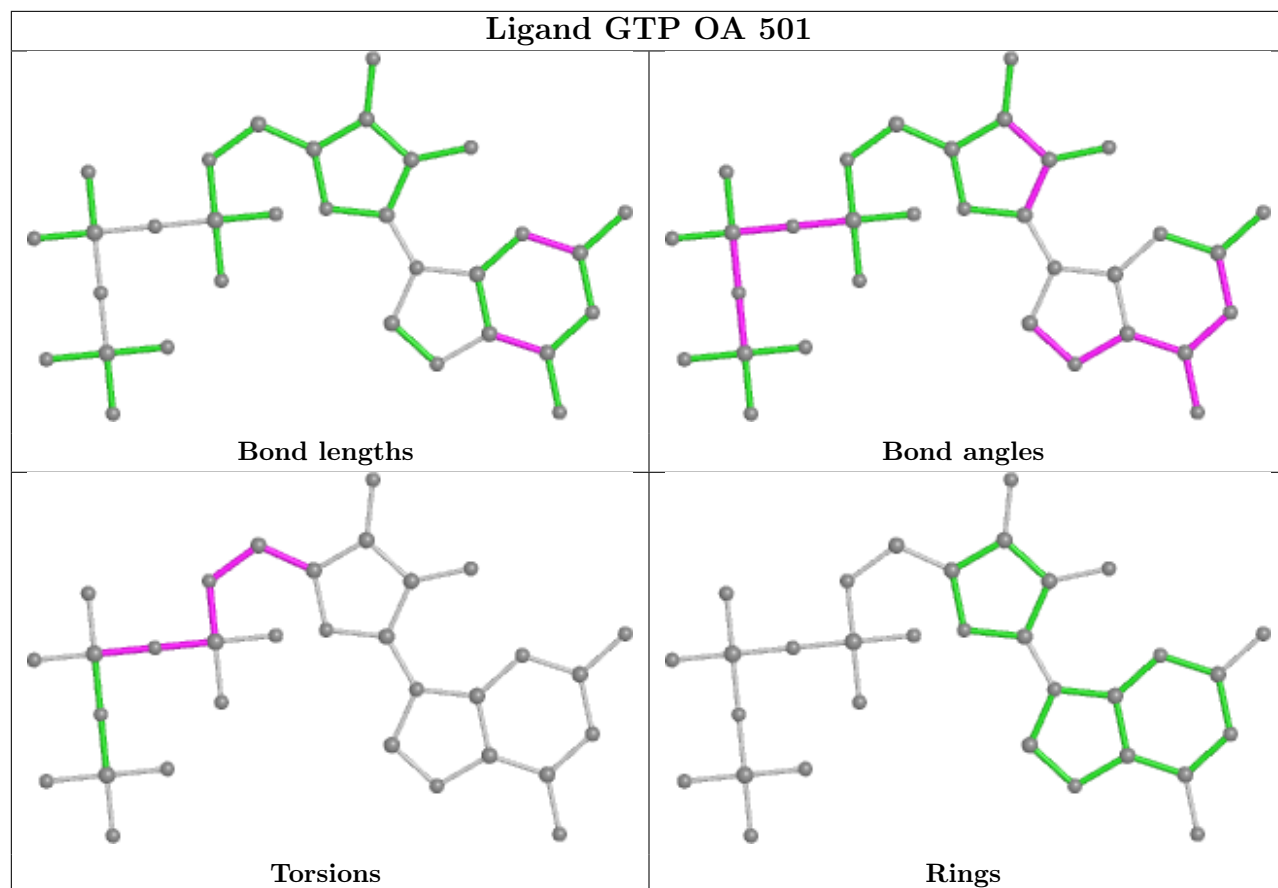
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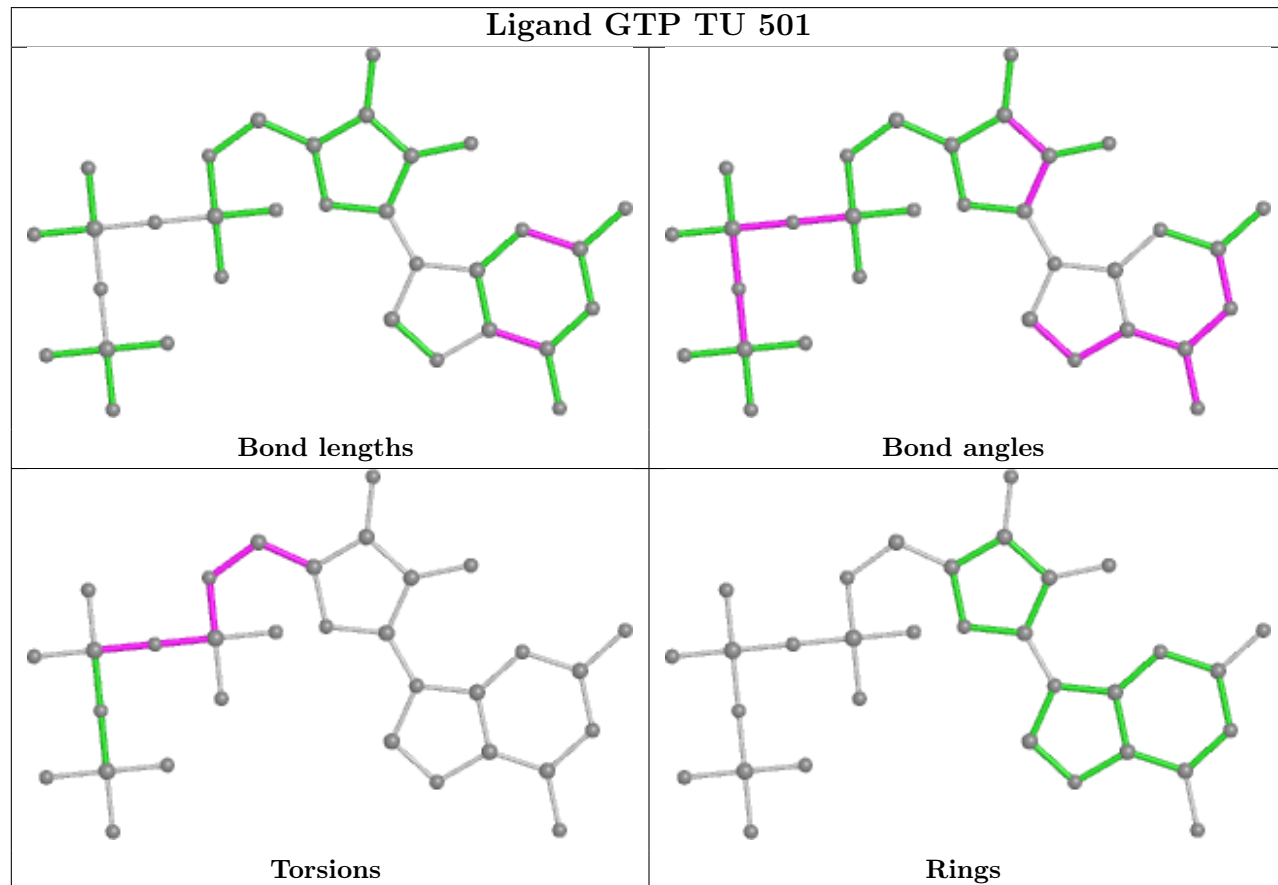
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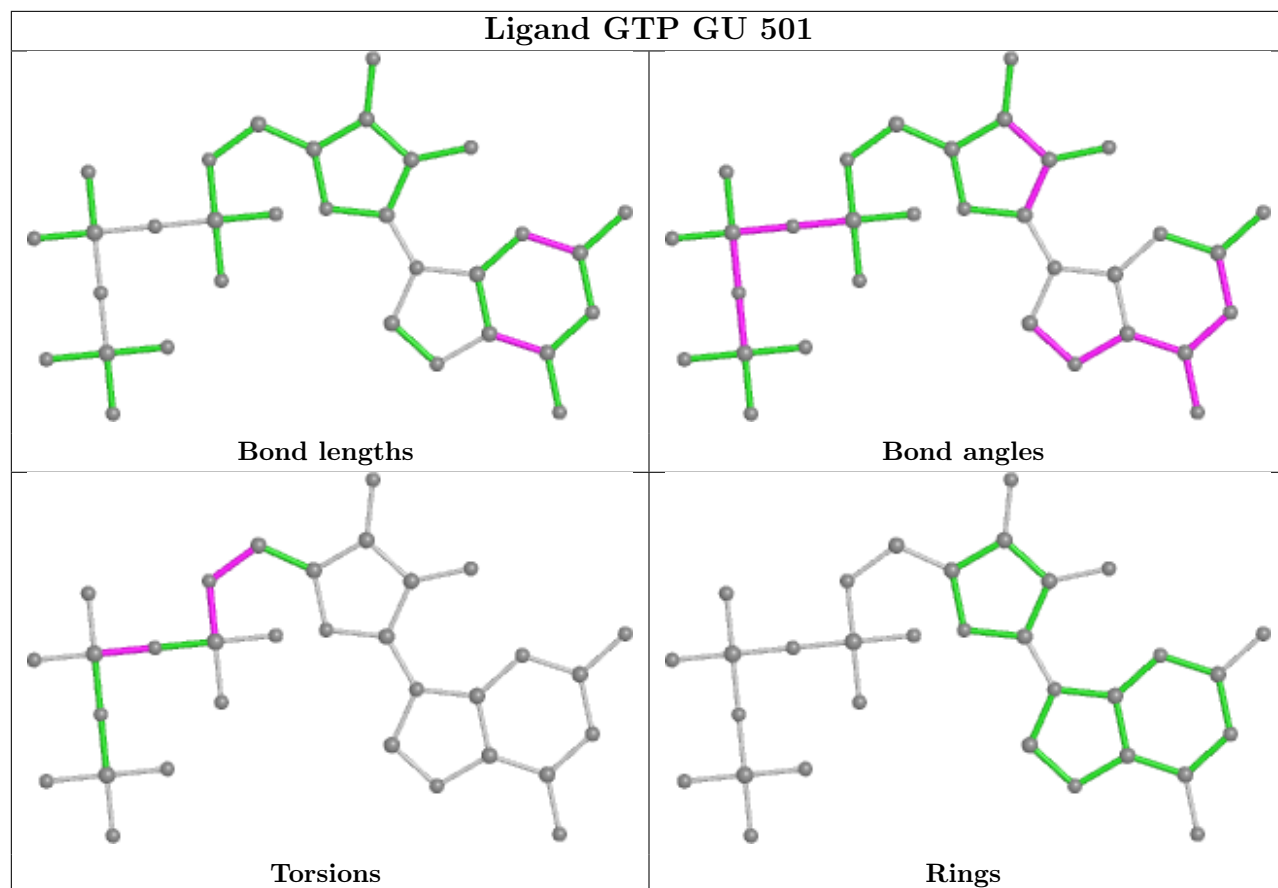
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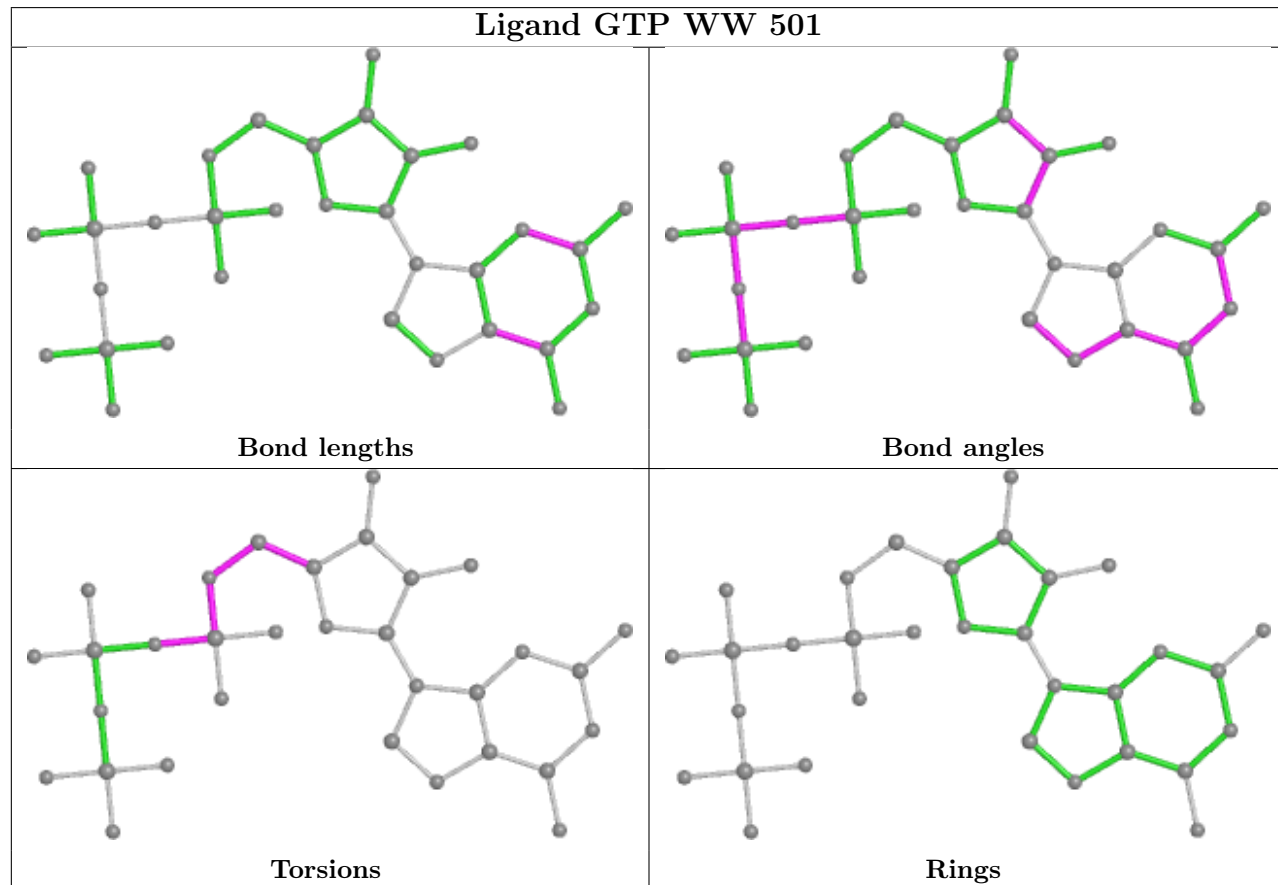
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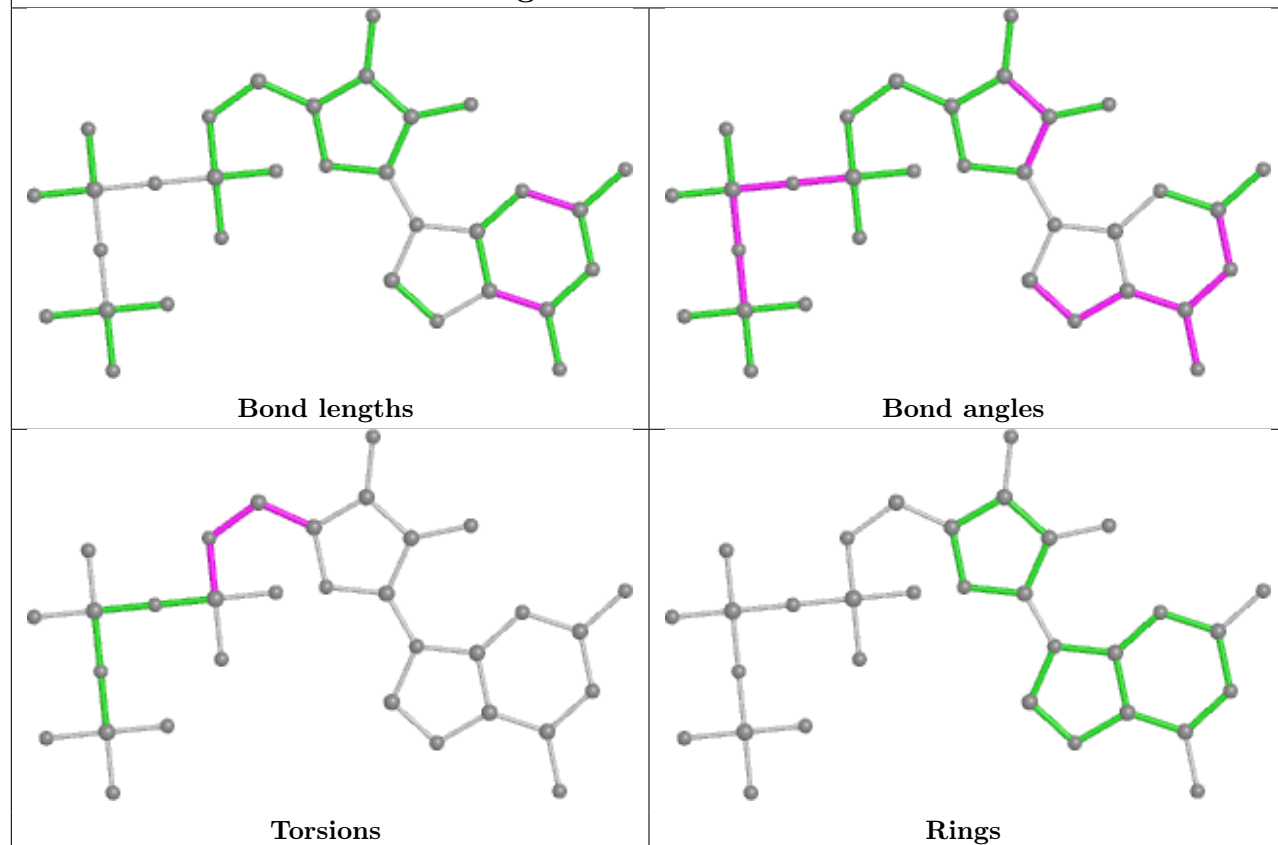
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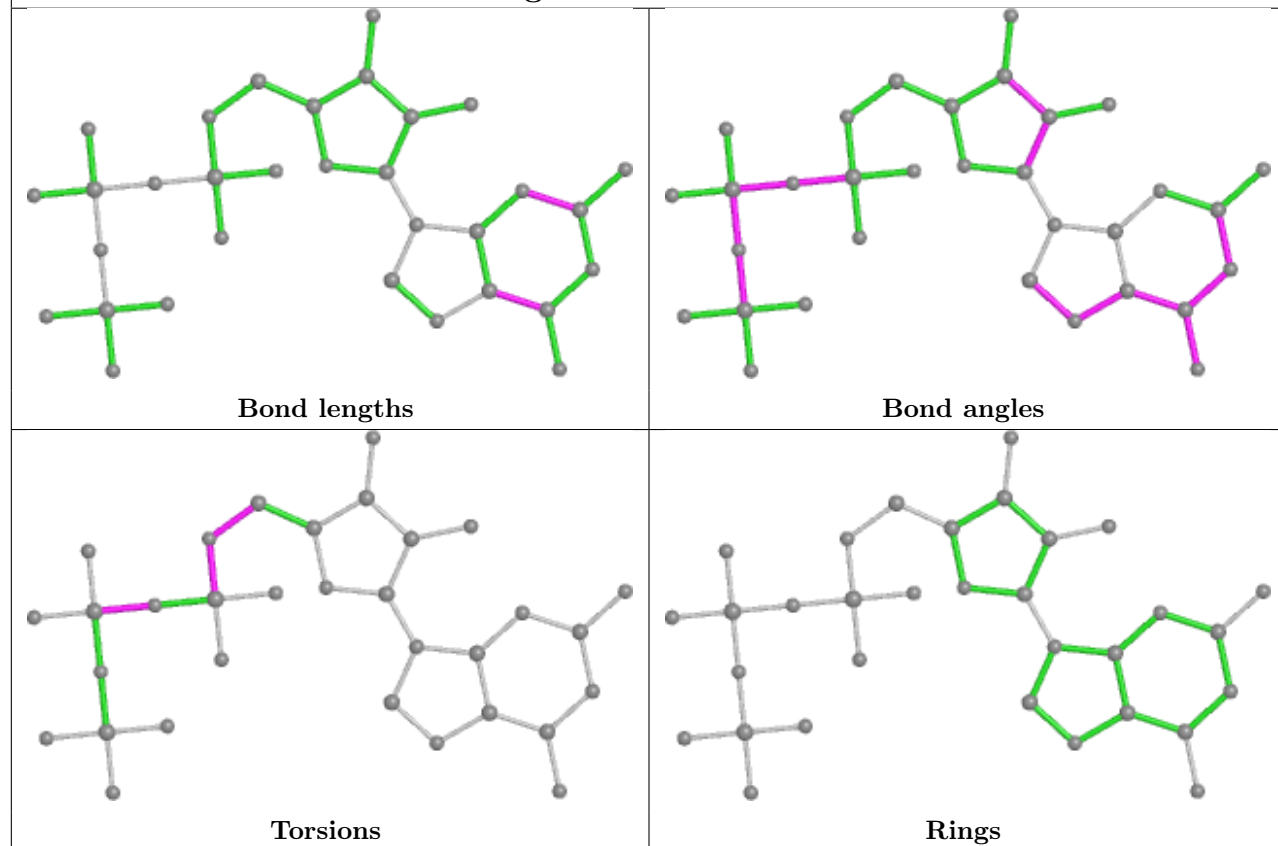
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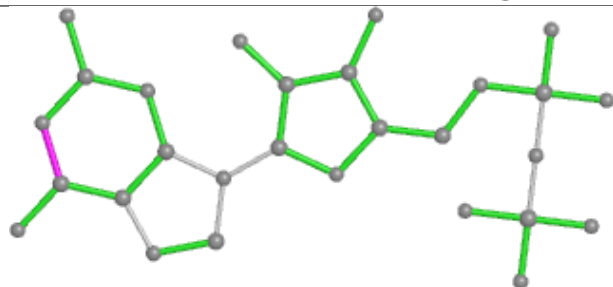
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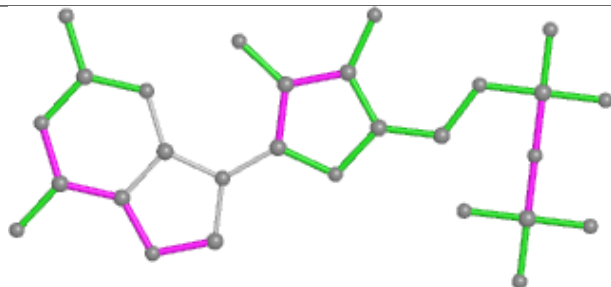
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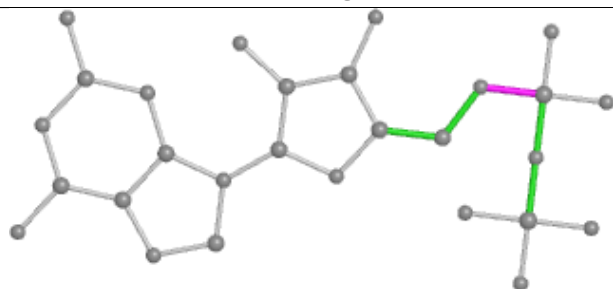
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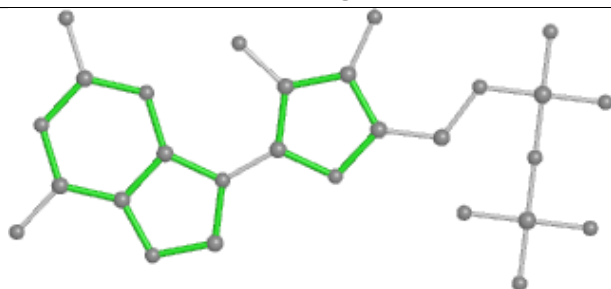
Bond lengths



Bond angles

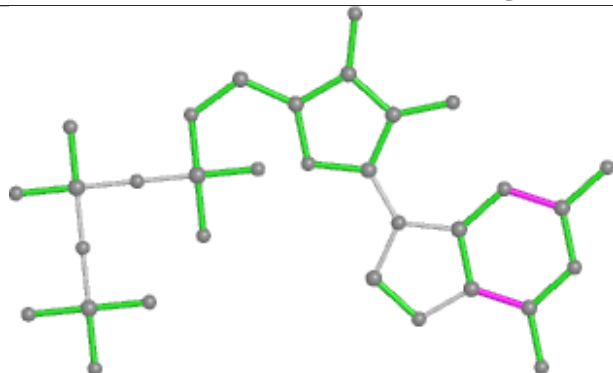


Torsions

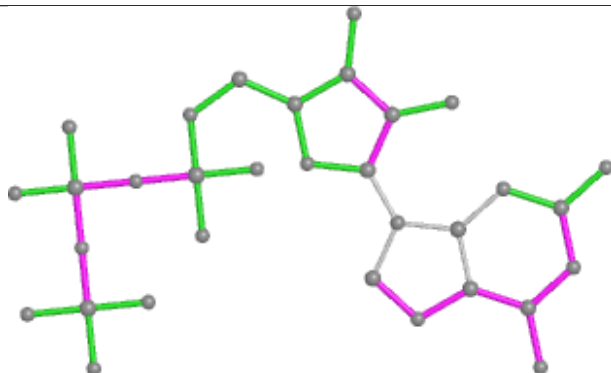


Rings

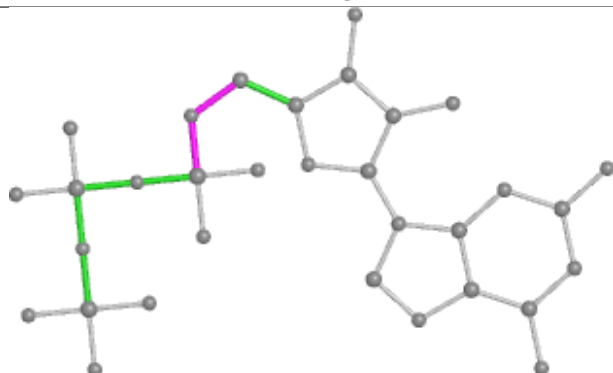
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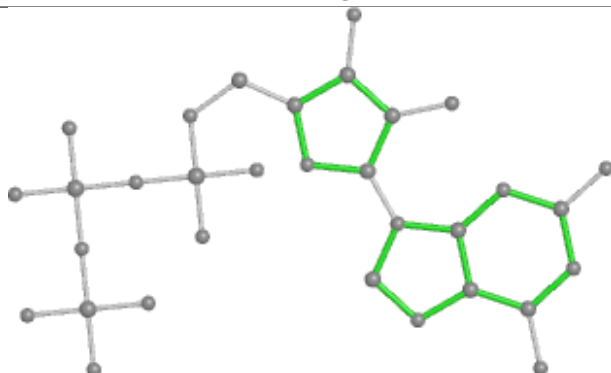
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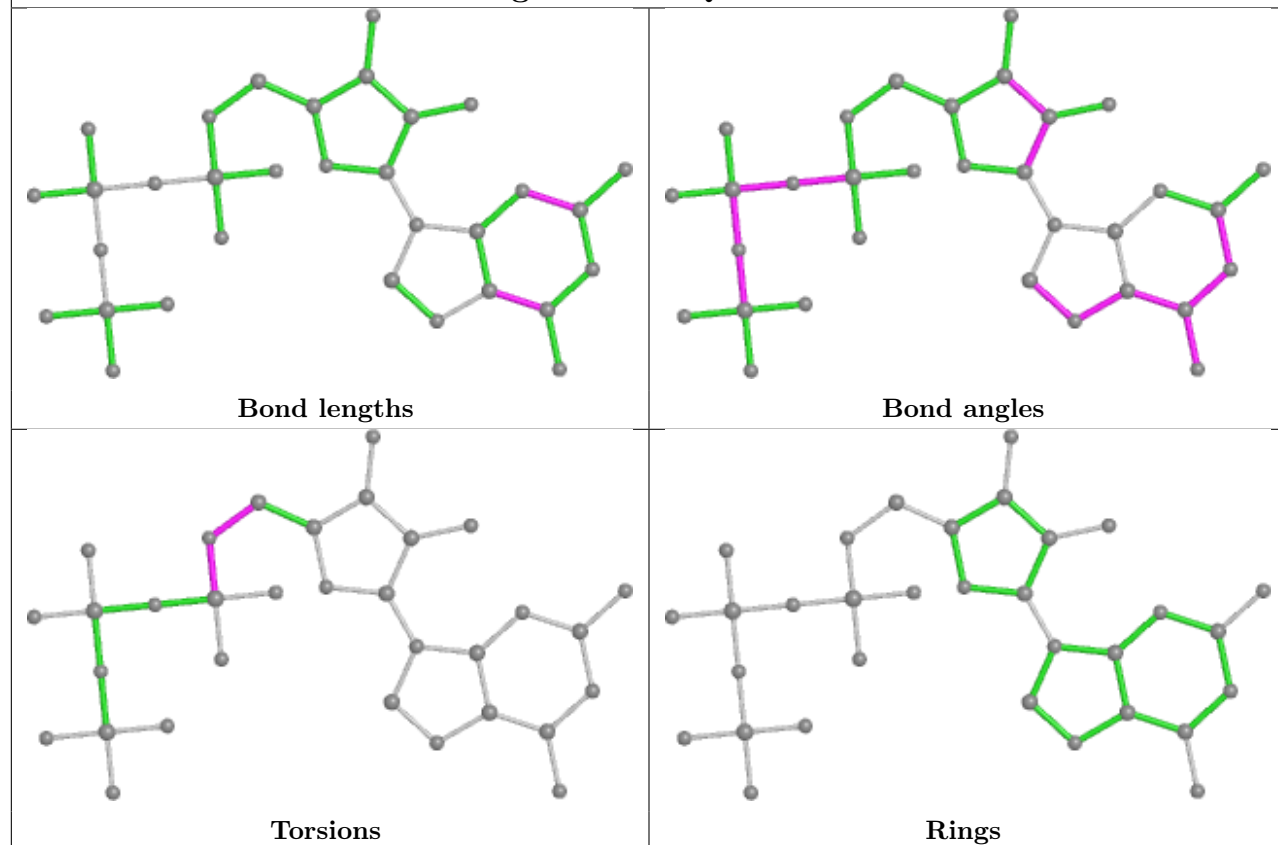


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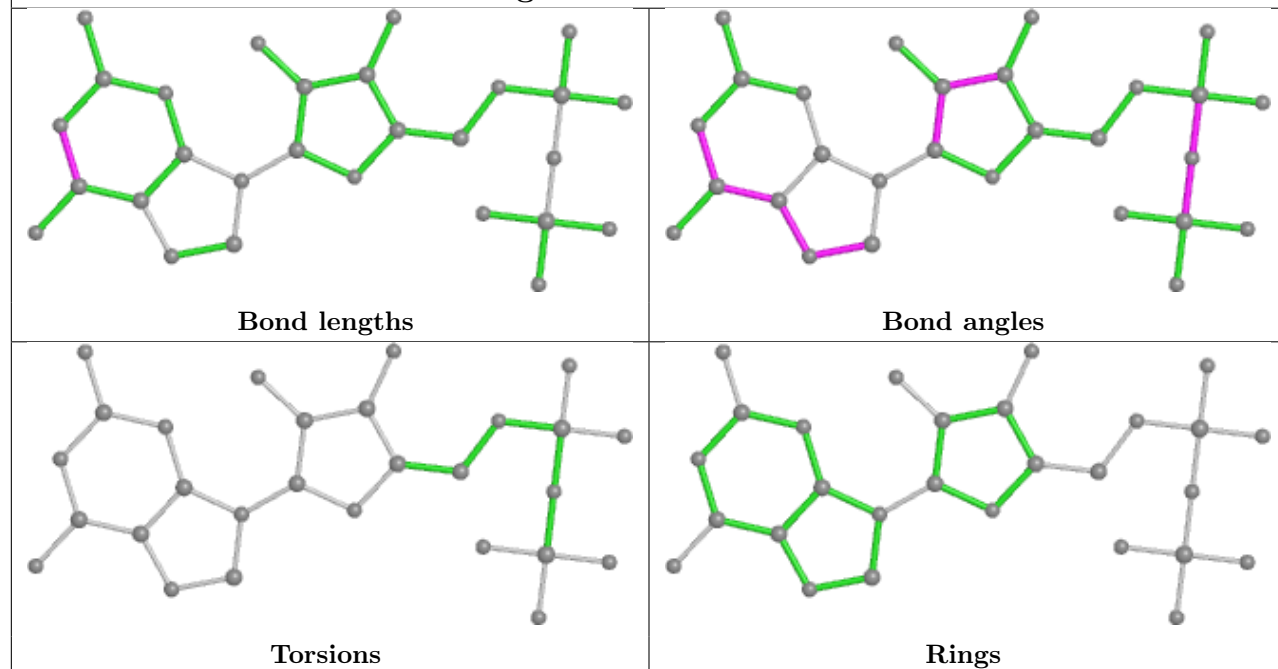


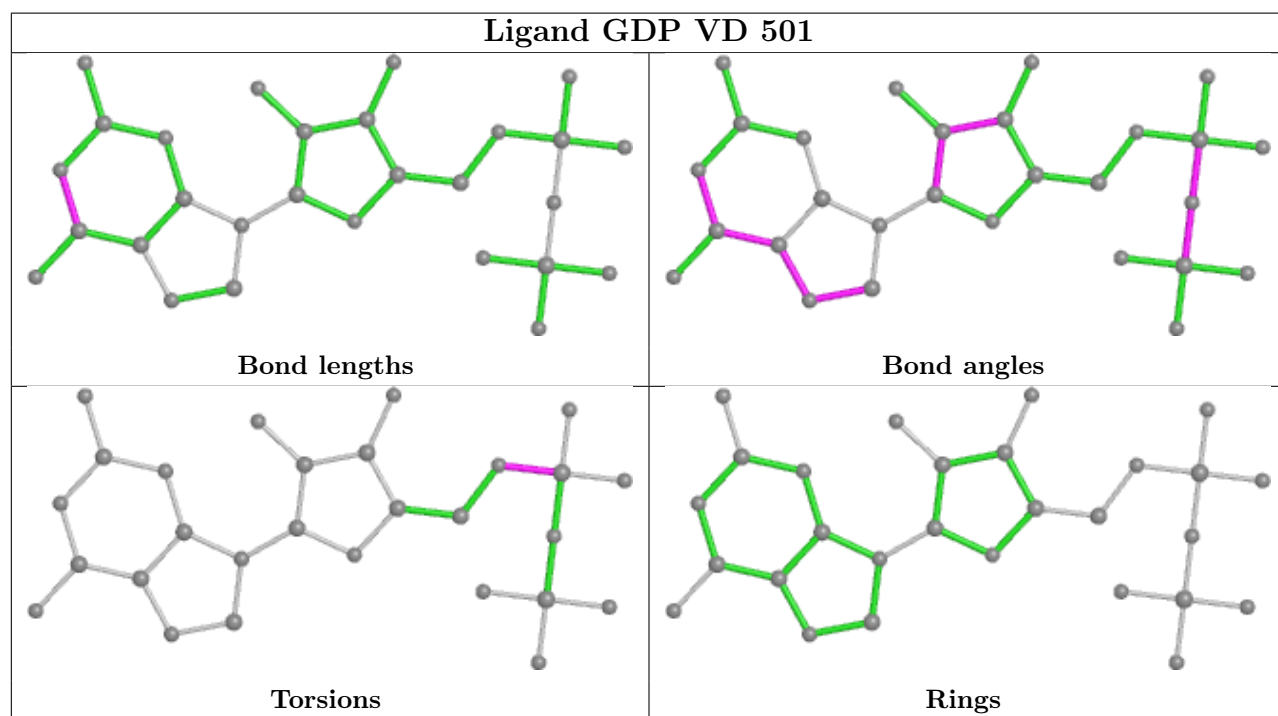
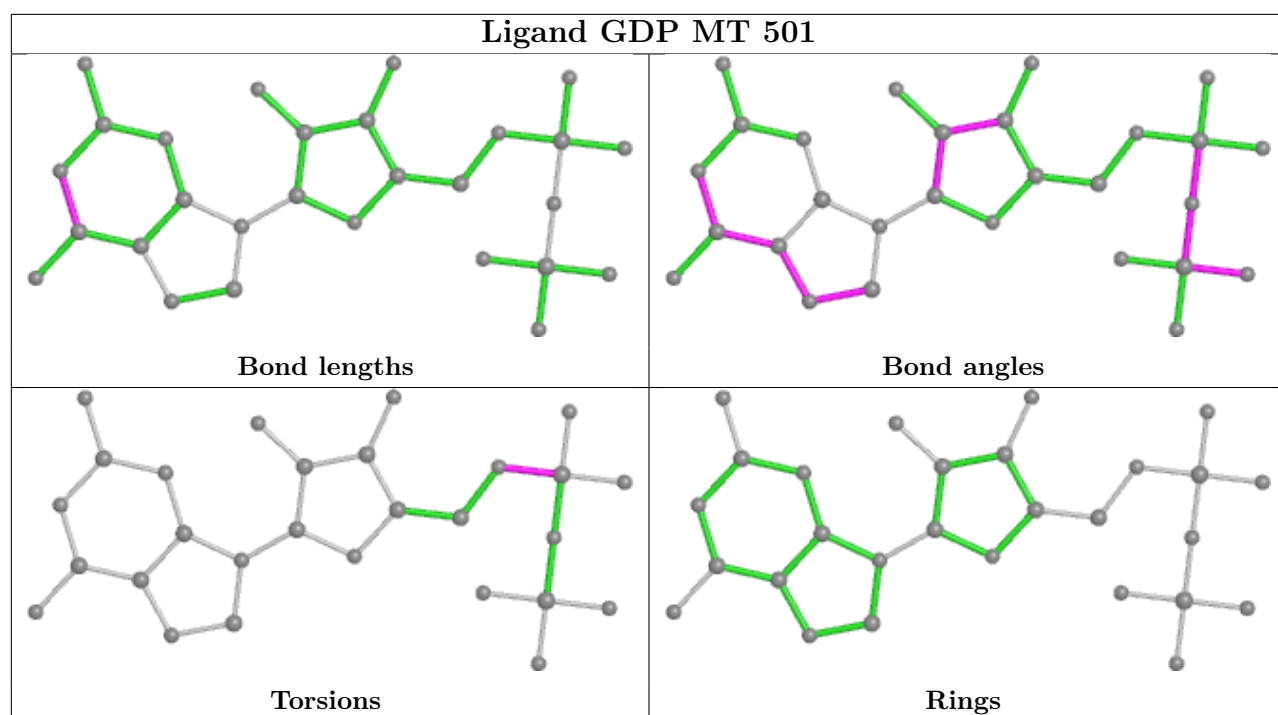
Rings

Ligand GTP QW 501

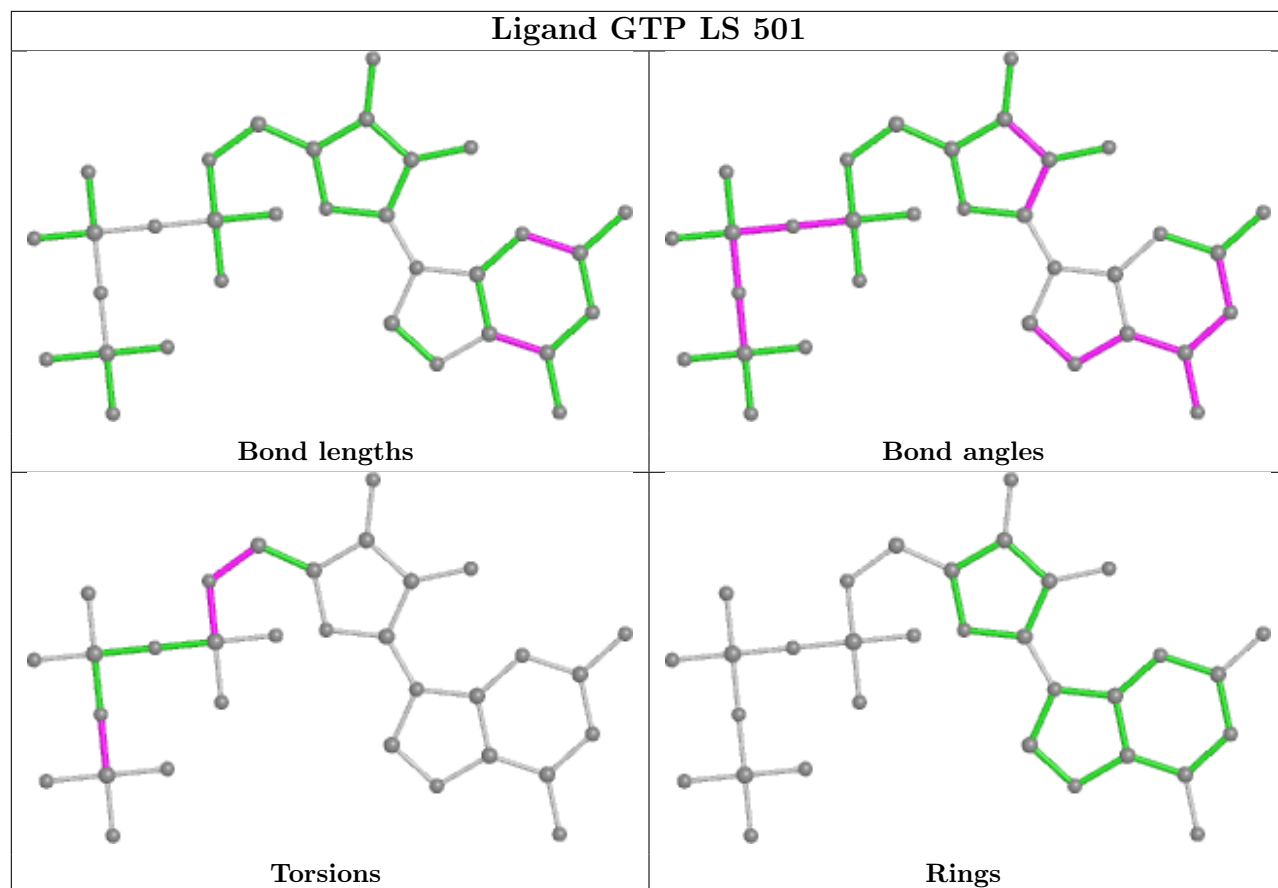


Ligand GDP OP 501

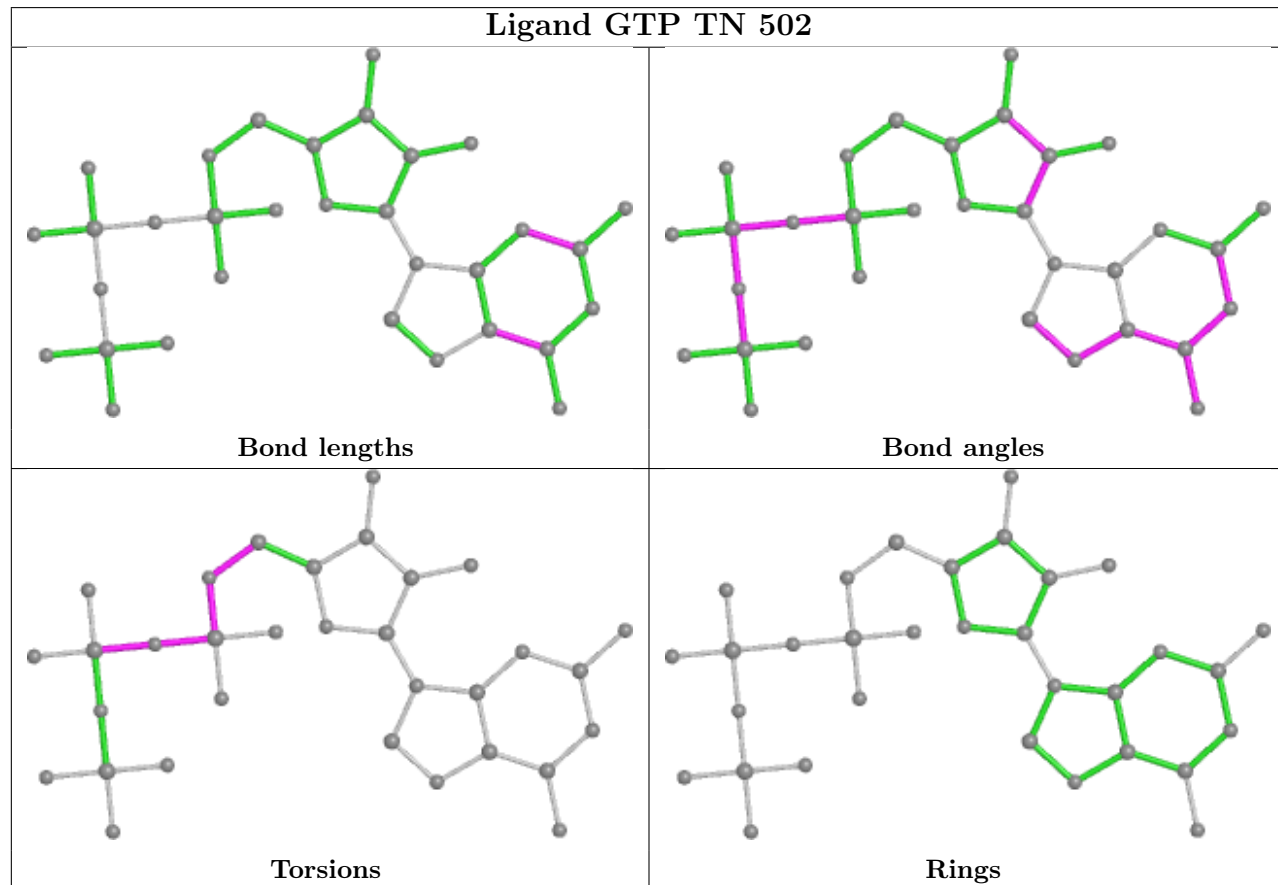




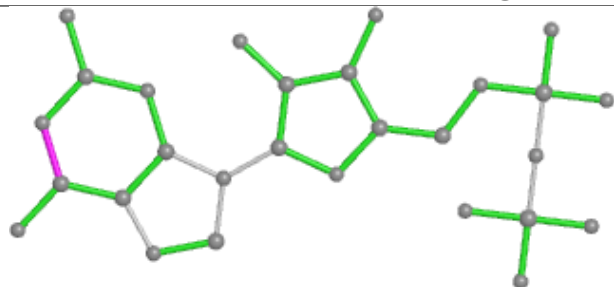
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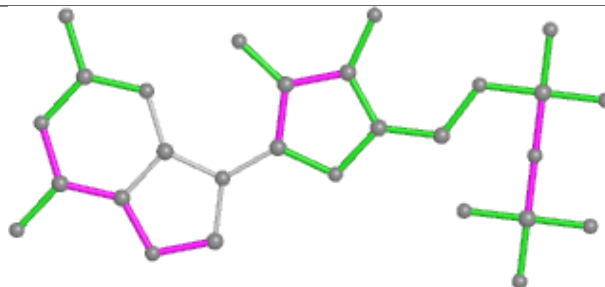
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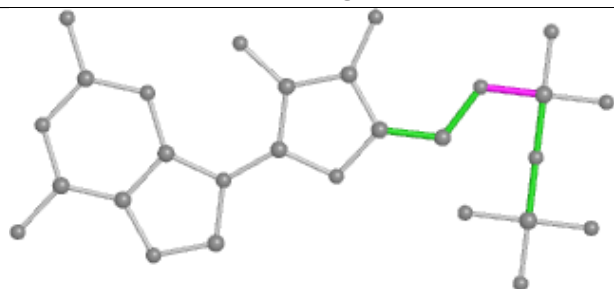
Ligand GDP GH 501



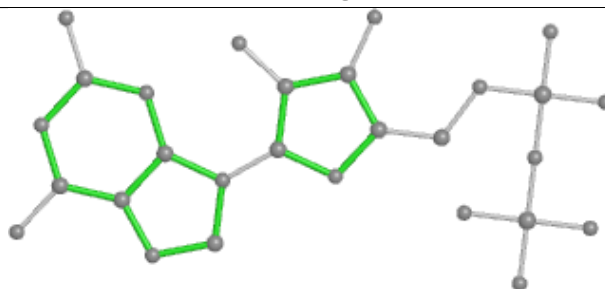
Bond lengths



Bond angles

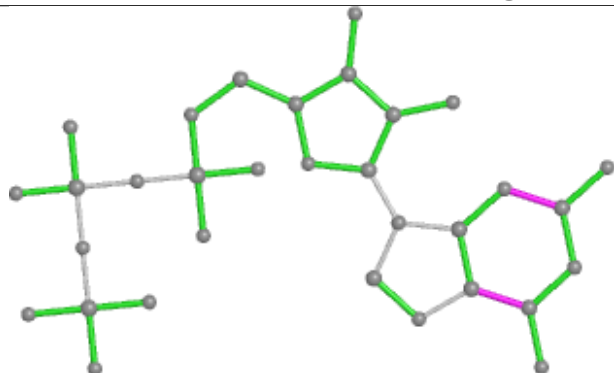


Torsions

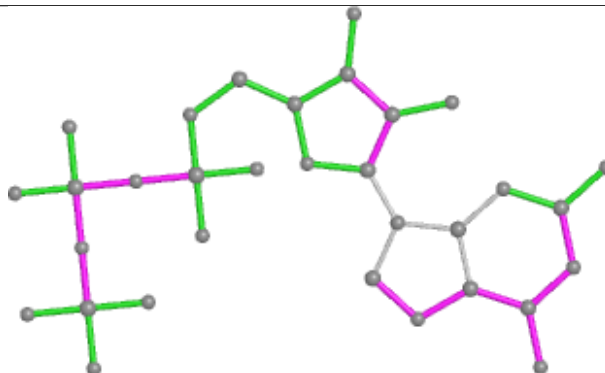


Rings

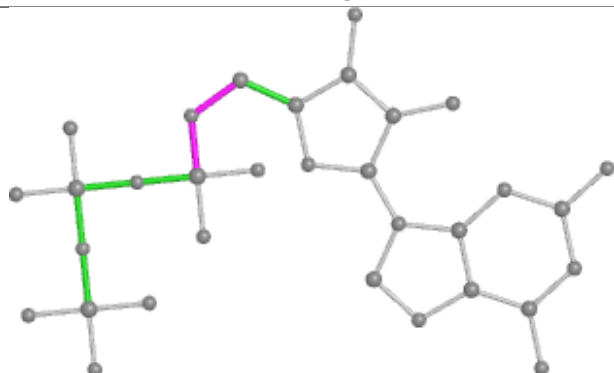
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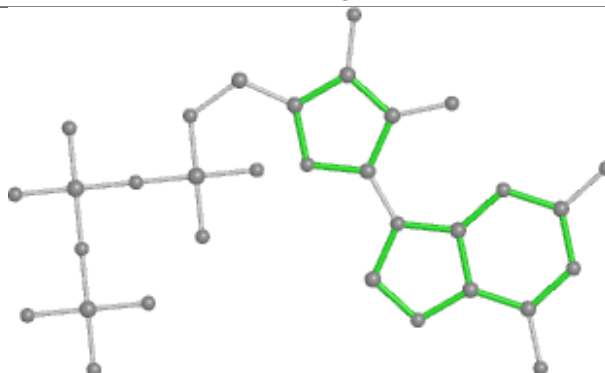
Bond lengths



Bond angles

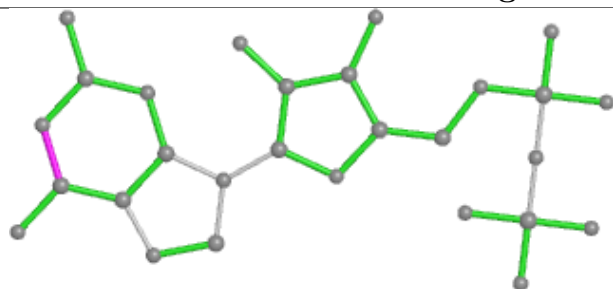


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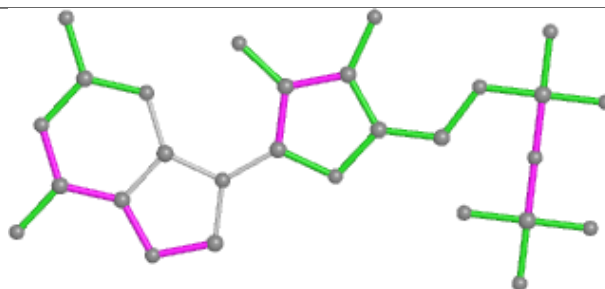


Rings

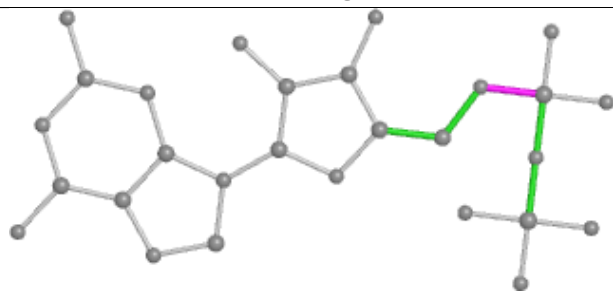
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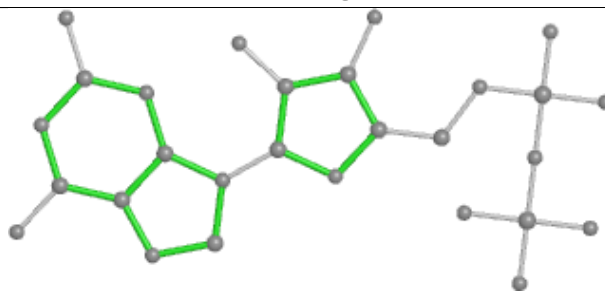
Bond lengths



Bond angles

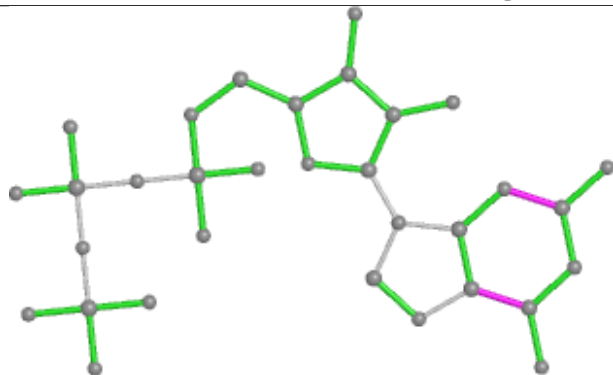


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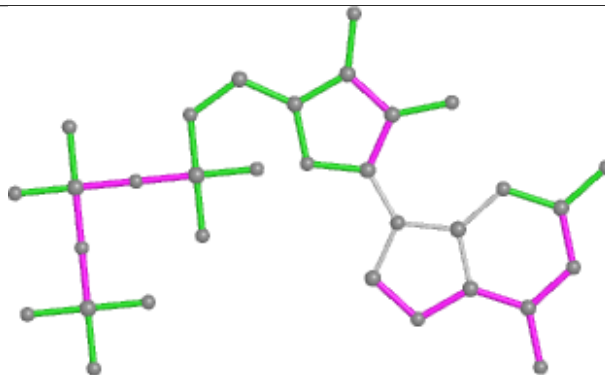


Rings

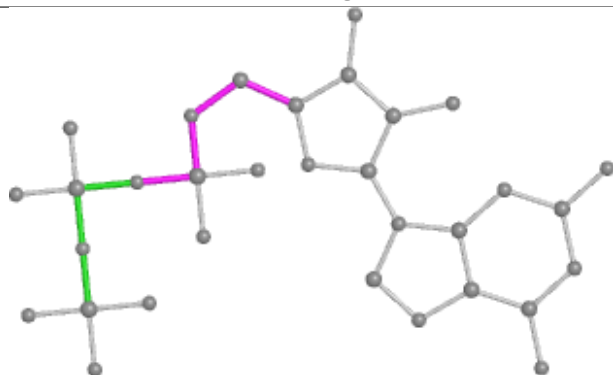
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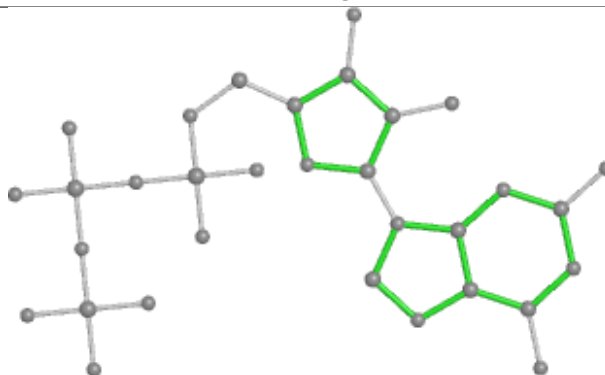
Bond lengths



Bond angles

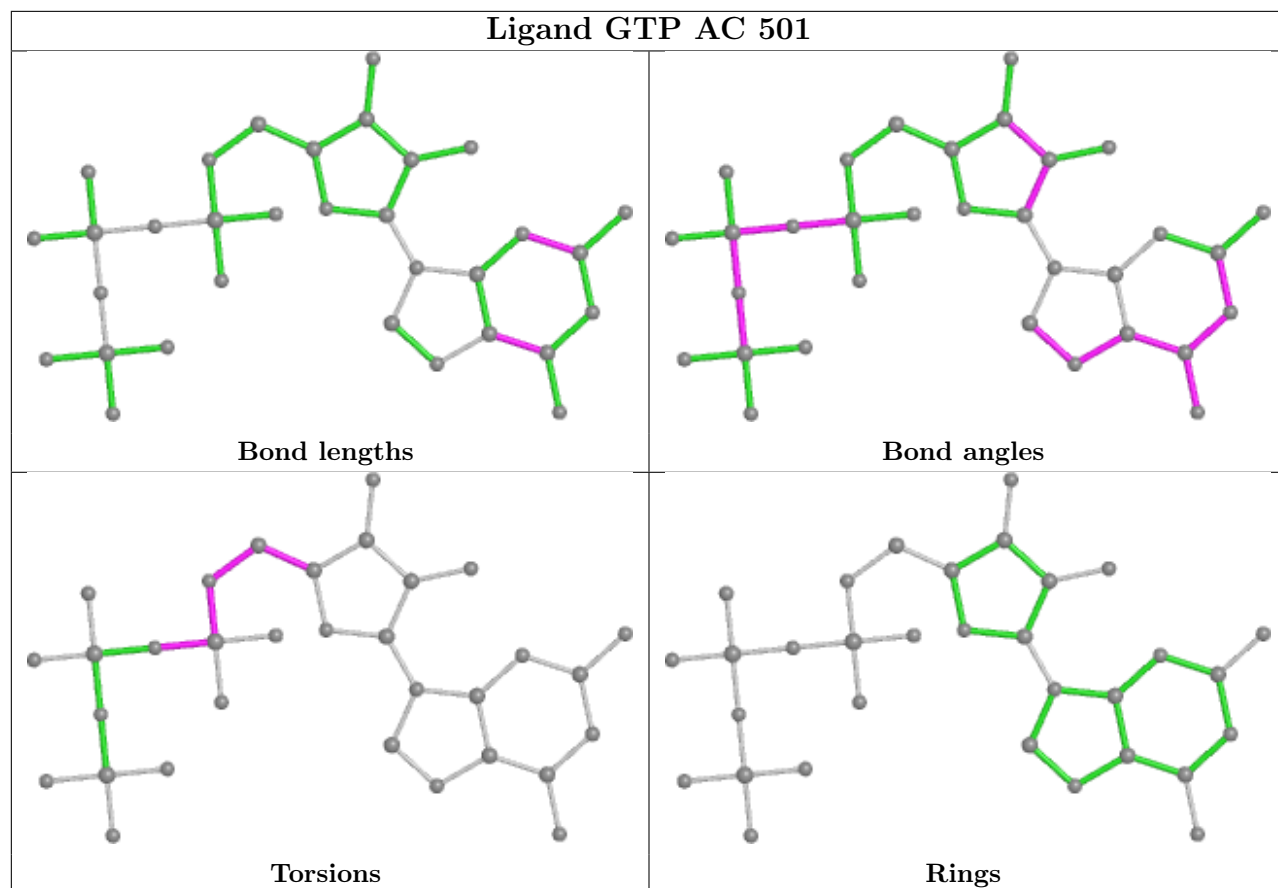


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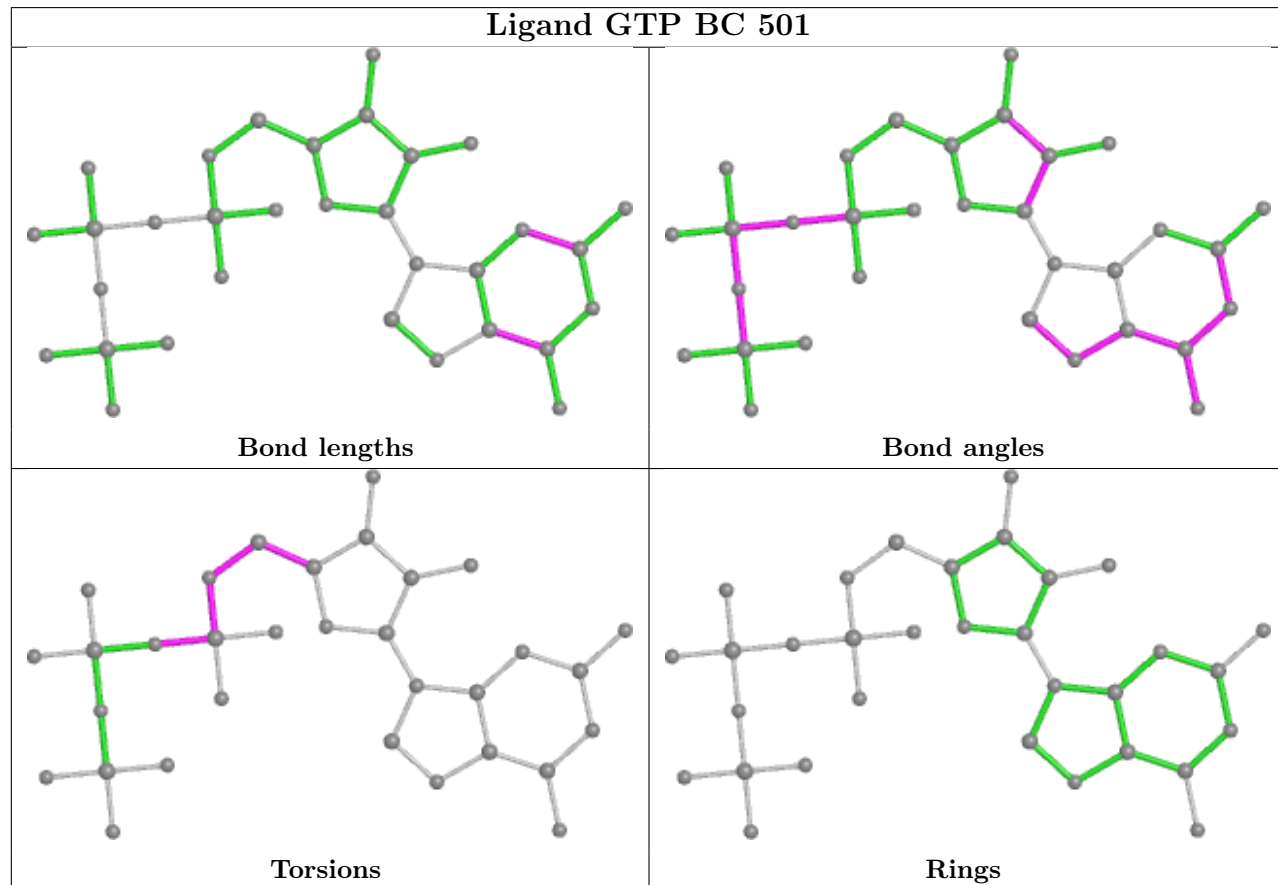


Rings

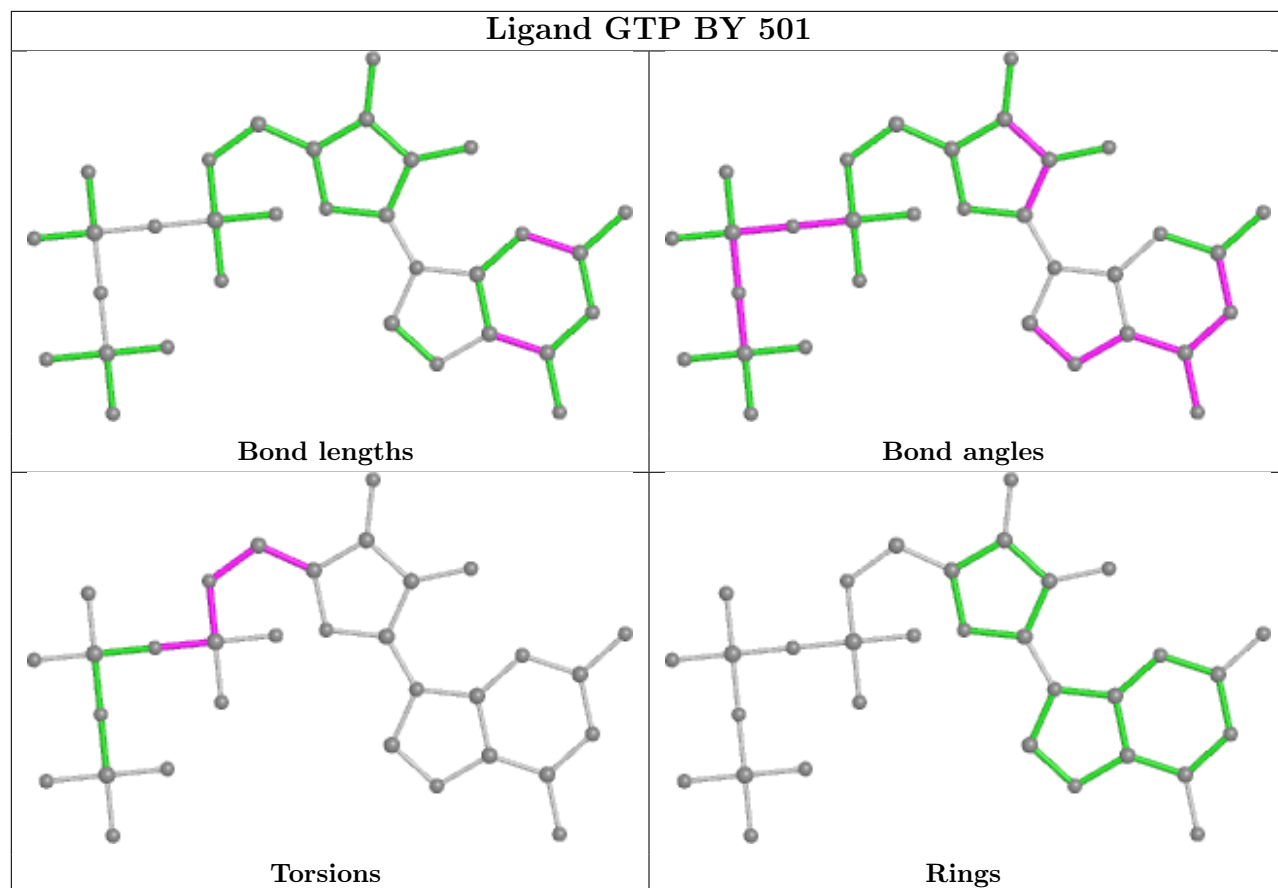
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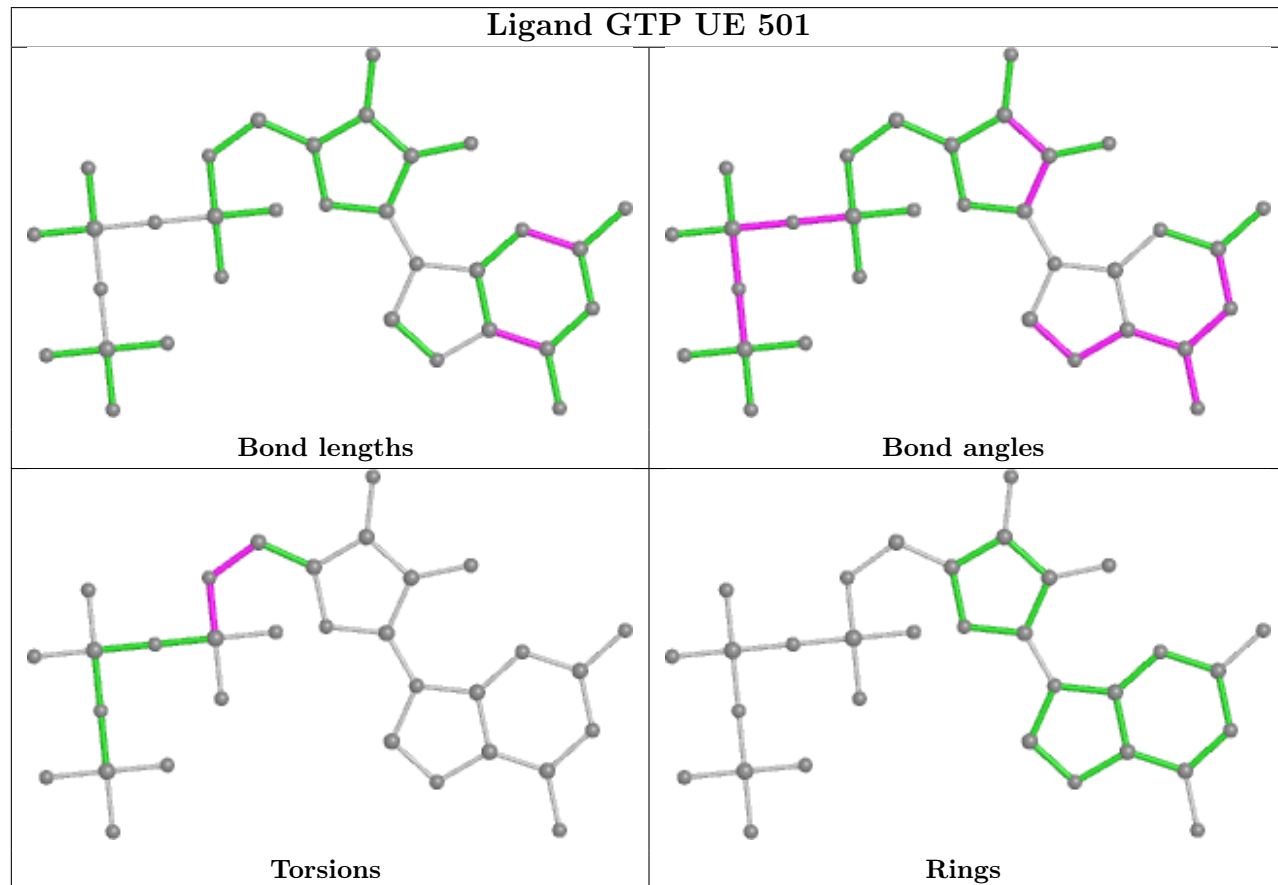
Ligand GTP BC 501



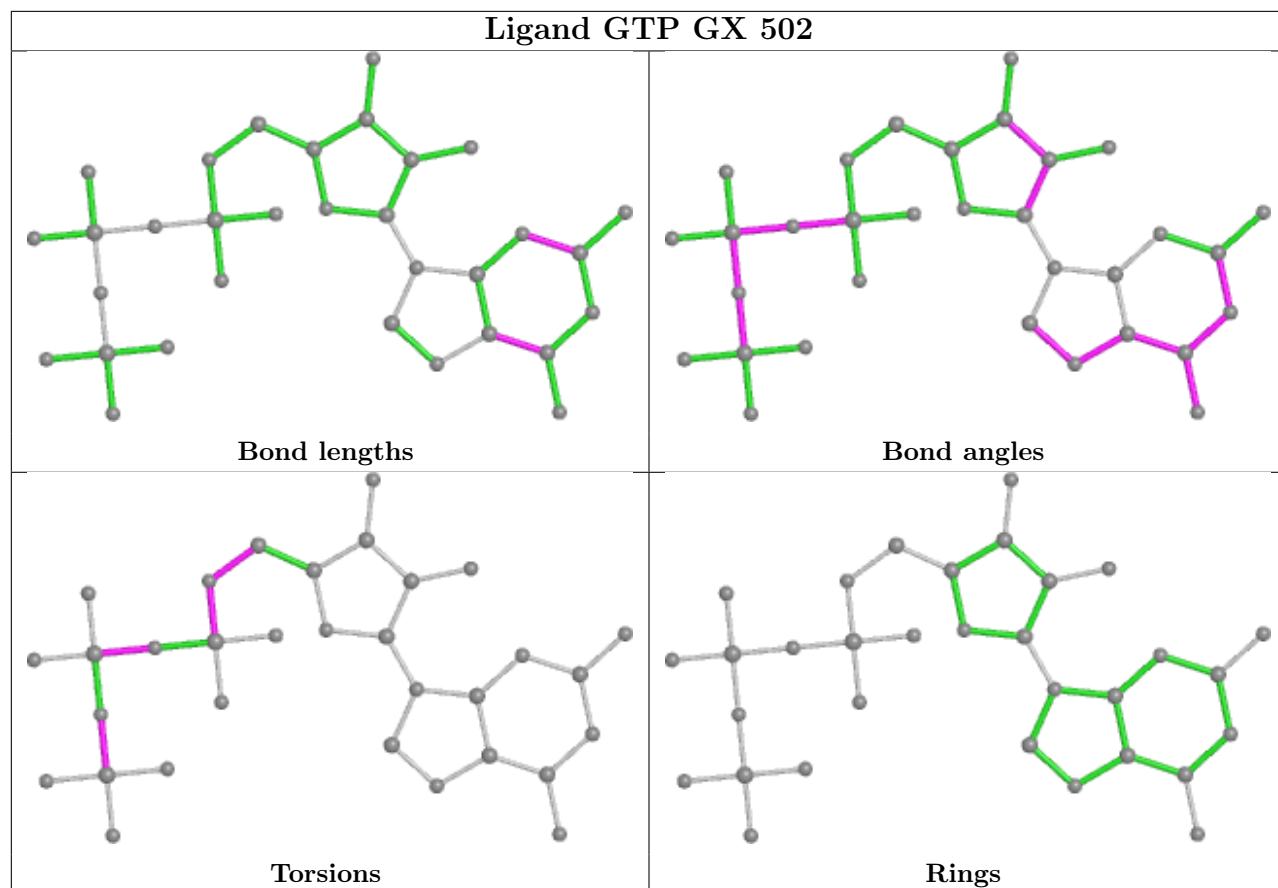
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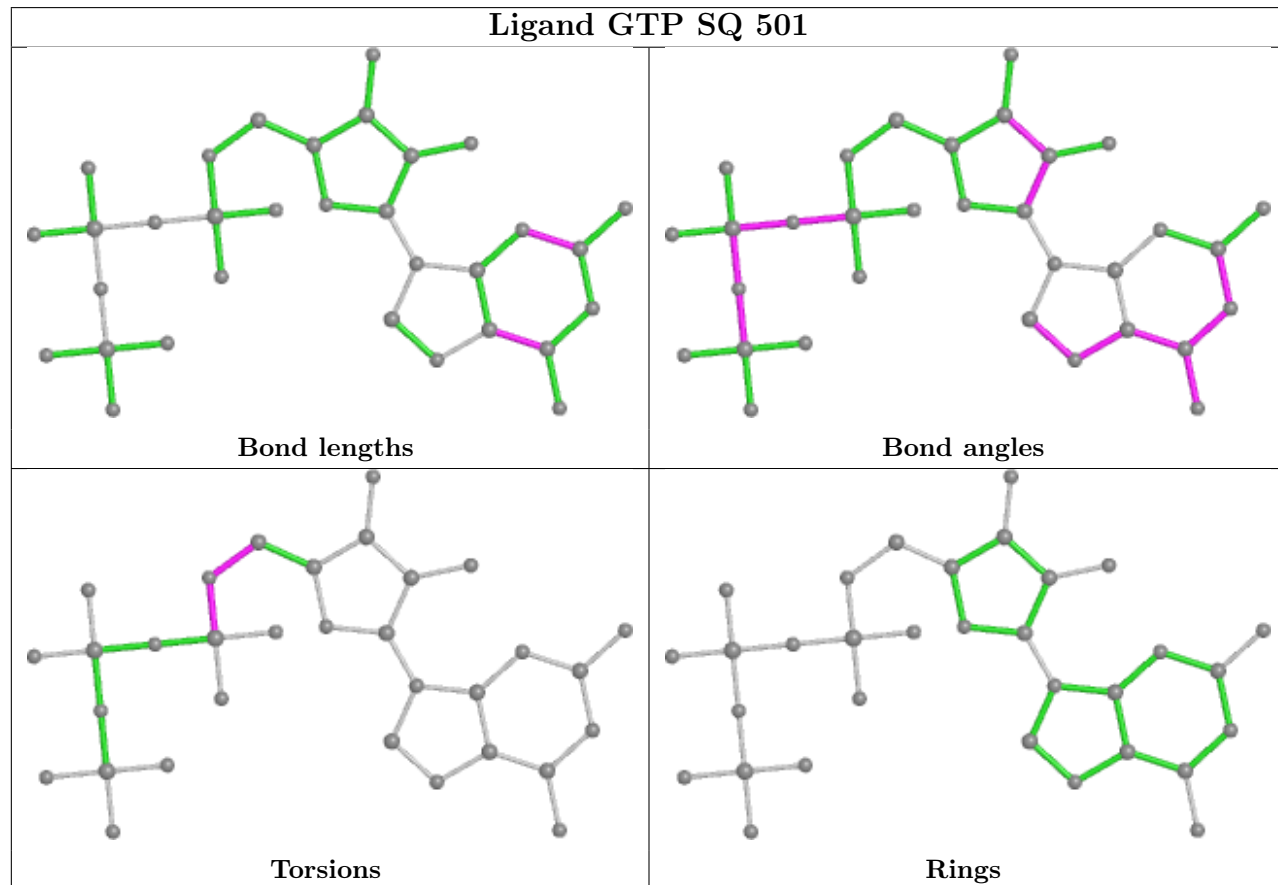
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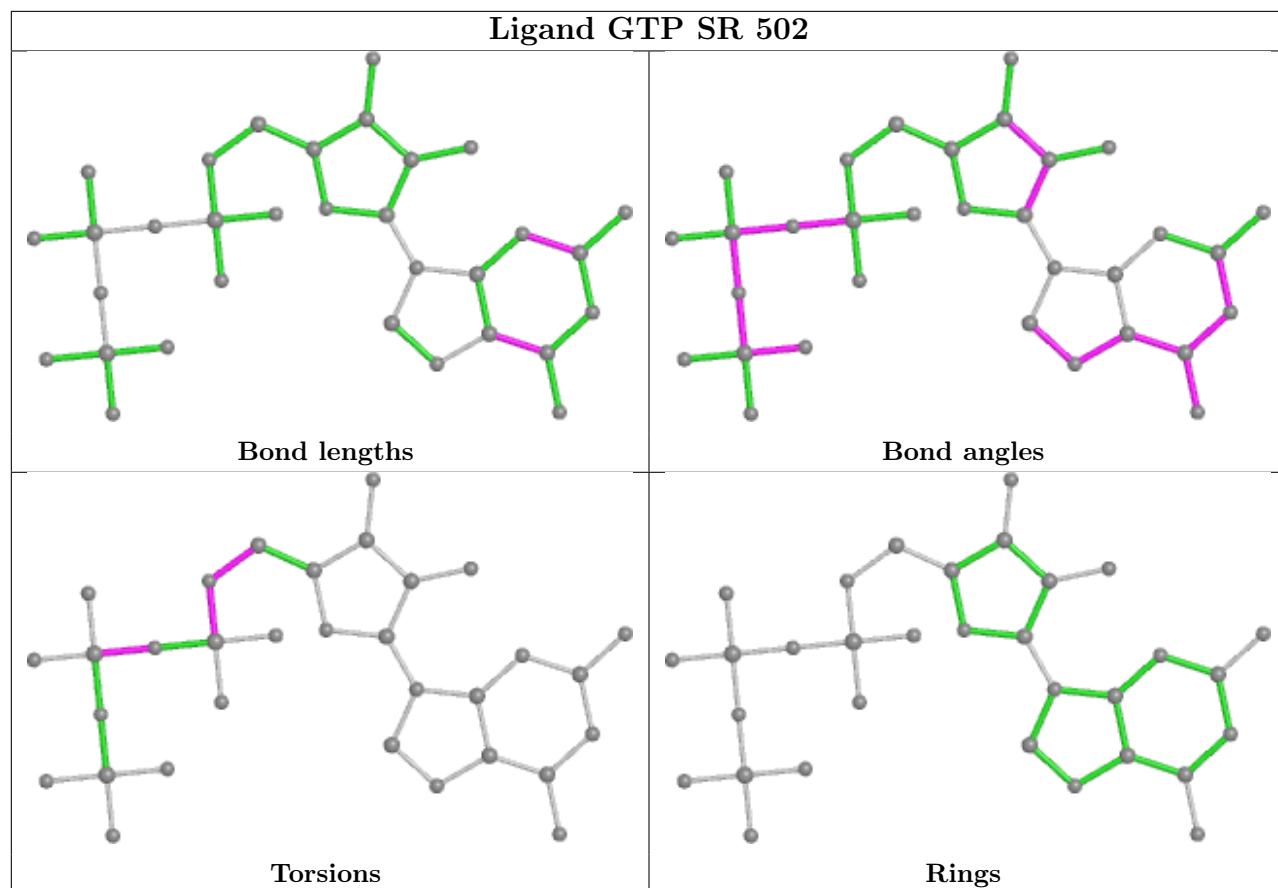
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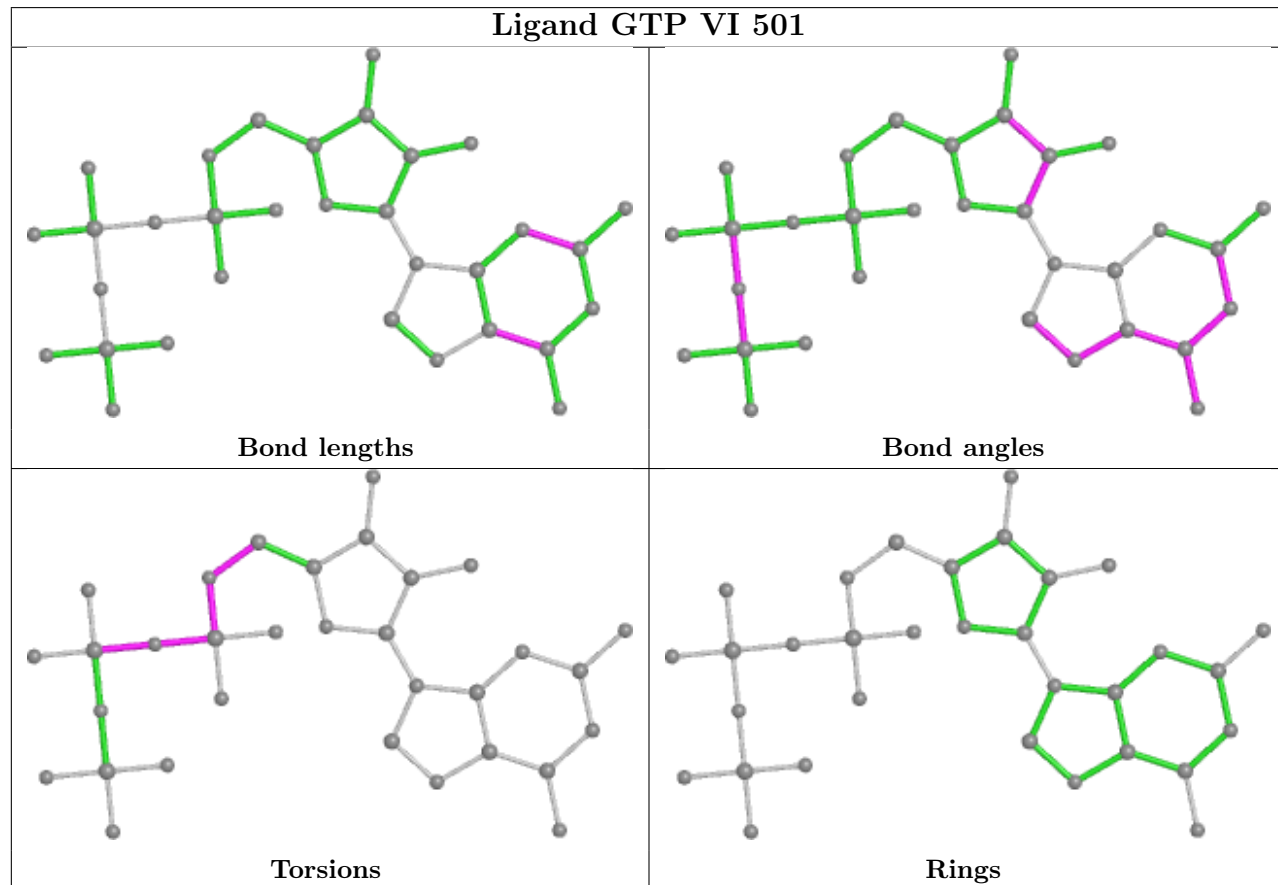
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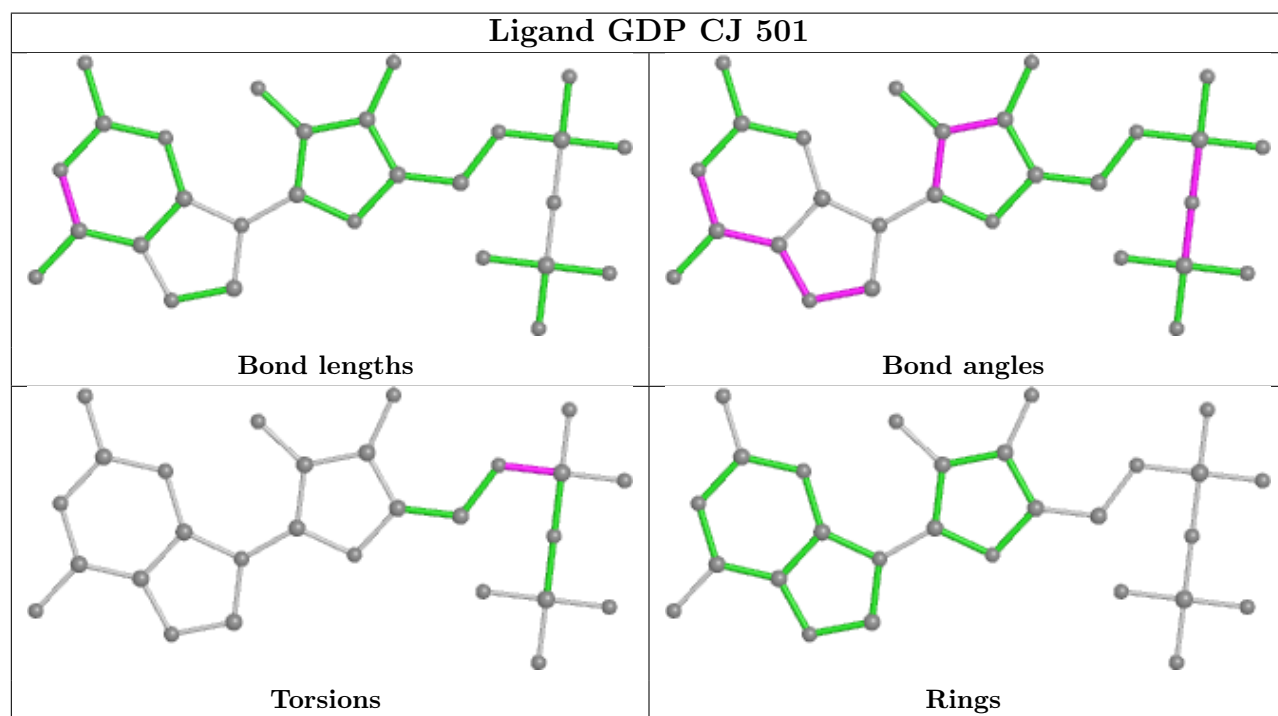
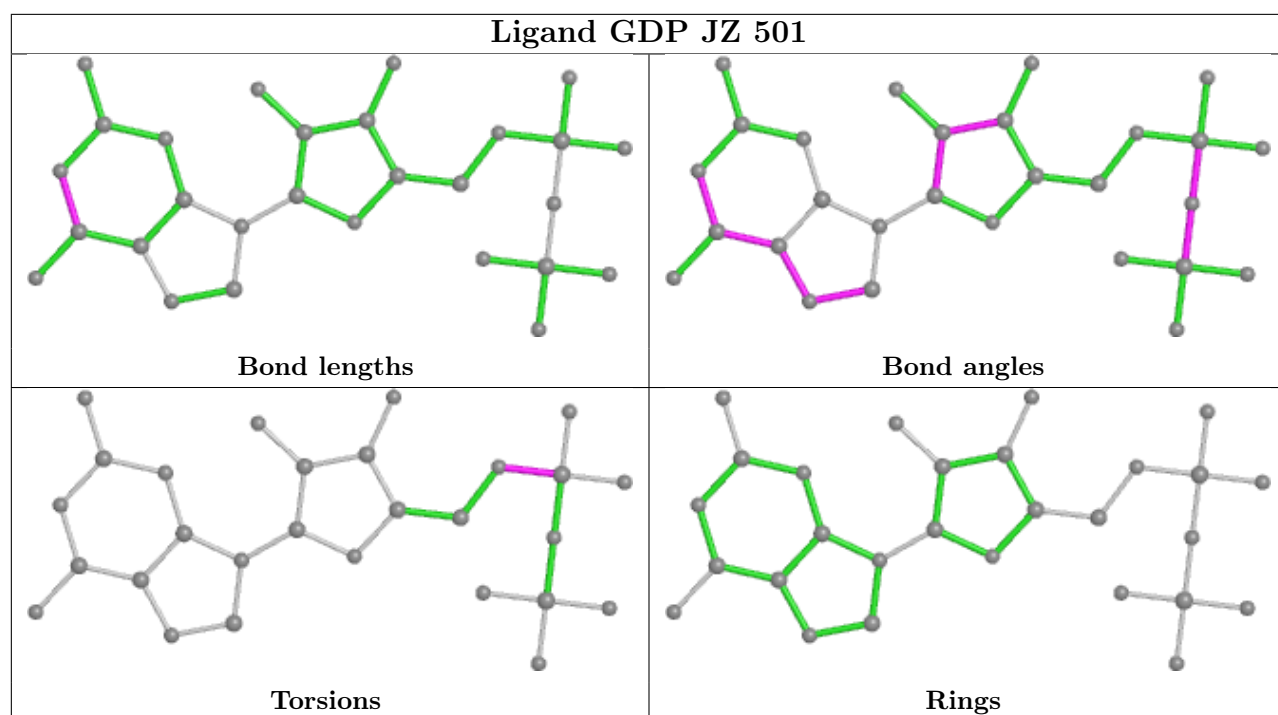


Ligand GTP SR 502

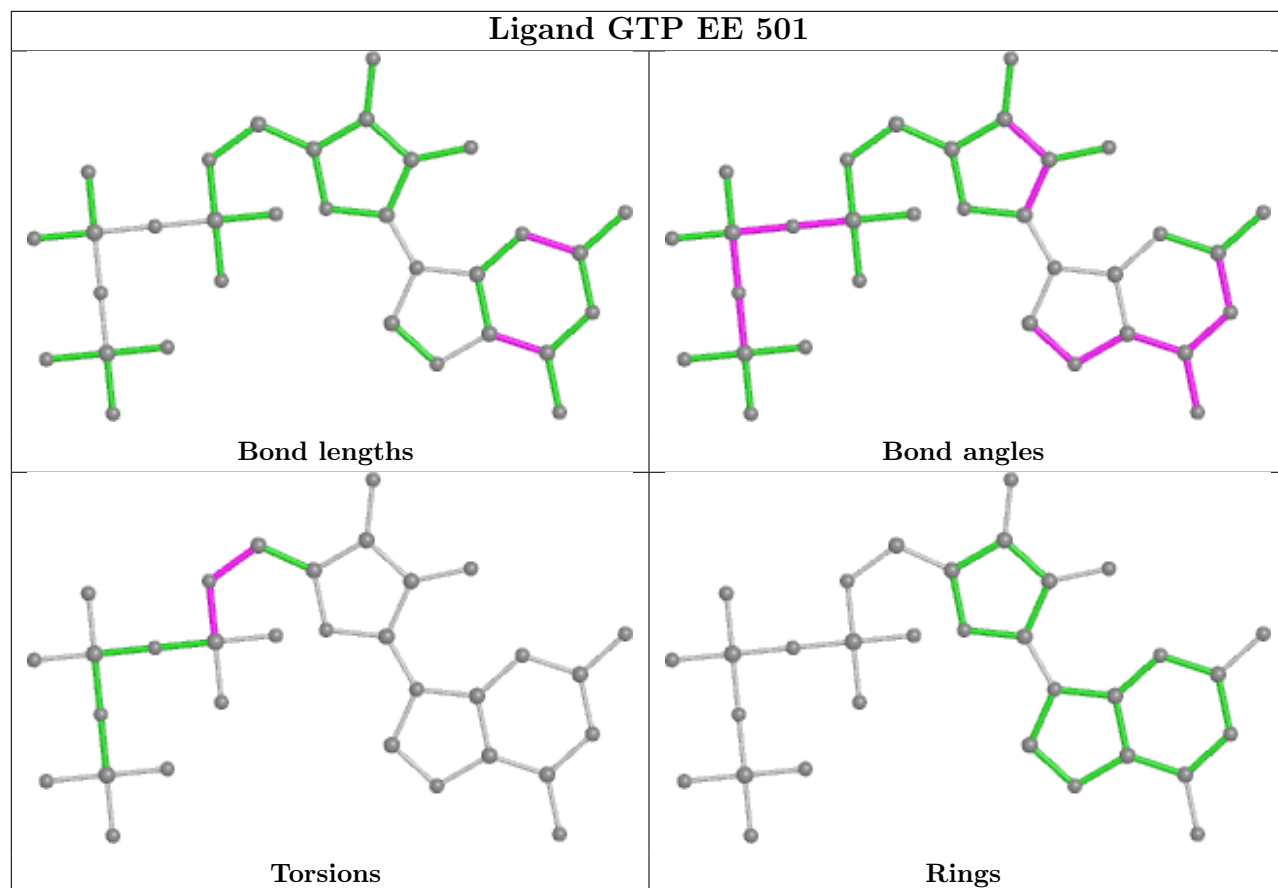


Ligand GTP VI 501

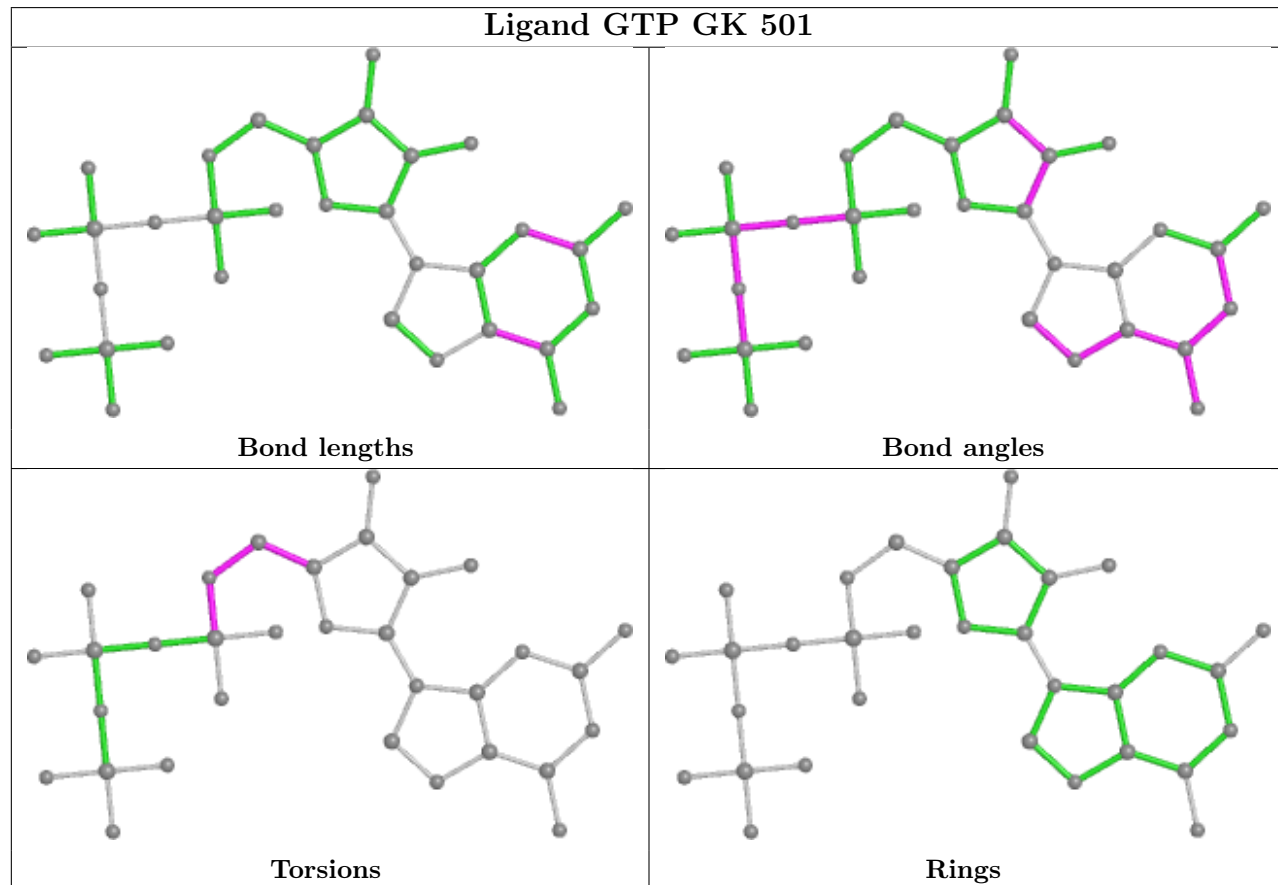


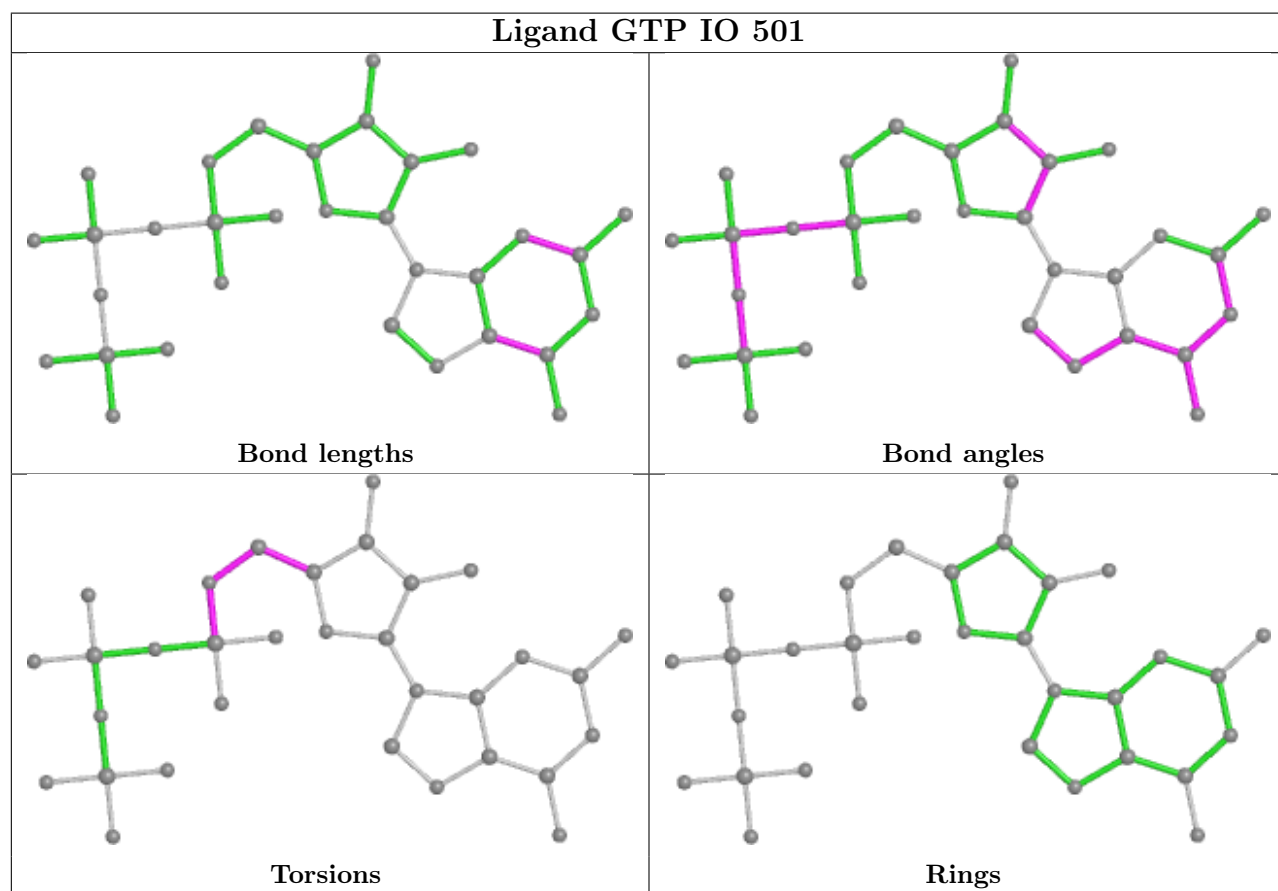
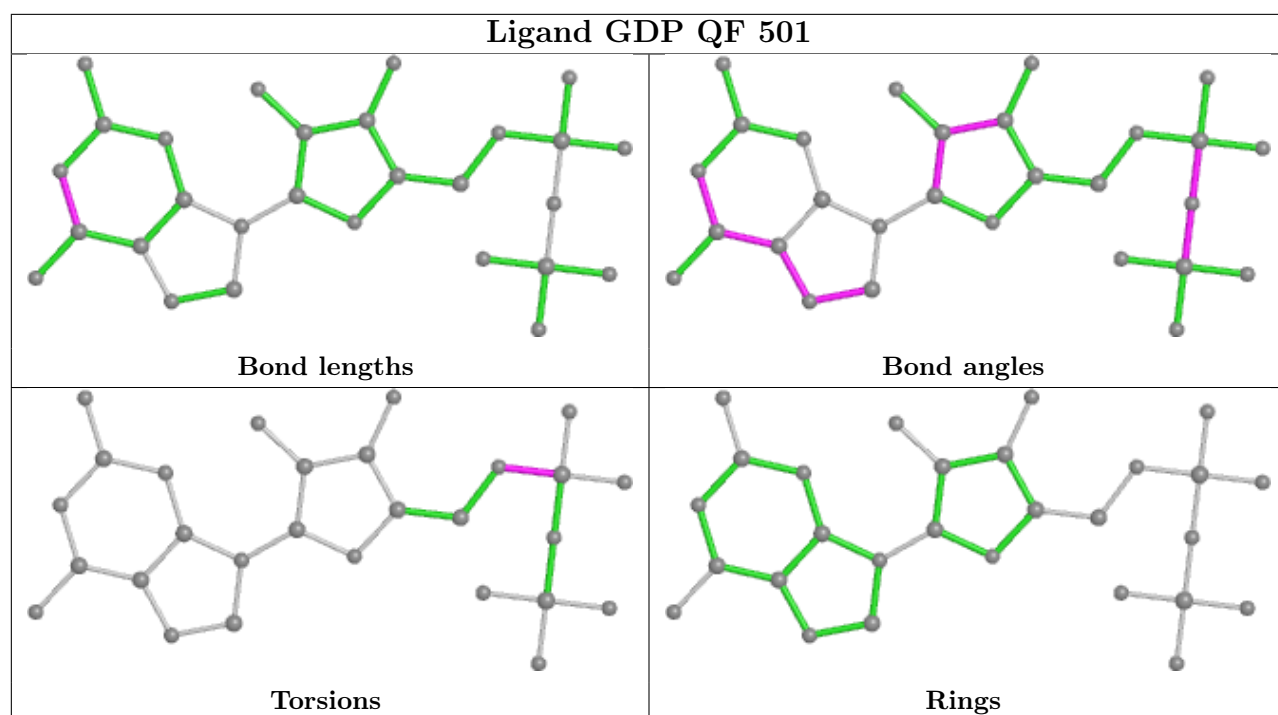


Ligand GTP EE 501

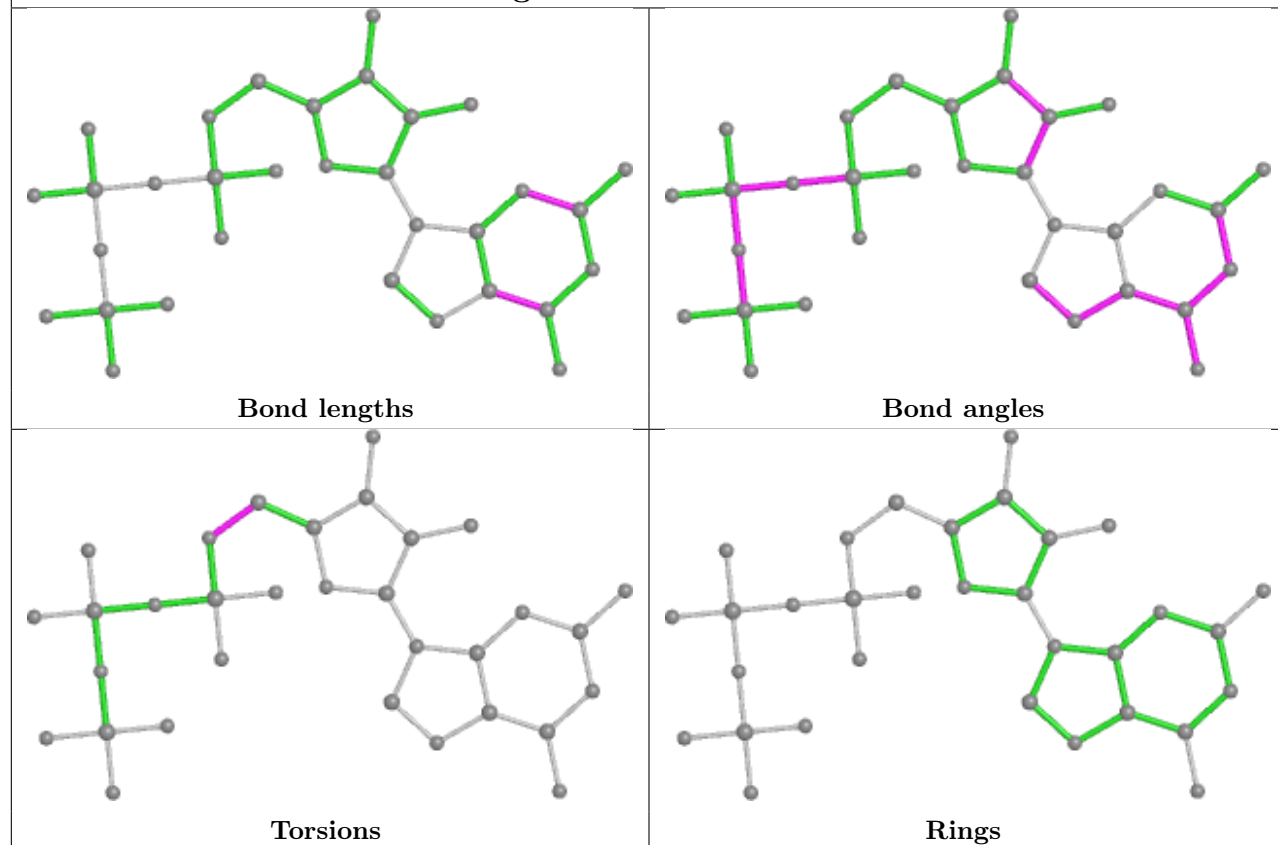


Ligand GTP GK 501

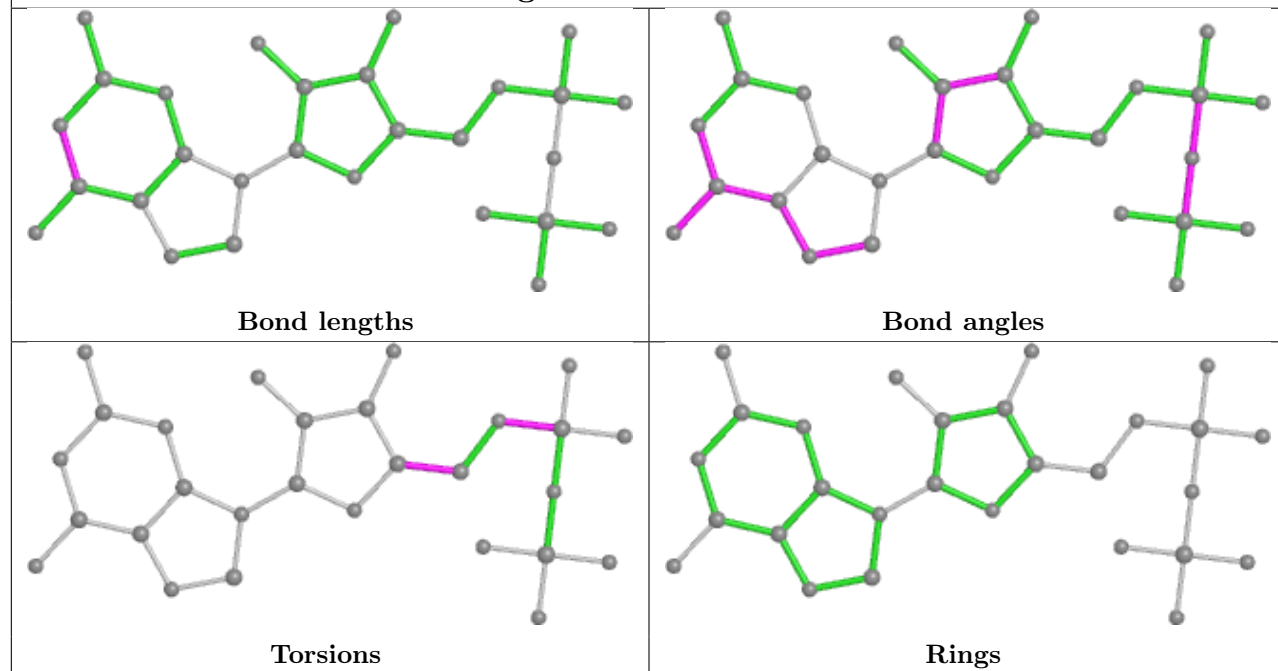




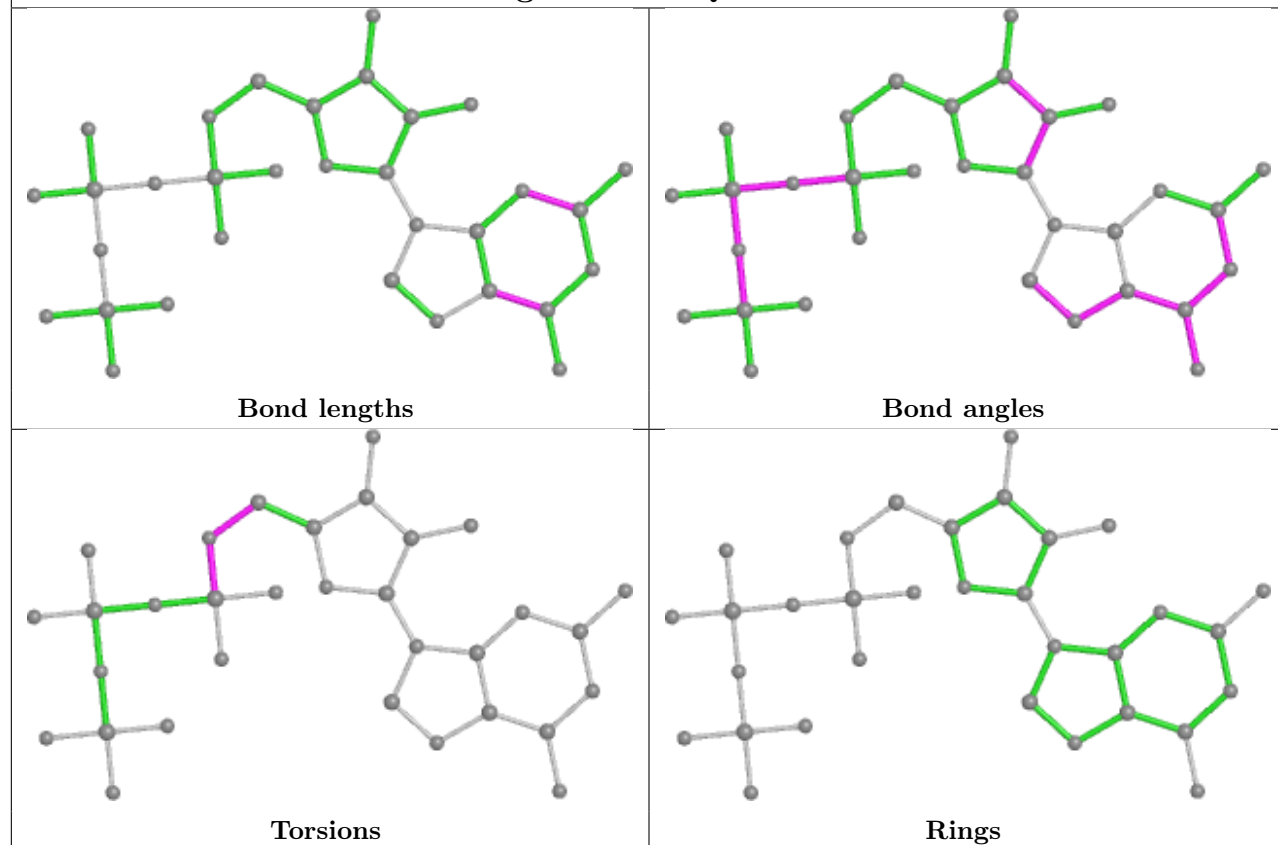
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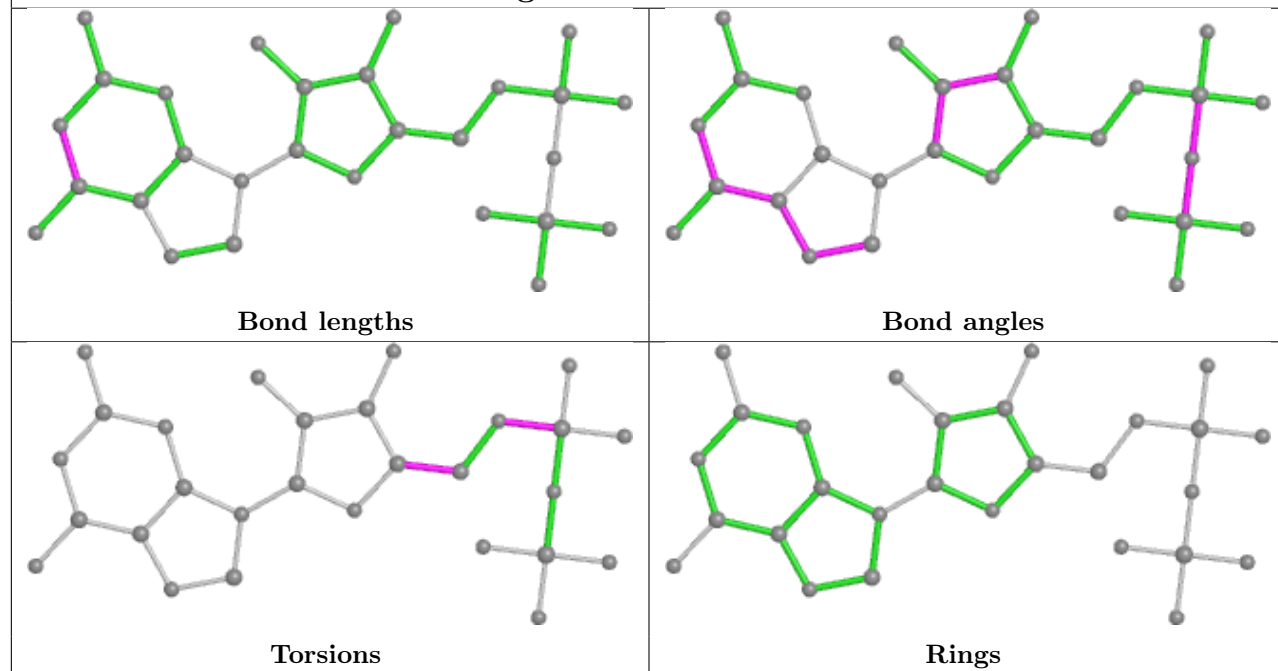
Ligand GDP FV 501



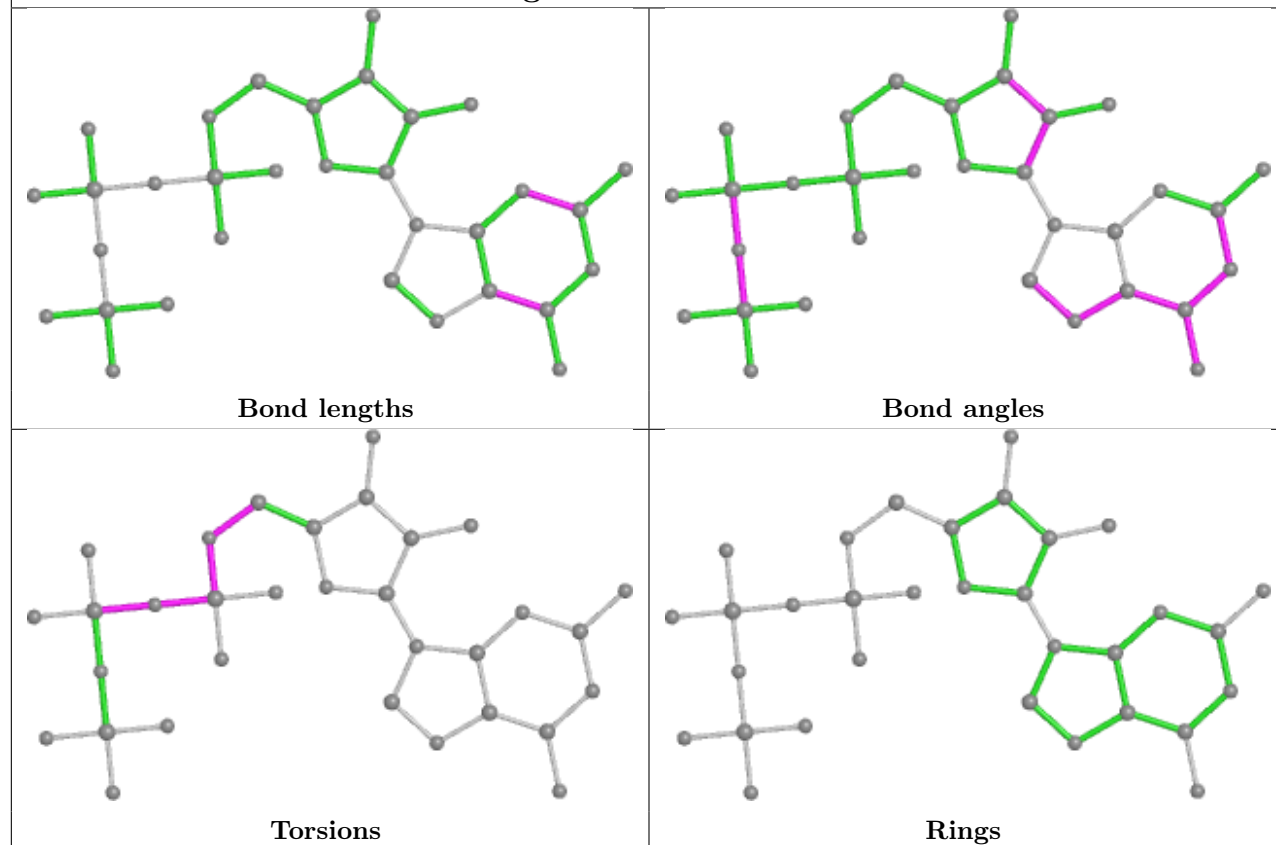
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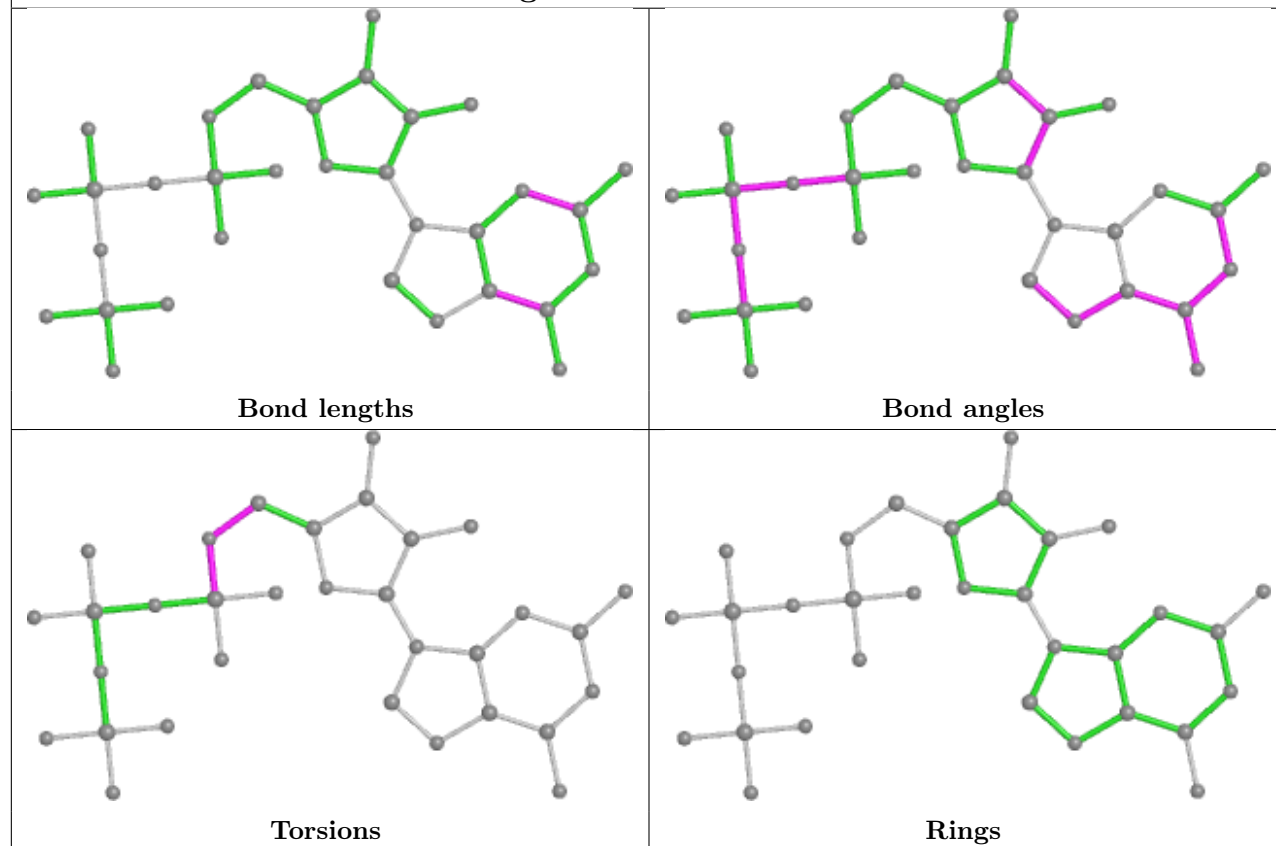
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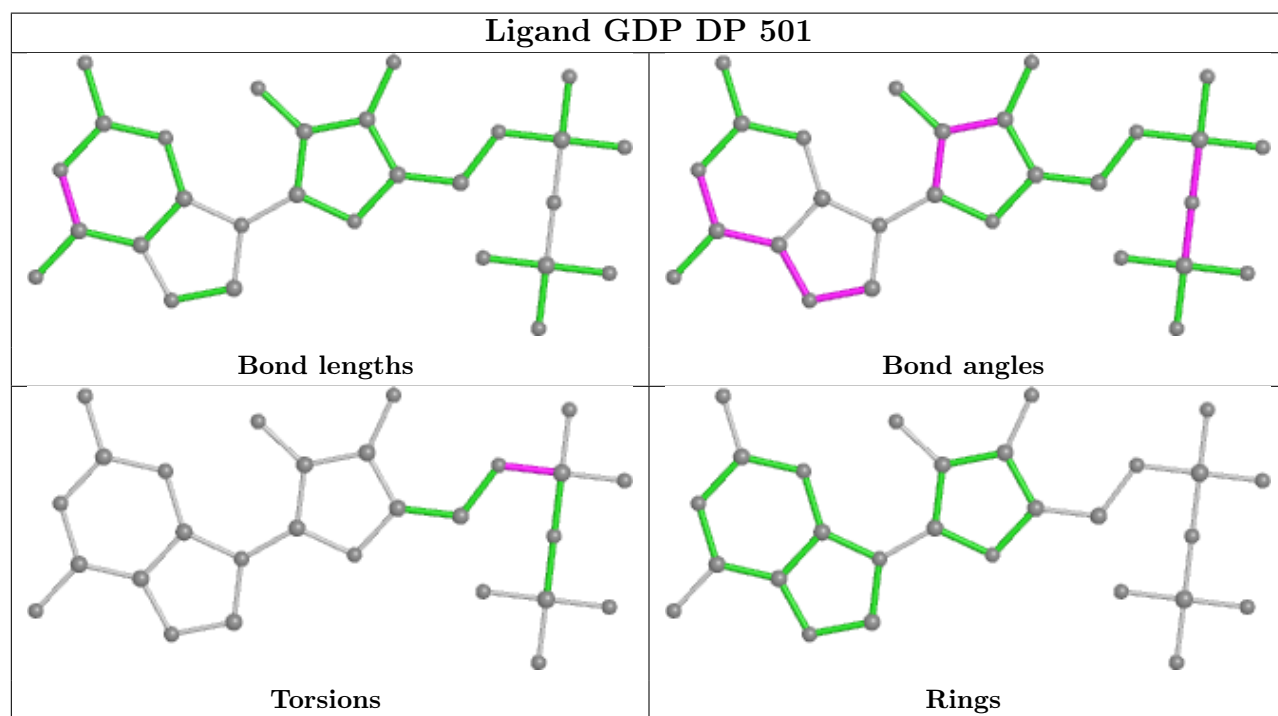
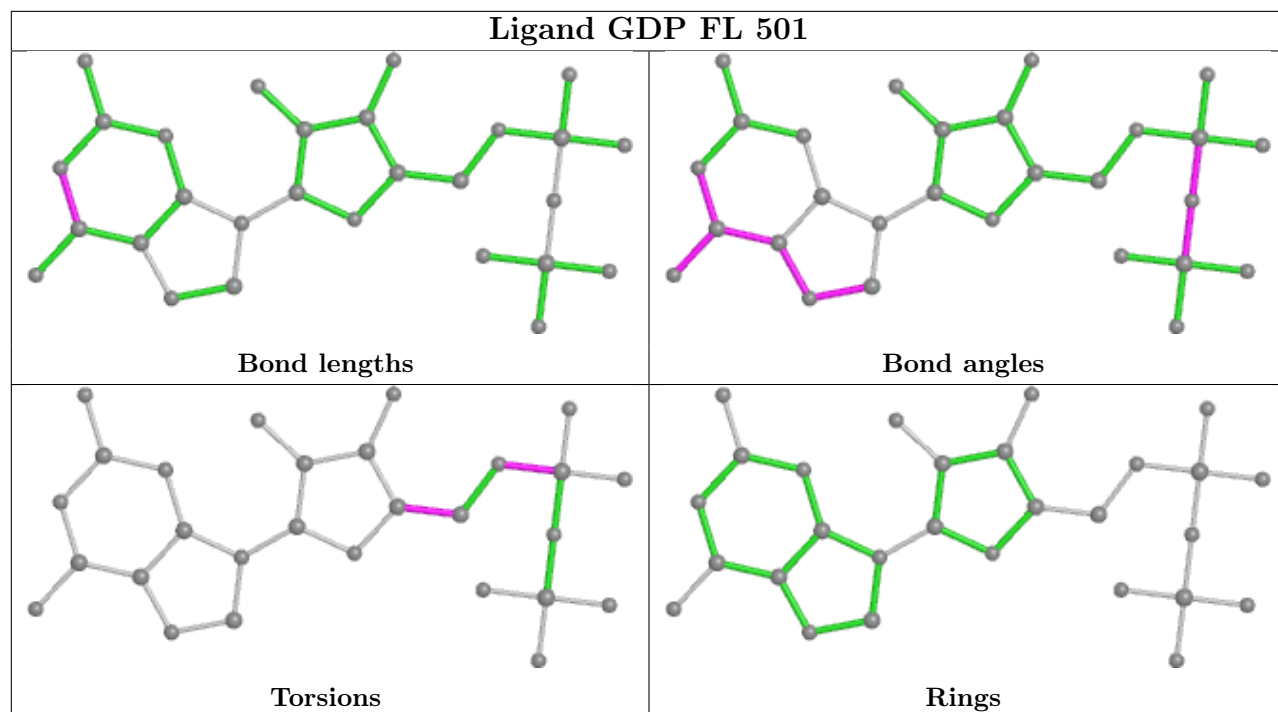


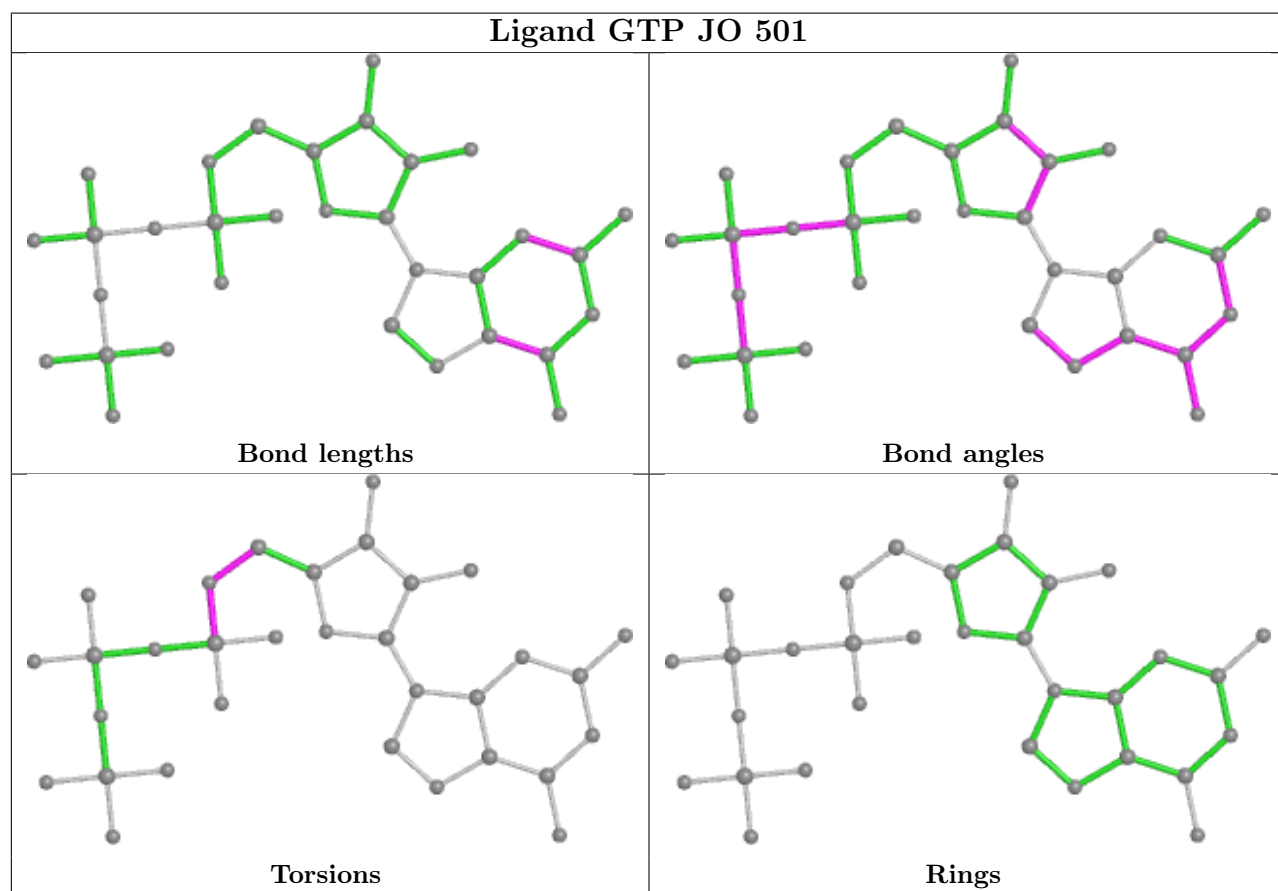
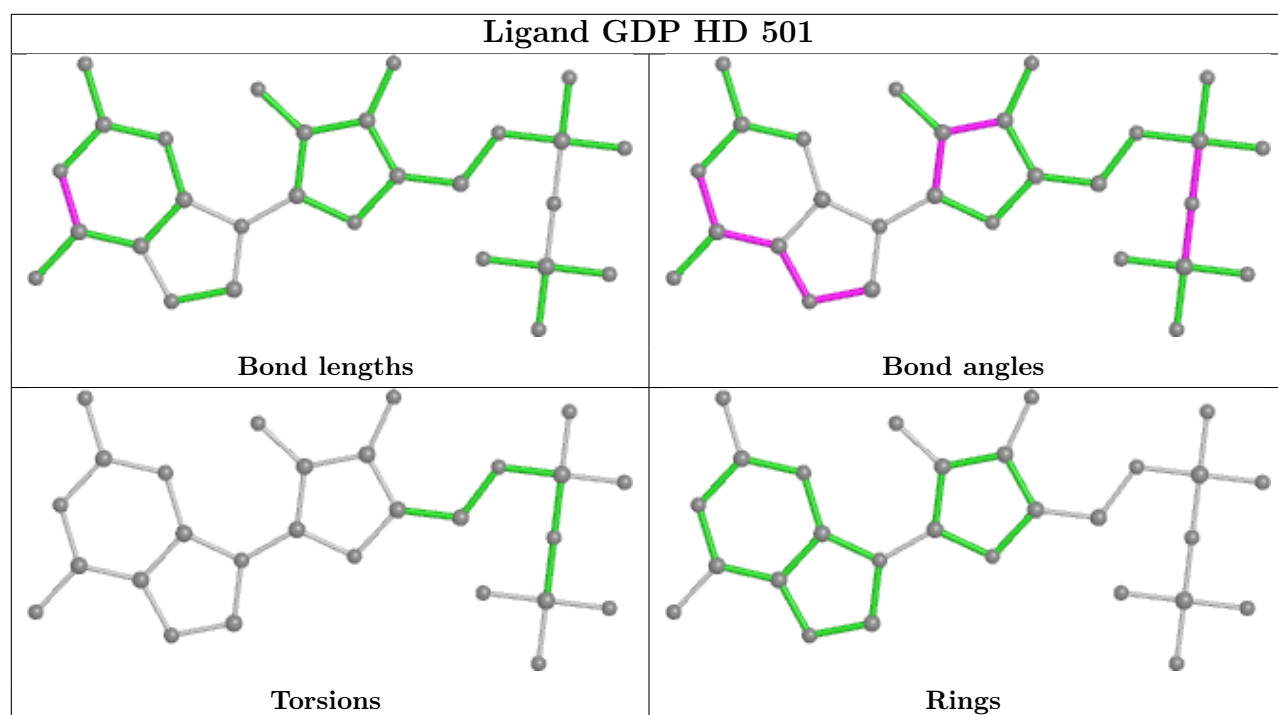
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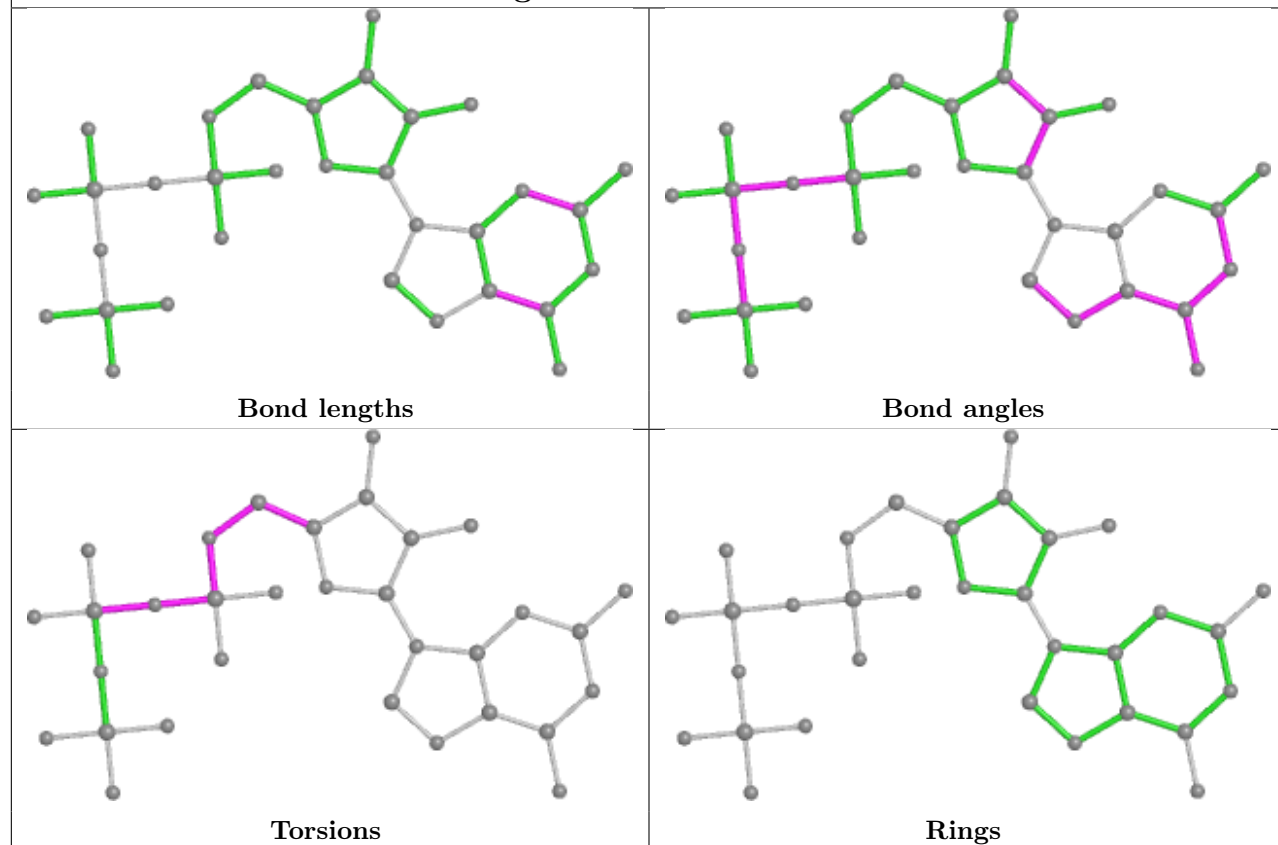
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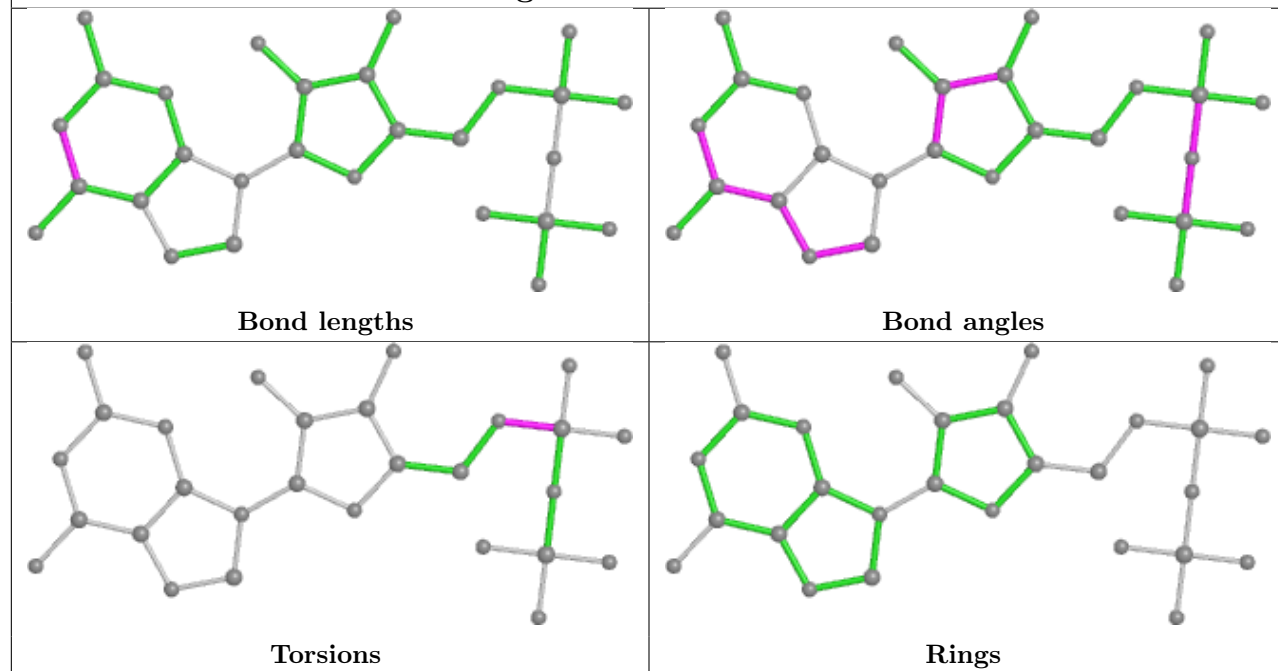




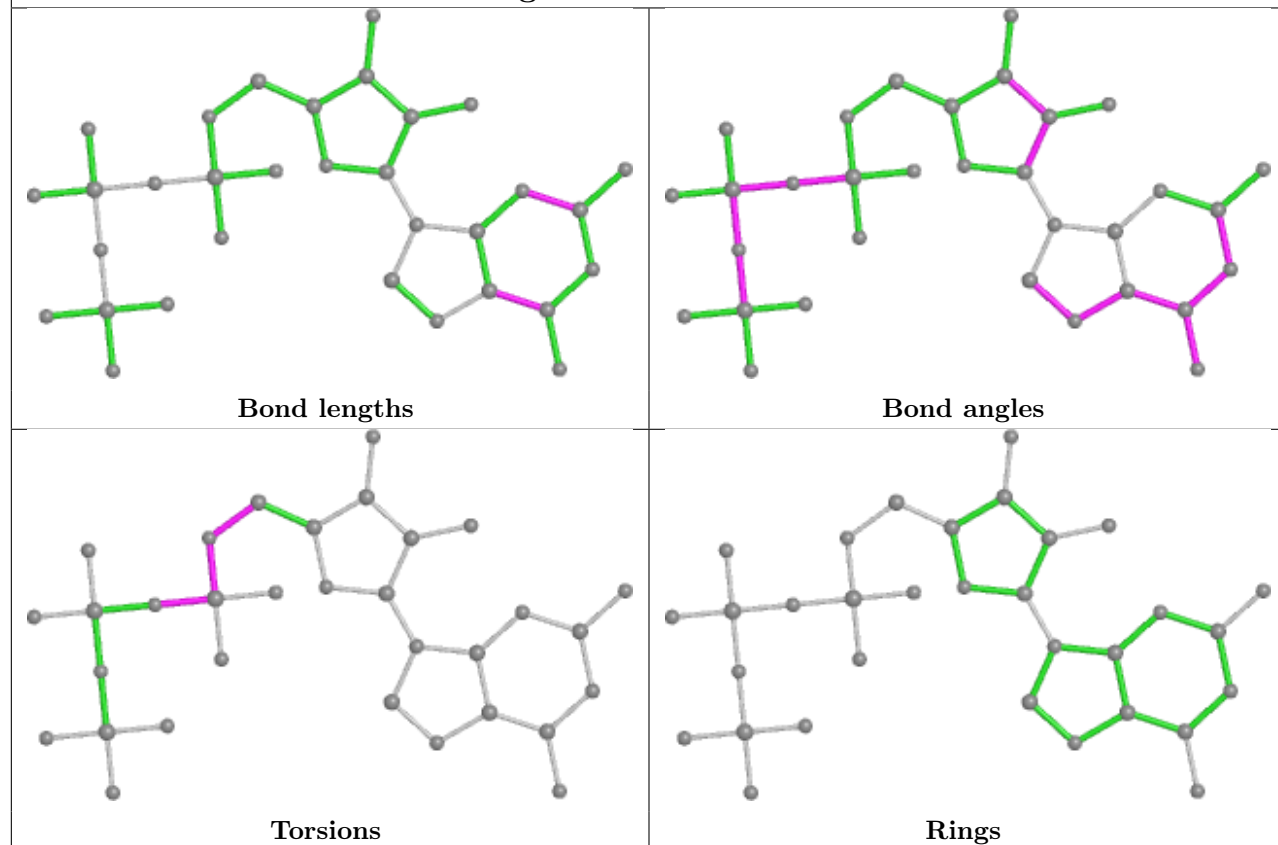
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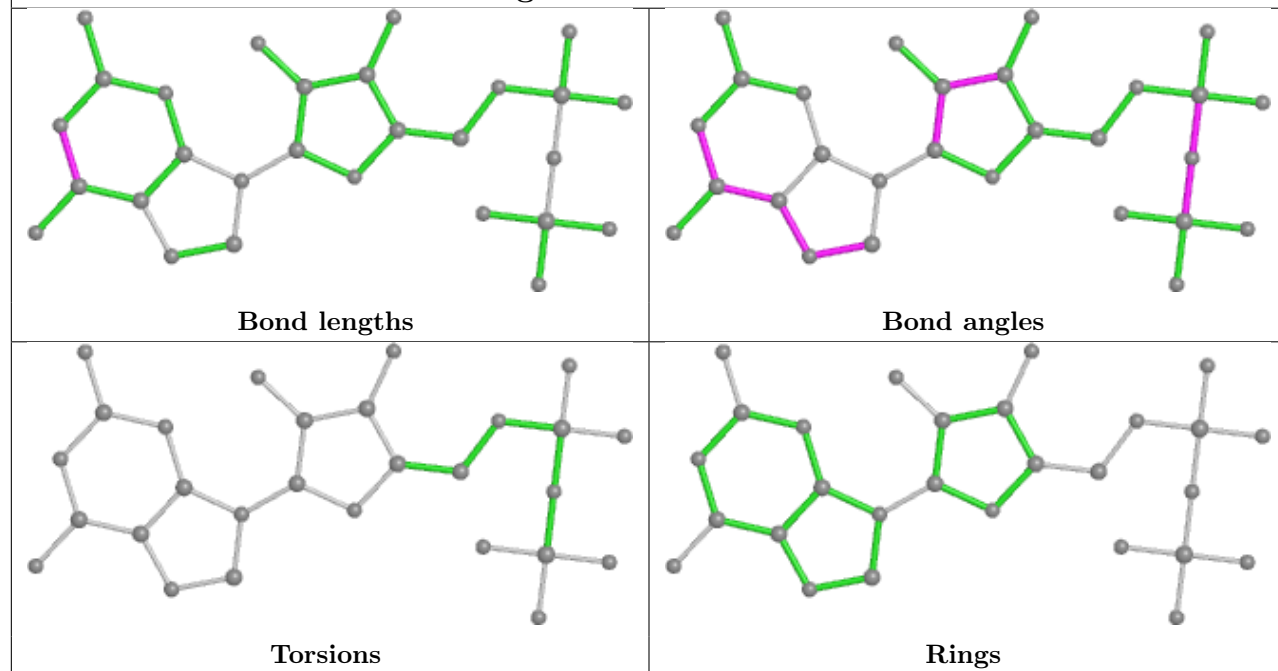
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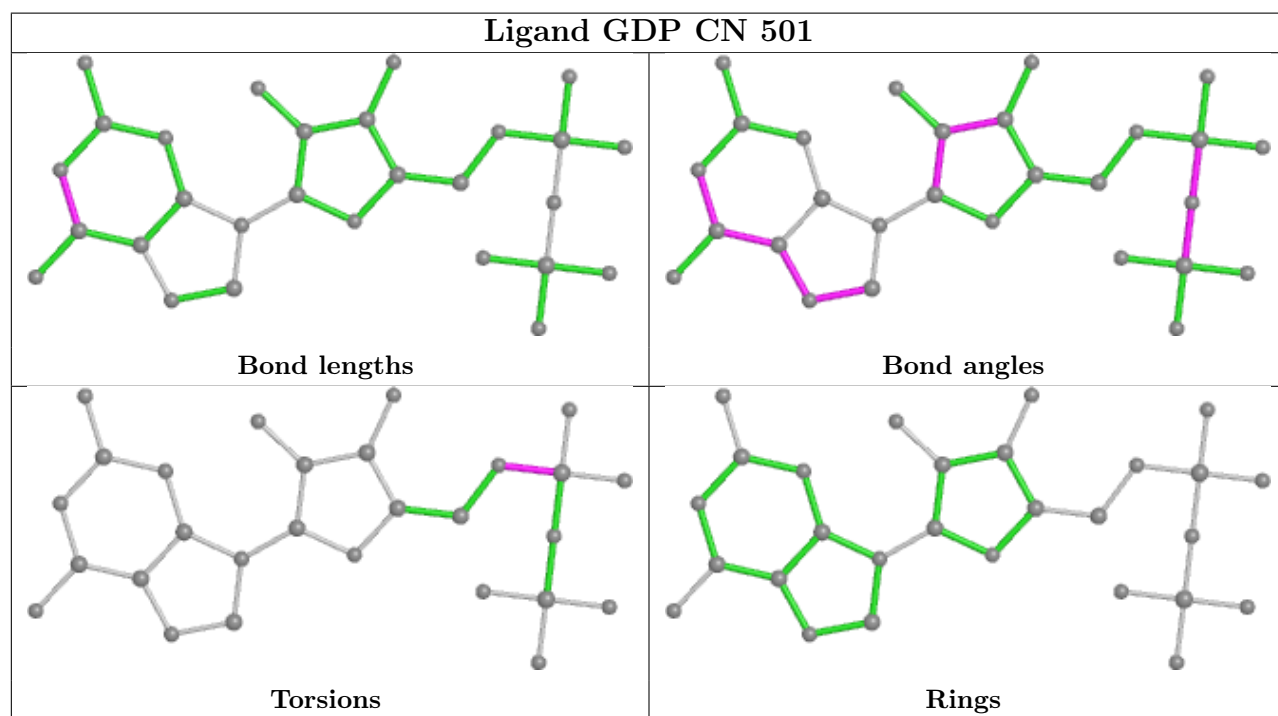
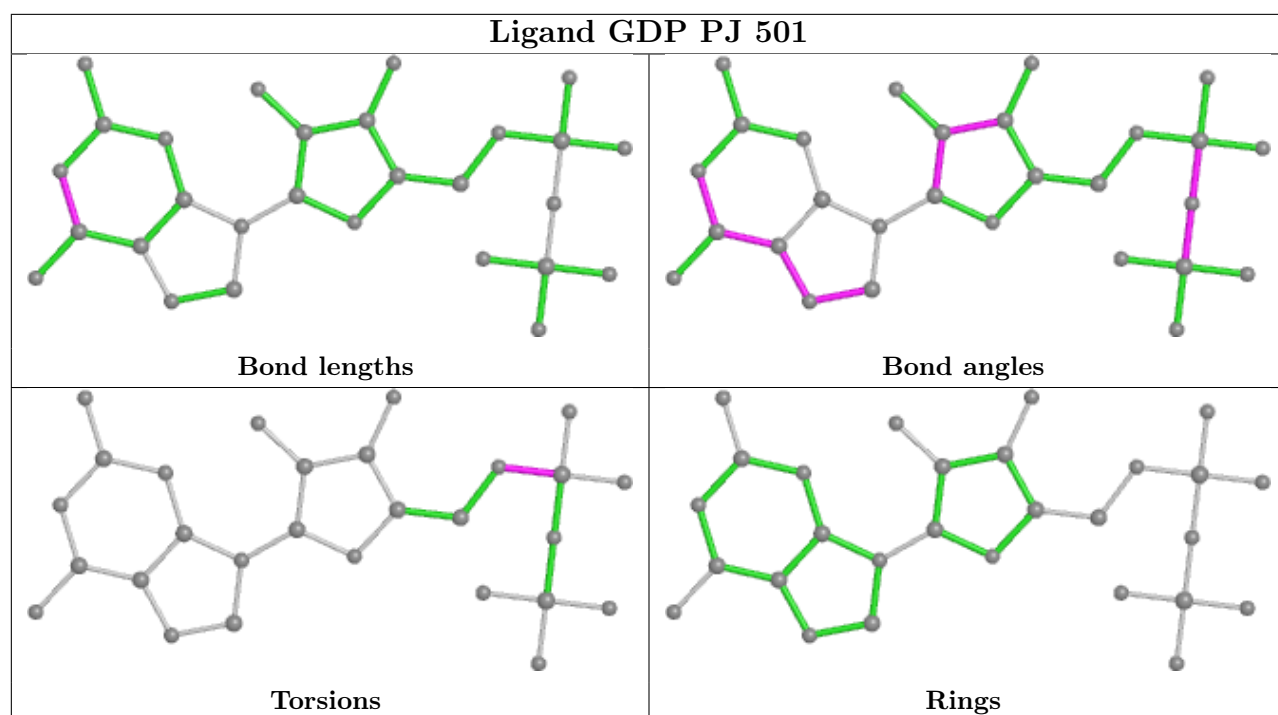


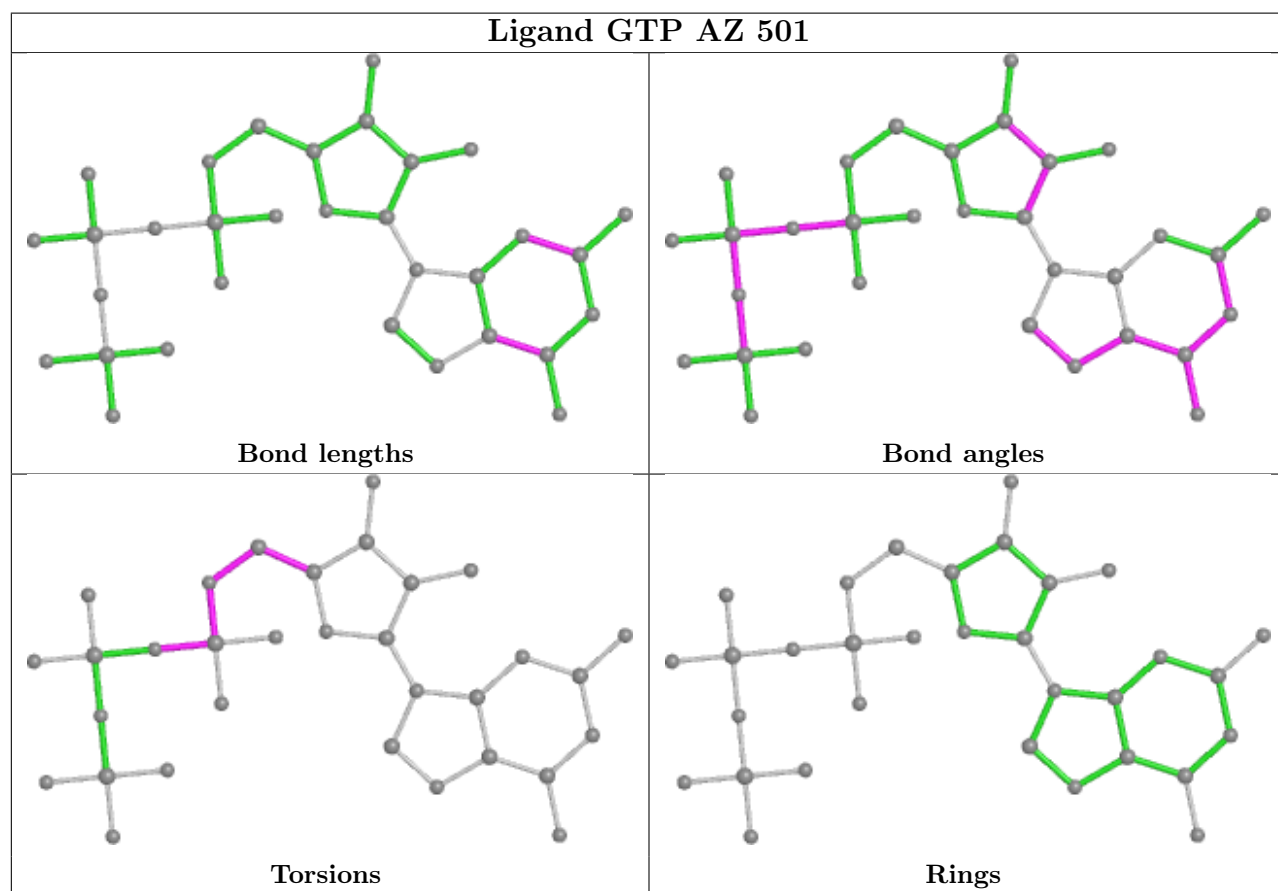
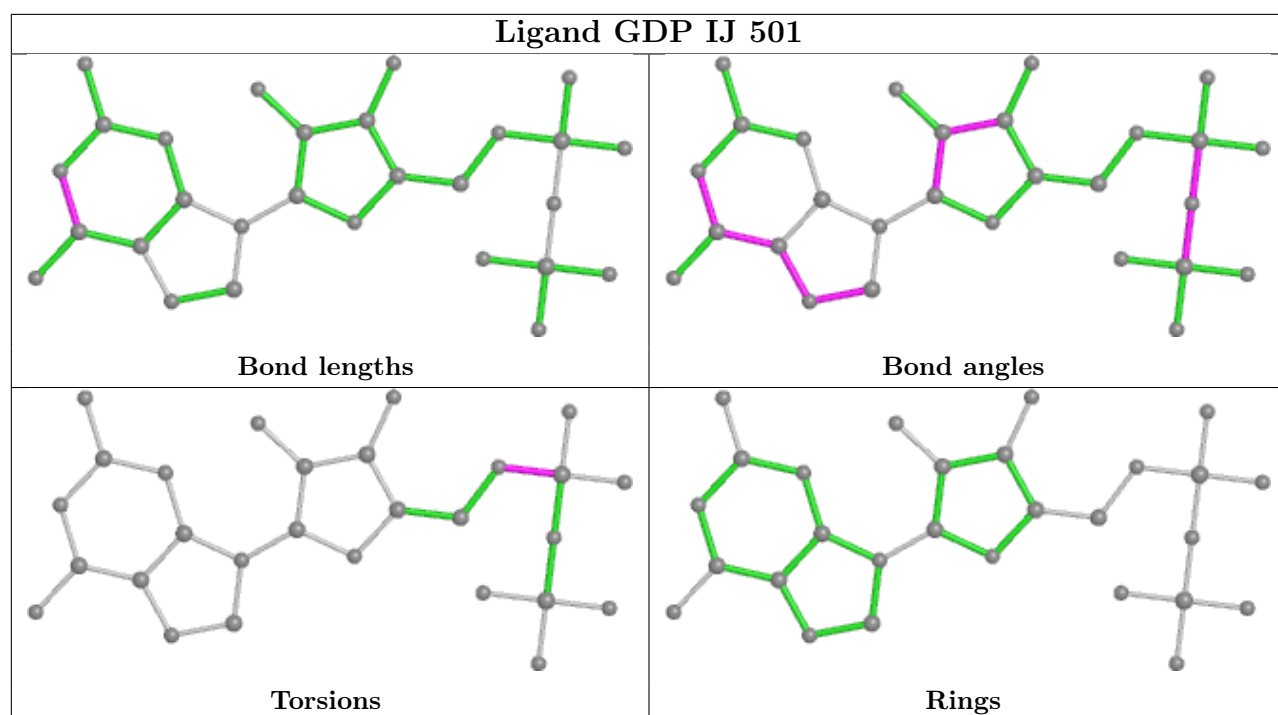
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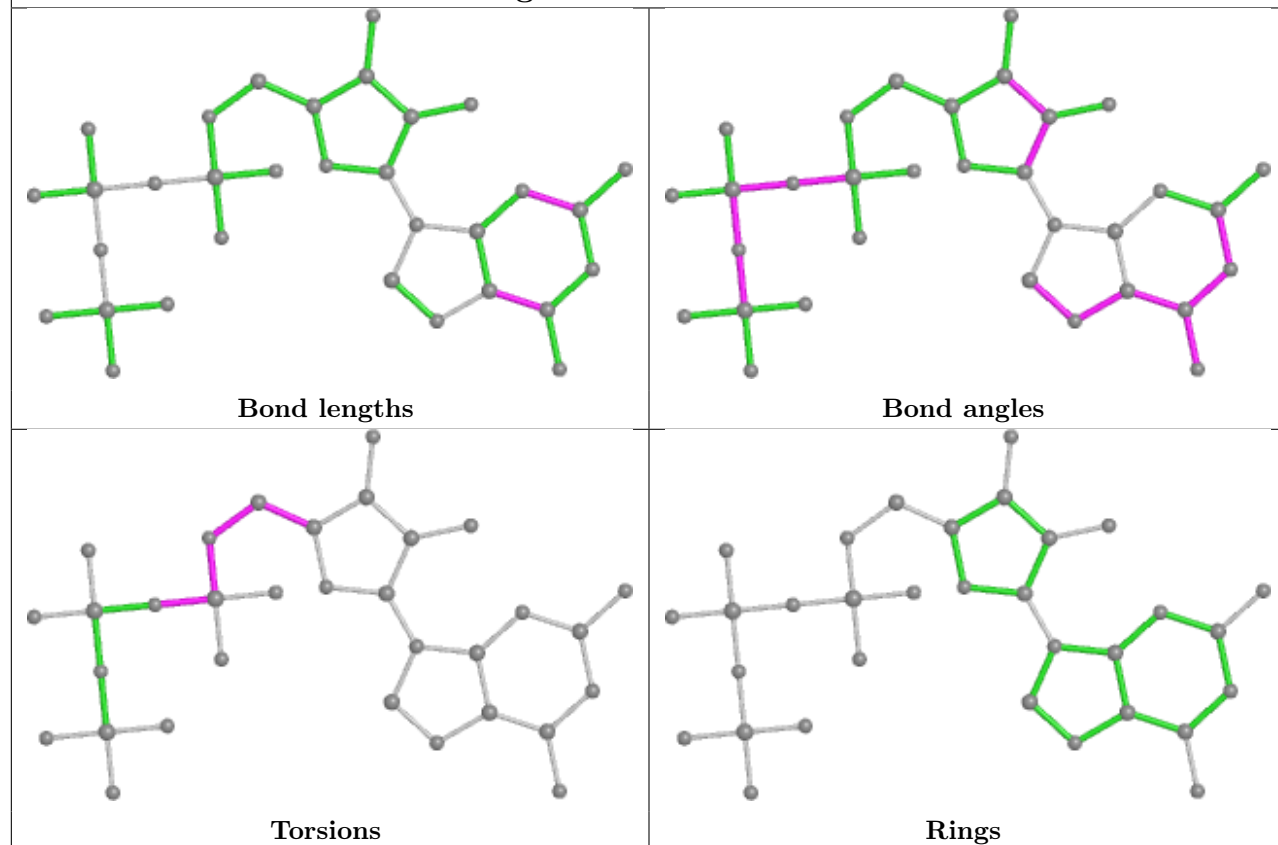
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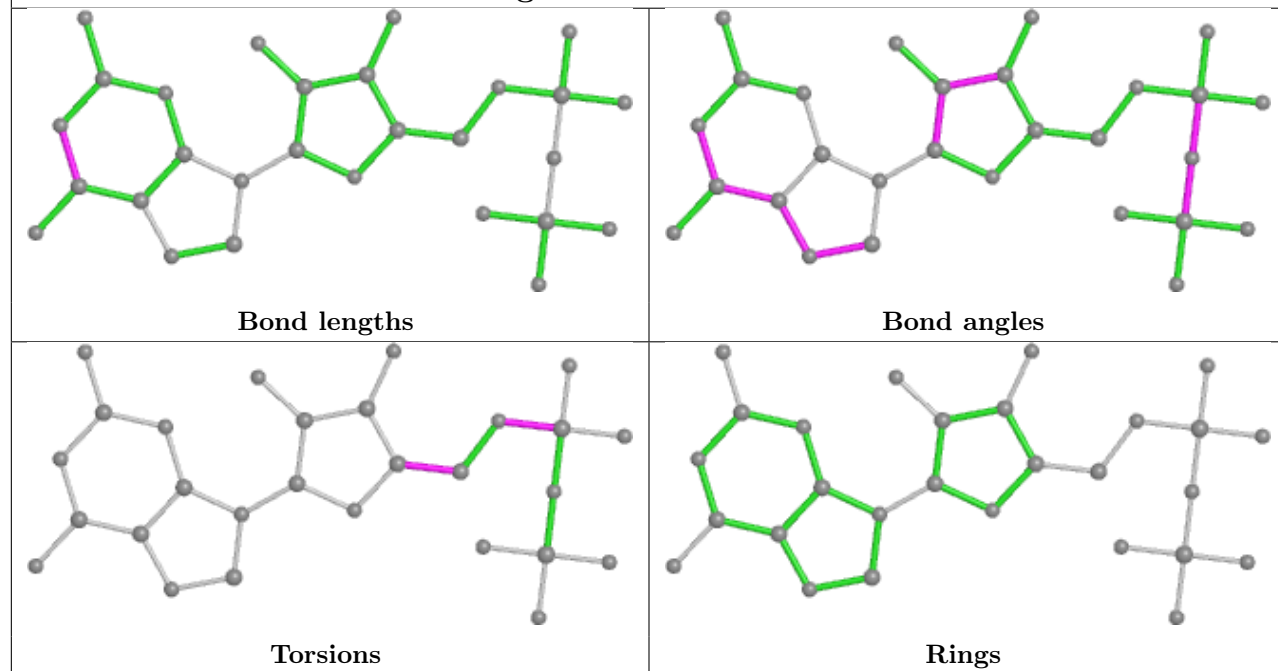




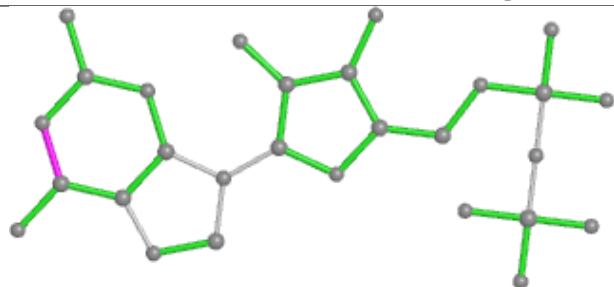
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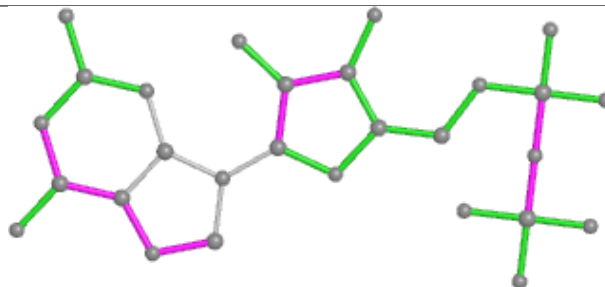
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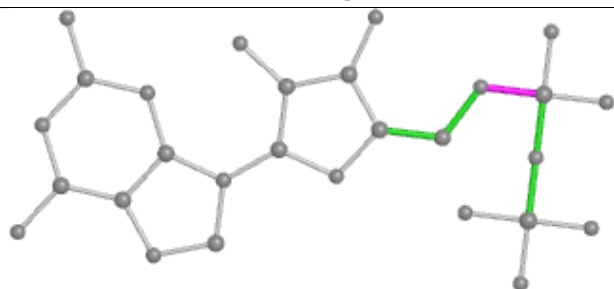
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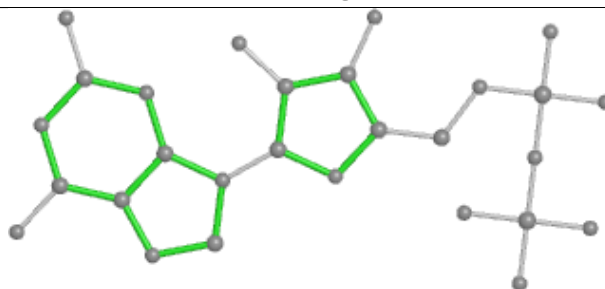
Bond lengths



Bond angles

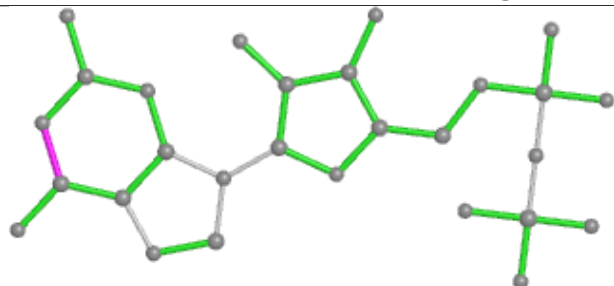


Torsions

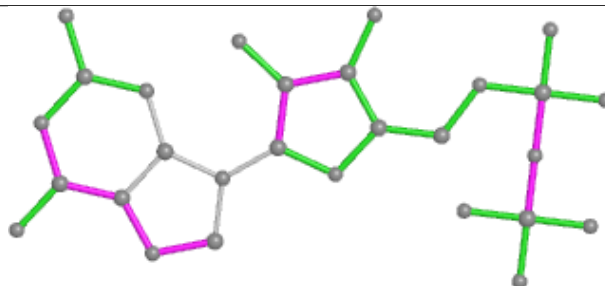


Rings

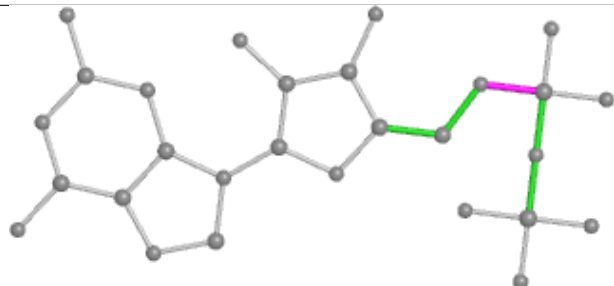
Ligand GDP VN 501



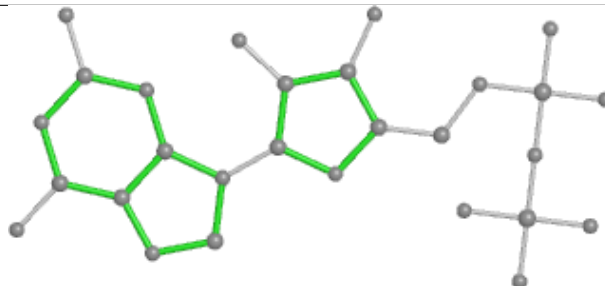
Bond lengths



Bond angles

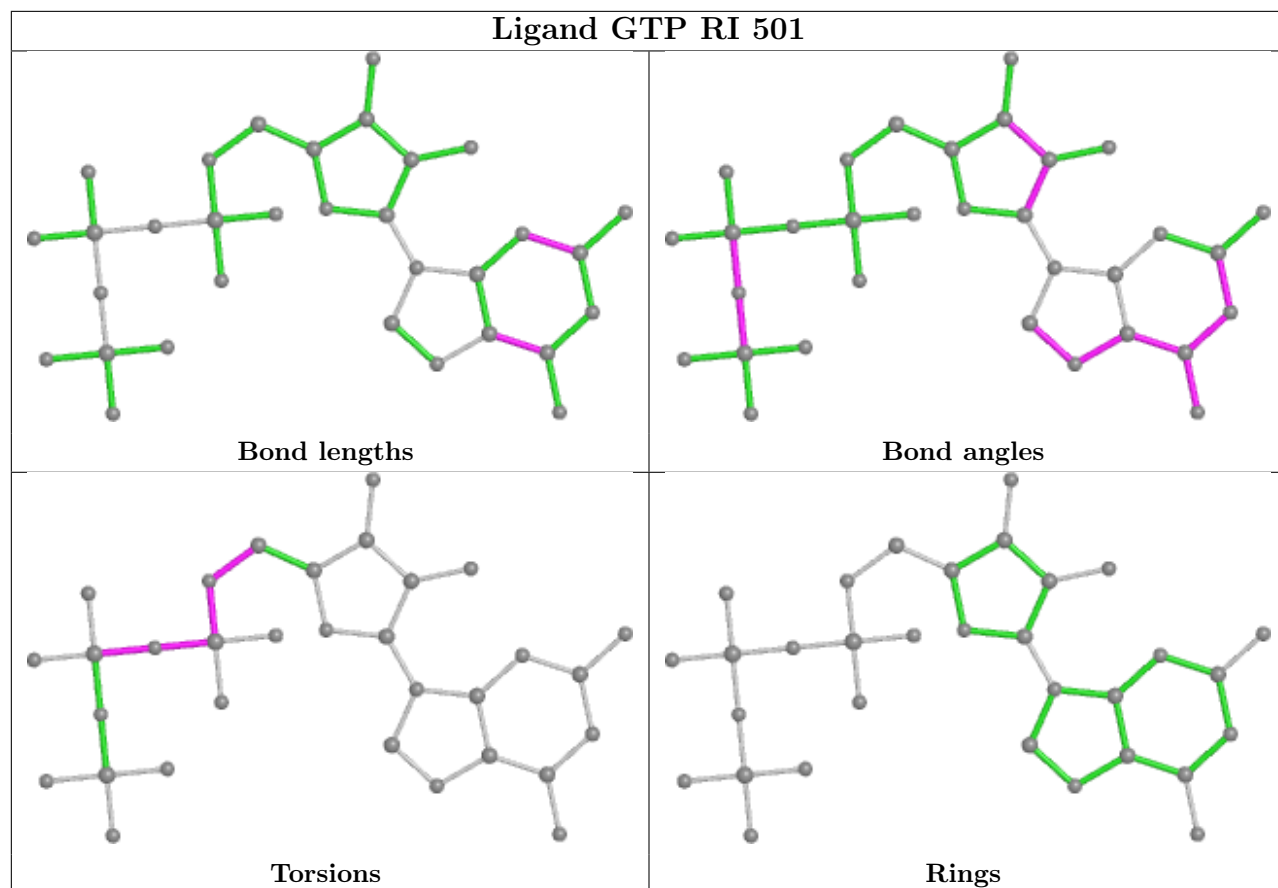


Torsions

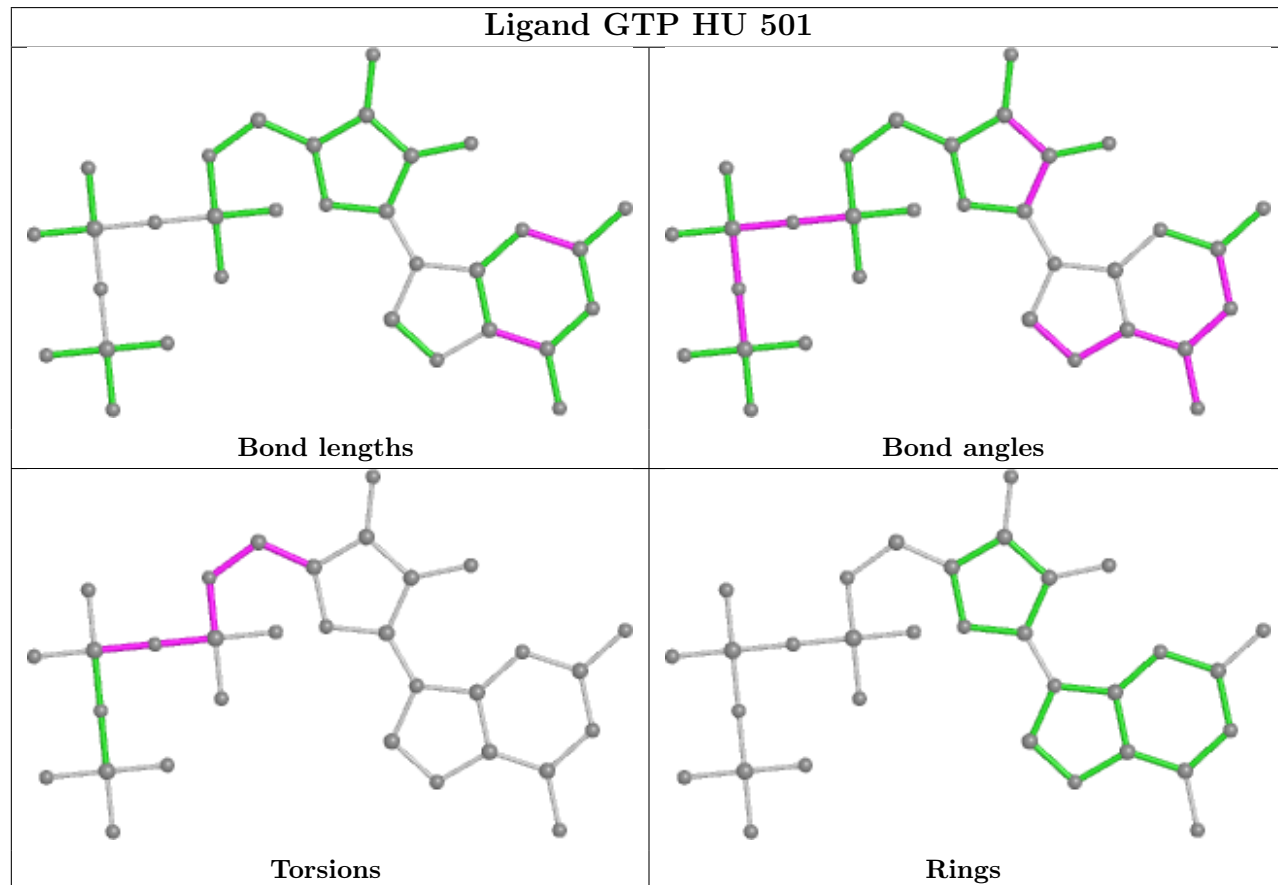


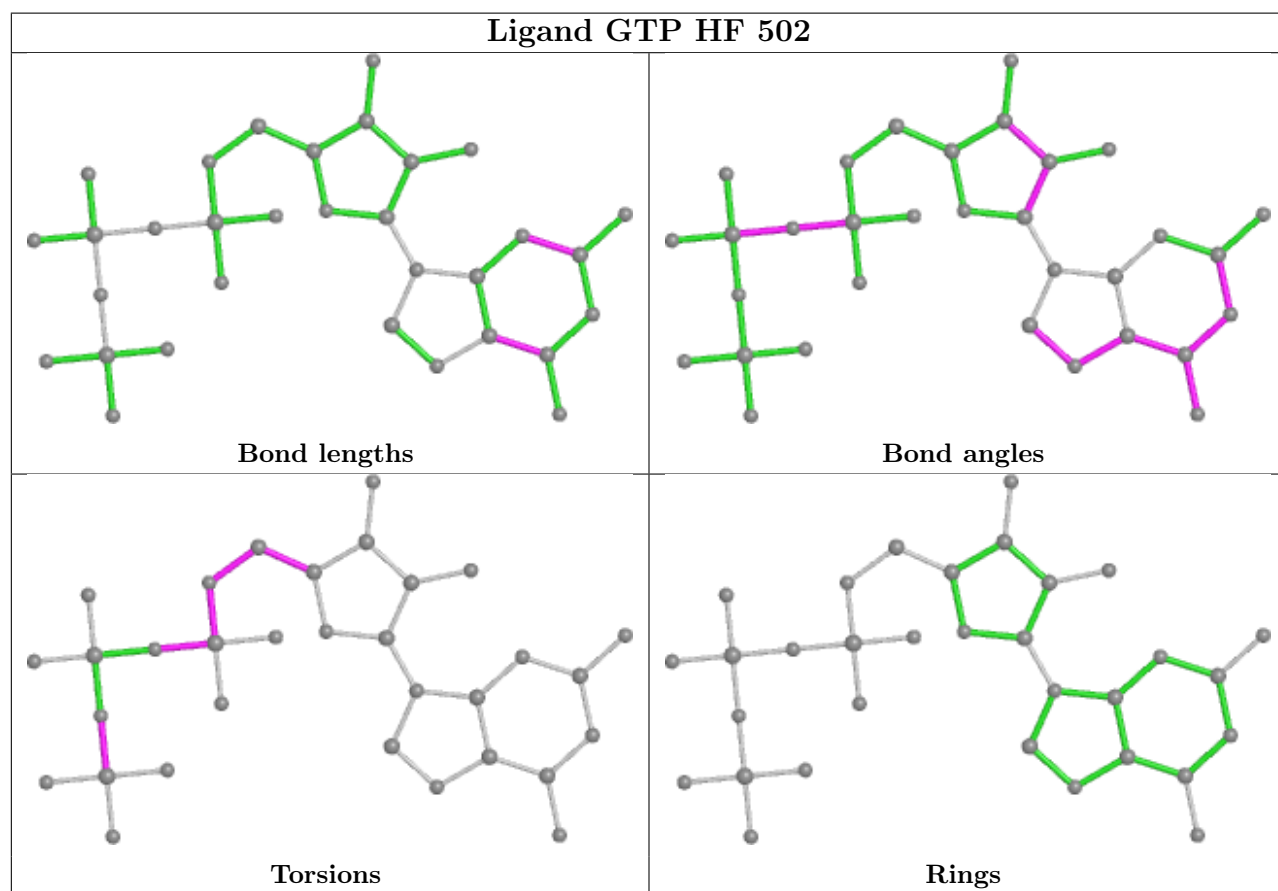
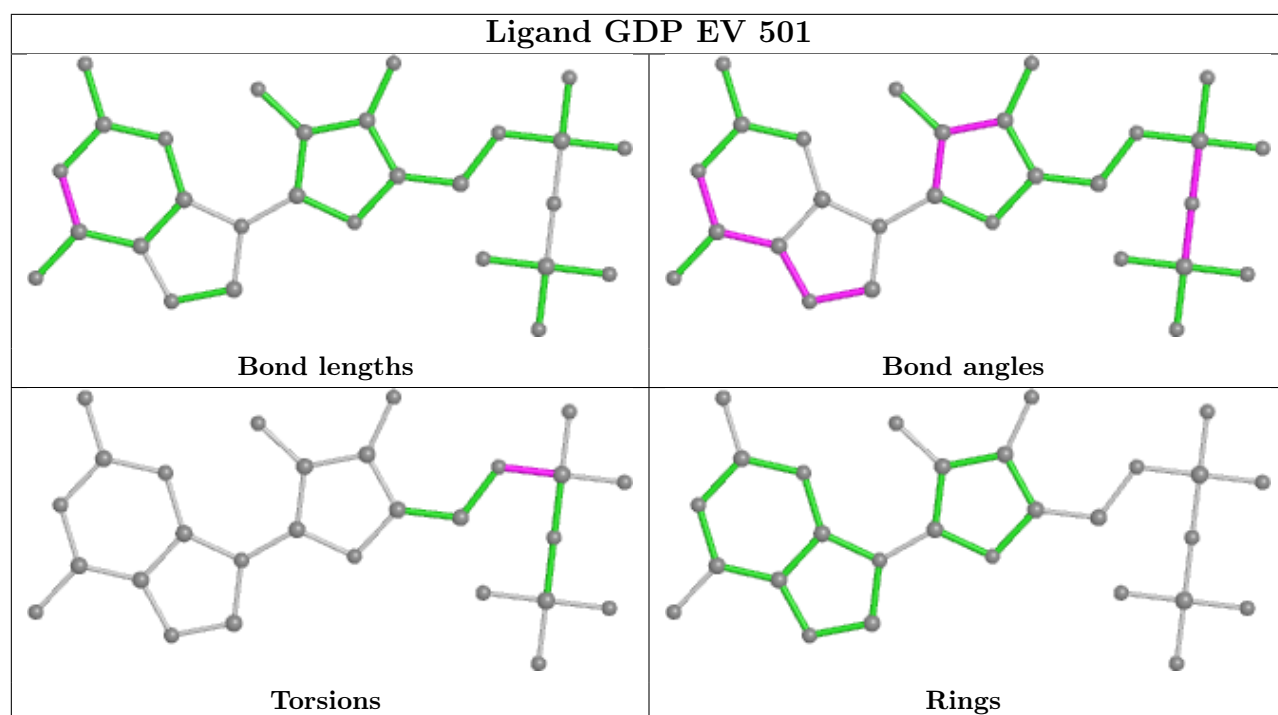
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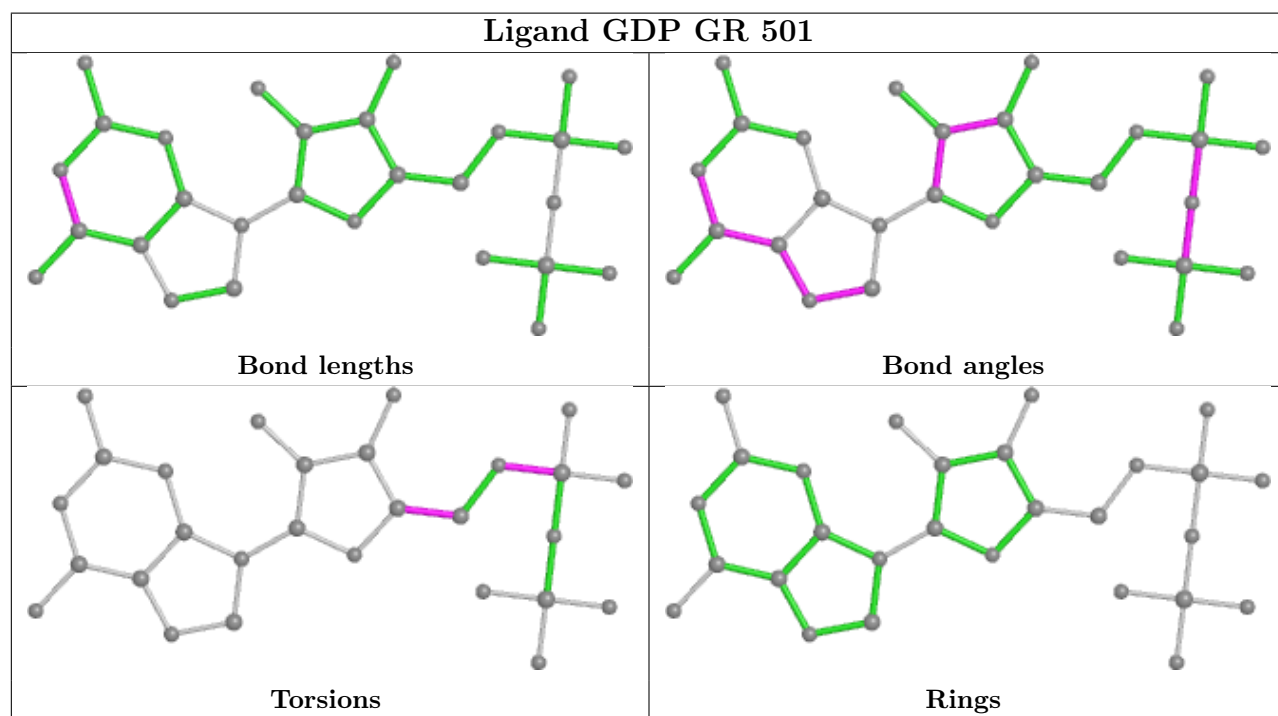
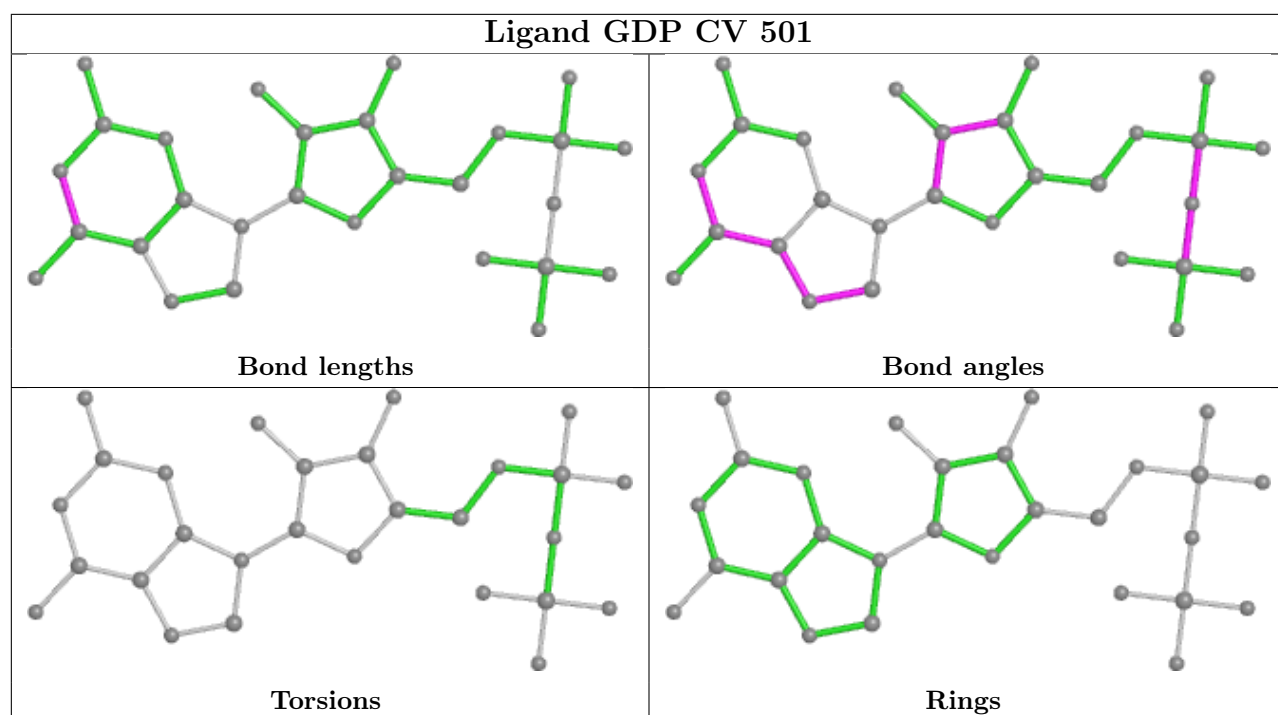
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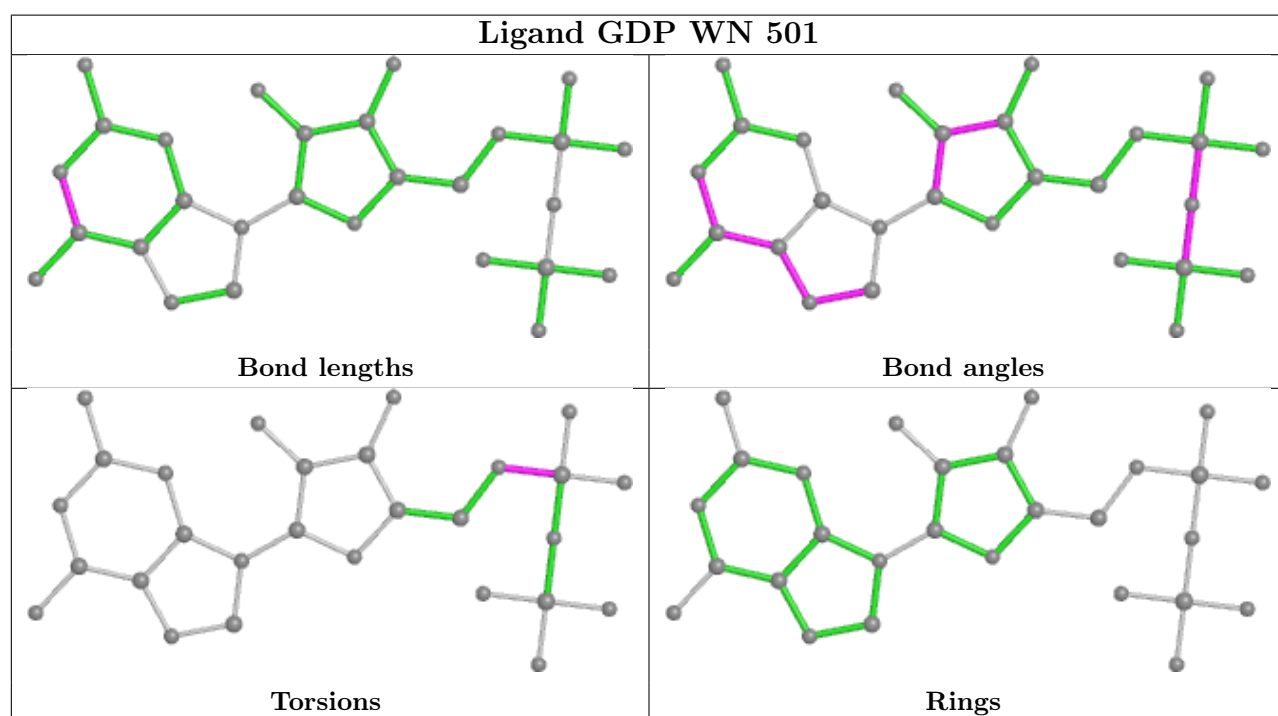
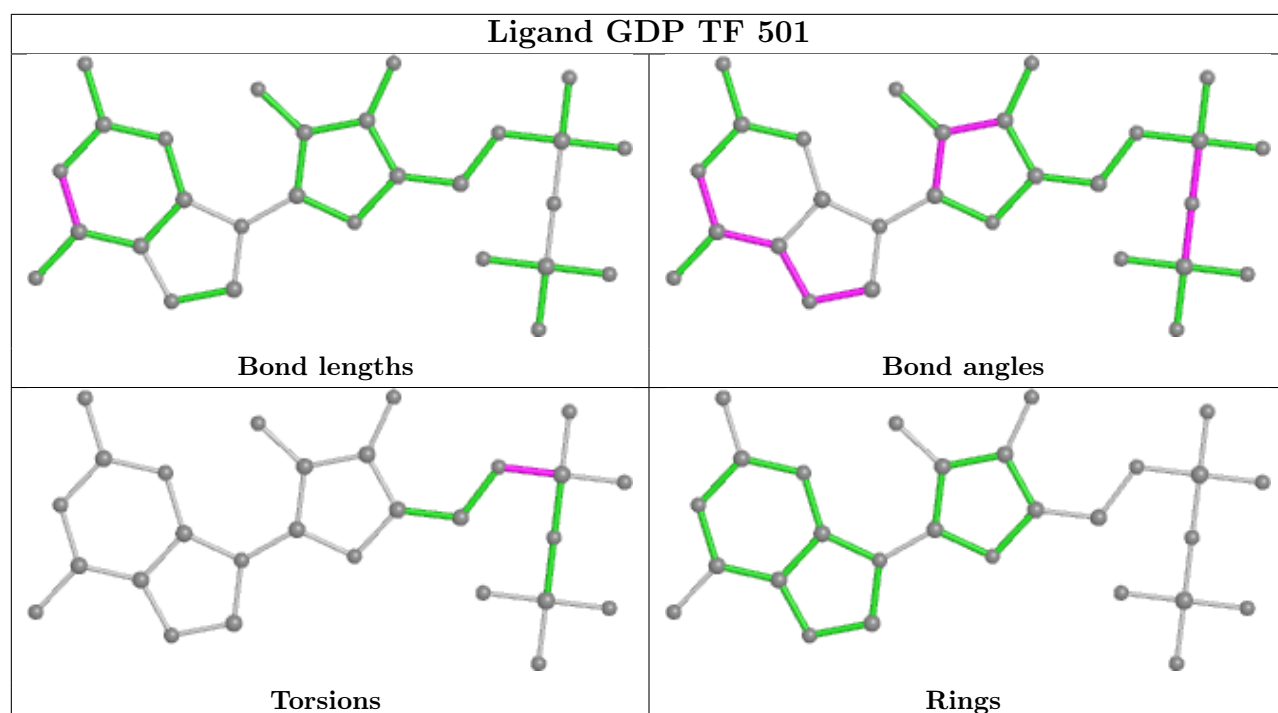


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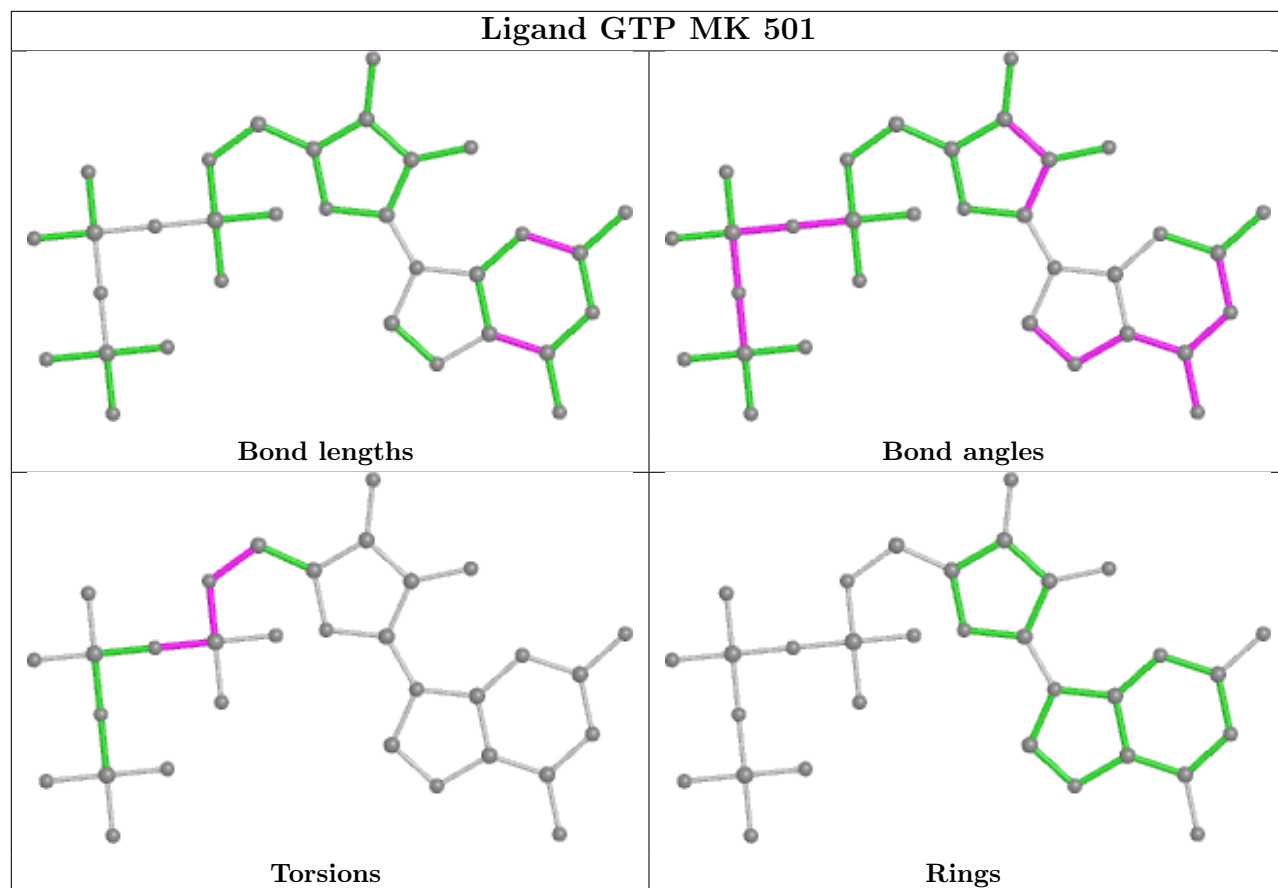




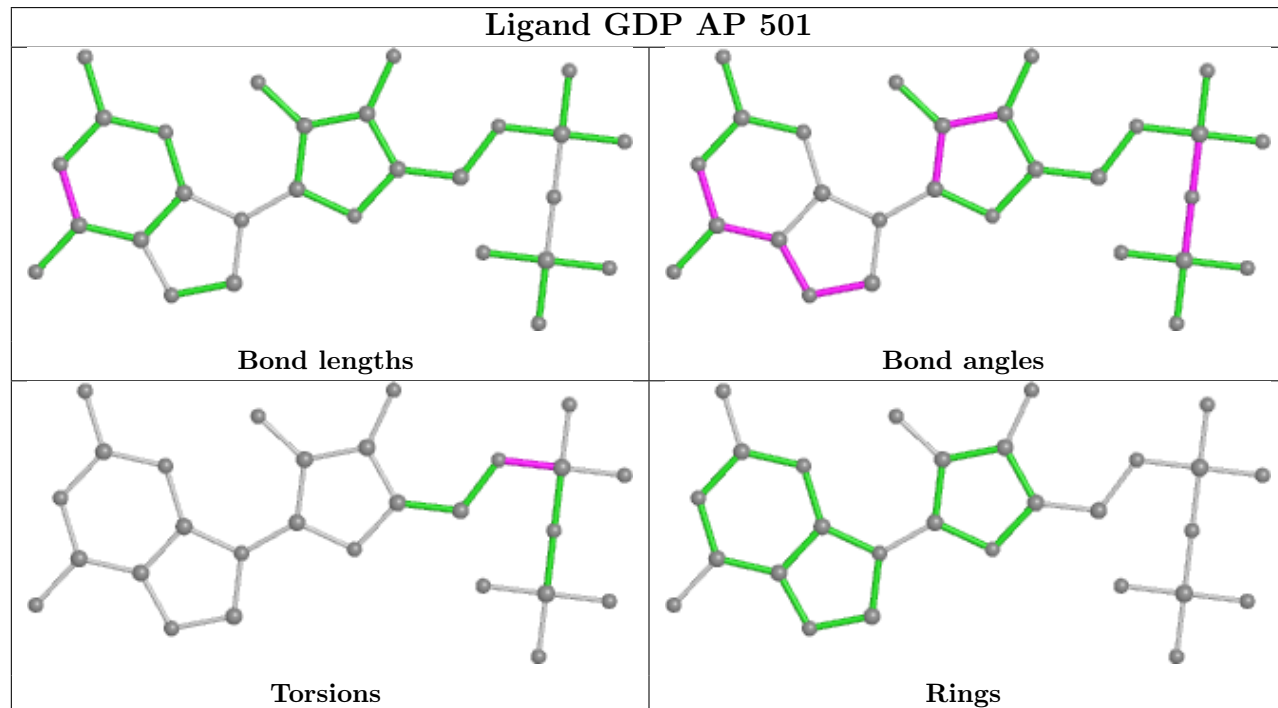




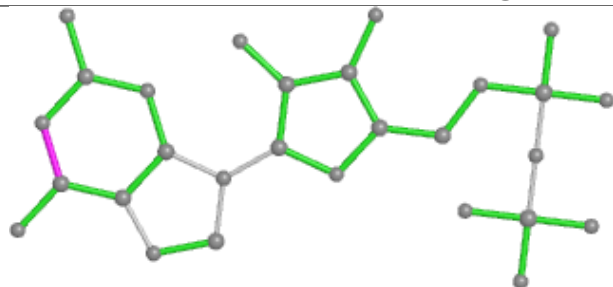
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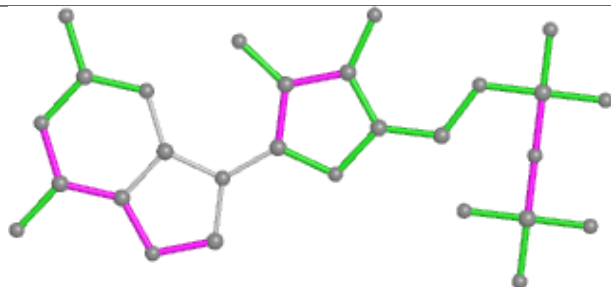
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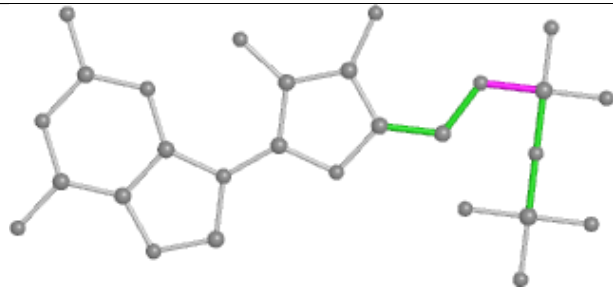
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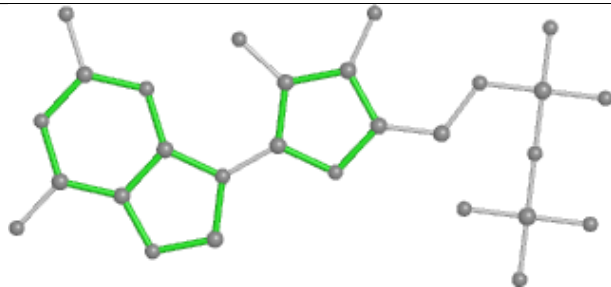
Bond lengths



Bond angles

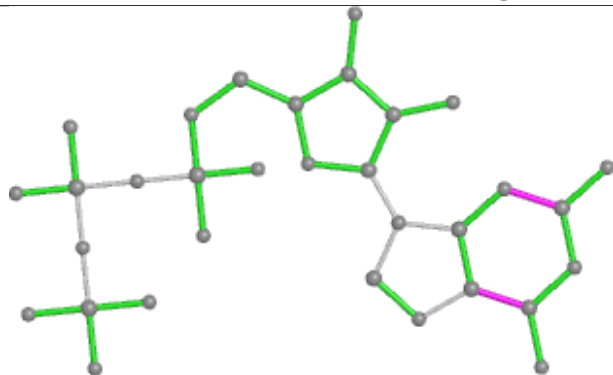


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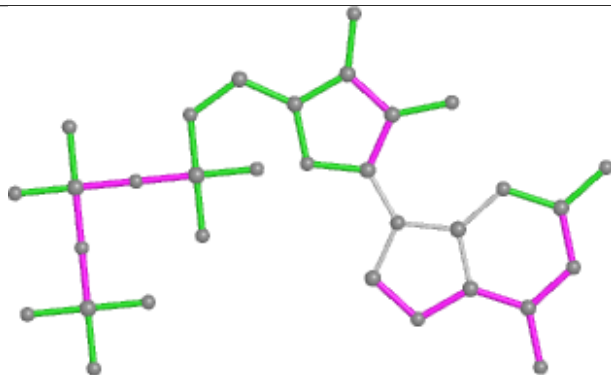


Rings

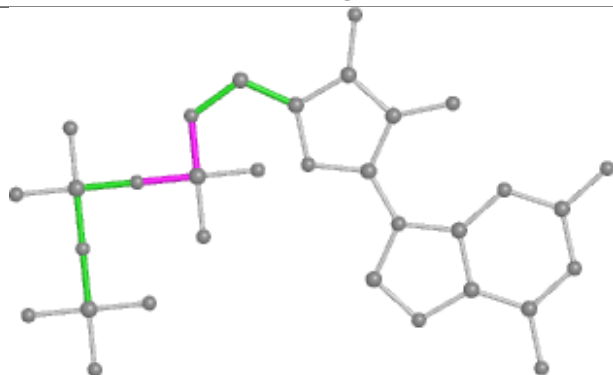
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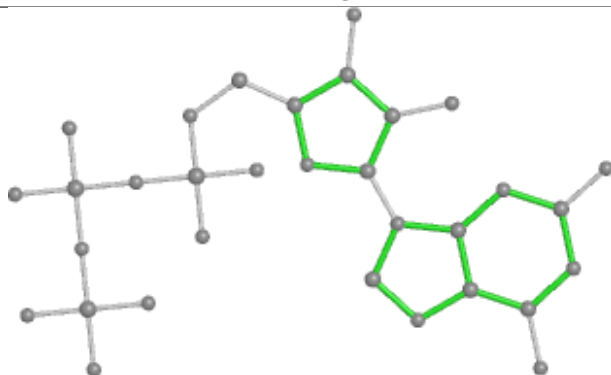
Bond lengths



Bond angles

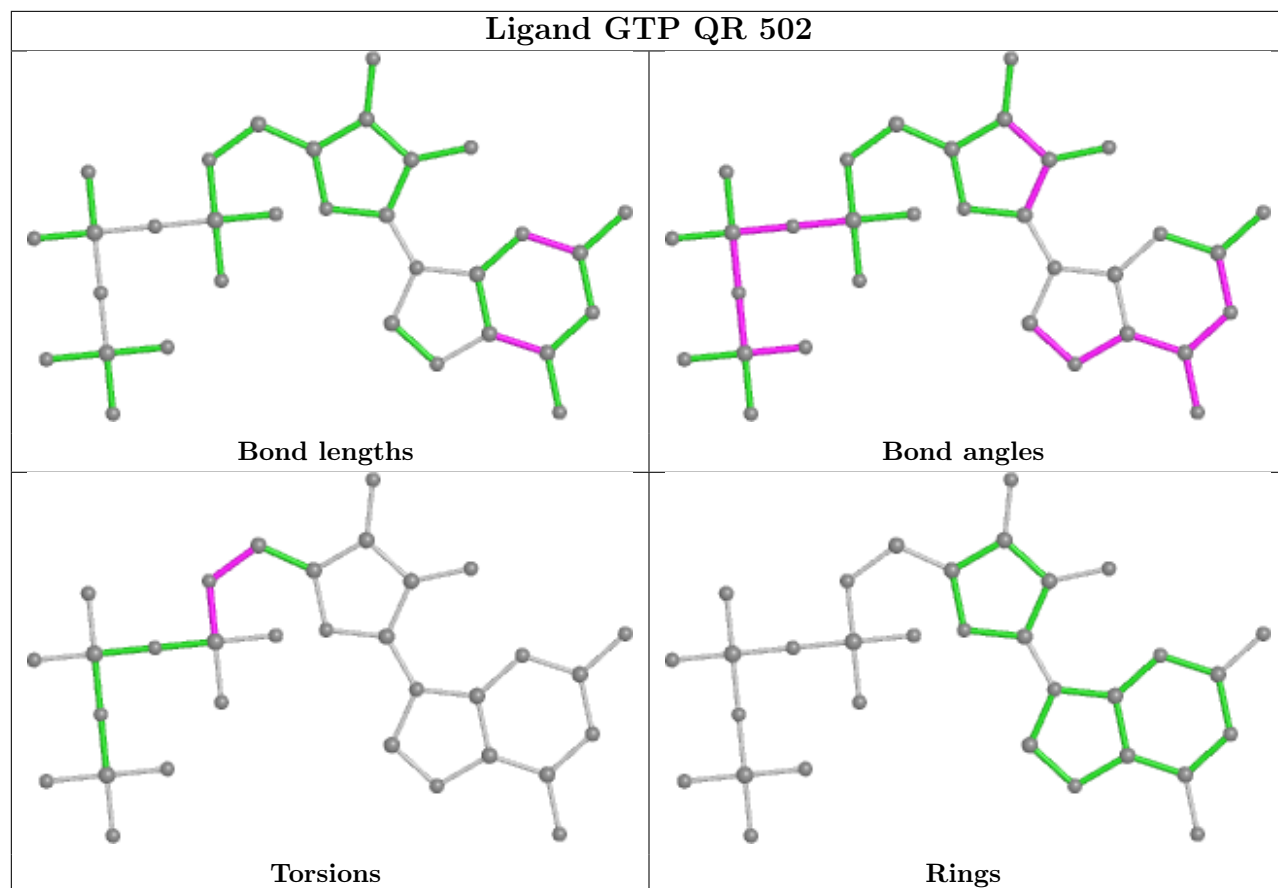


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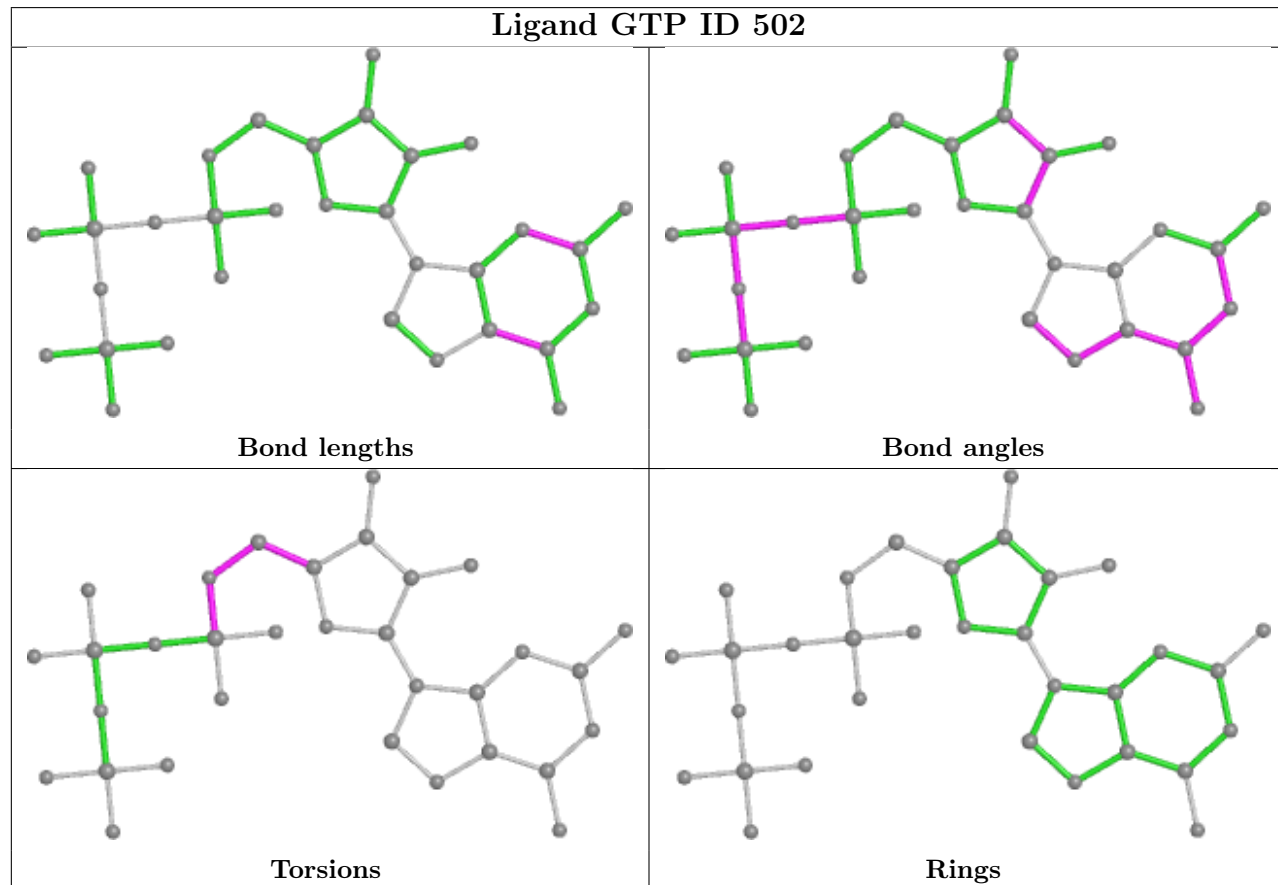


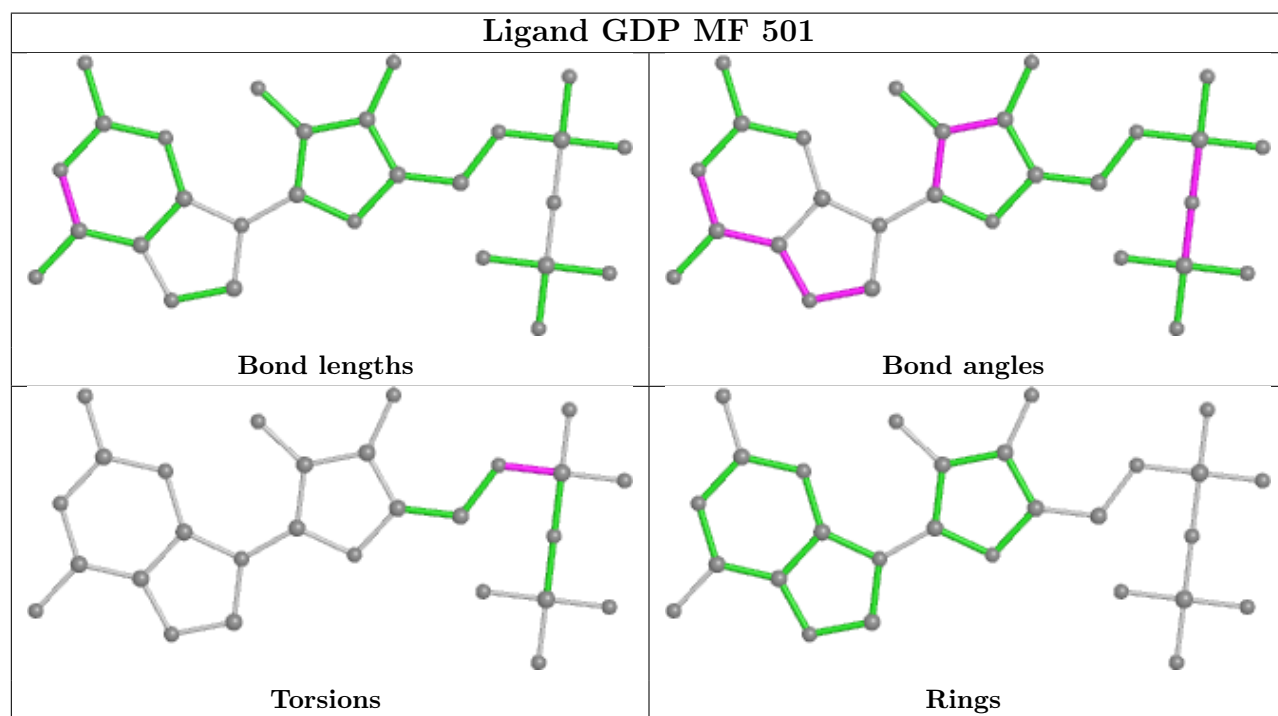
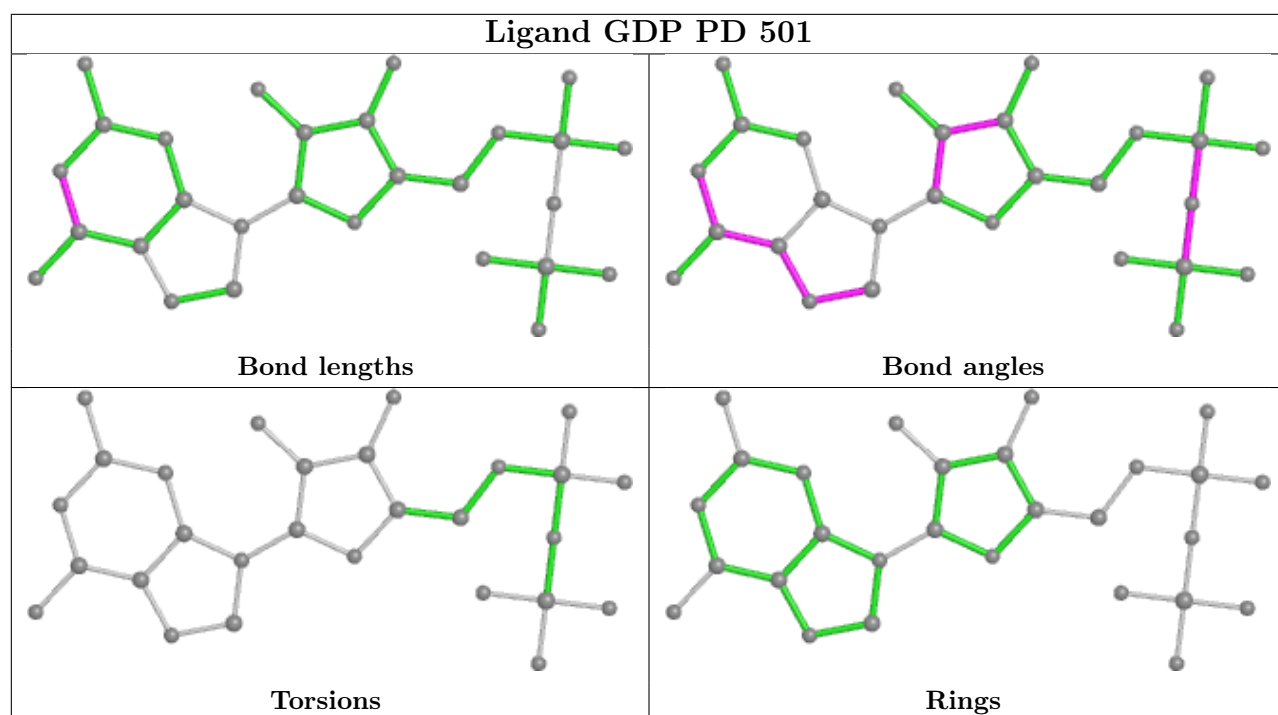
Rings

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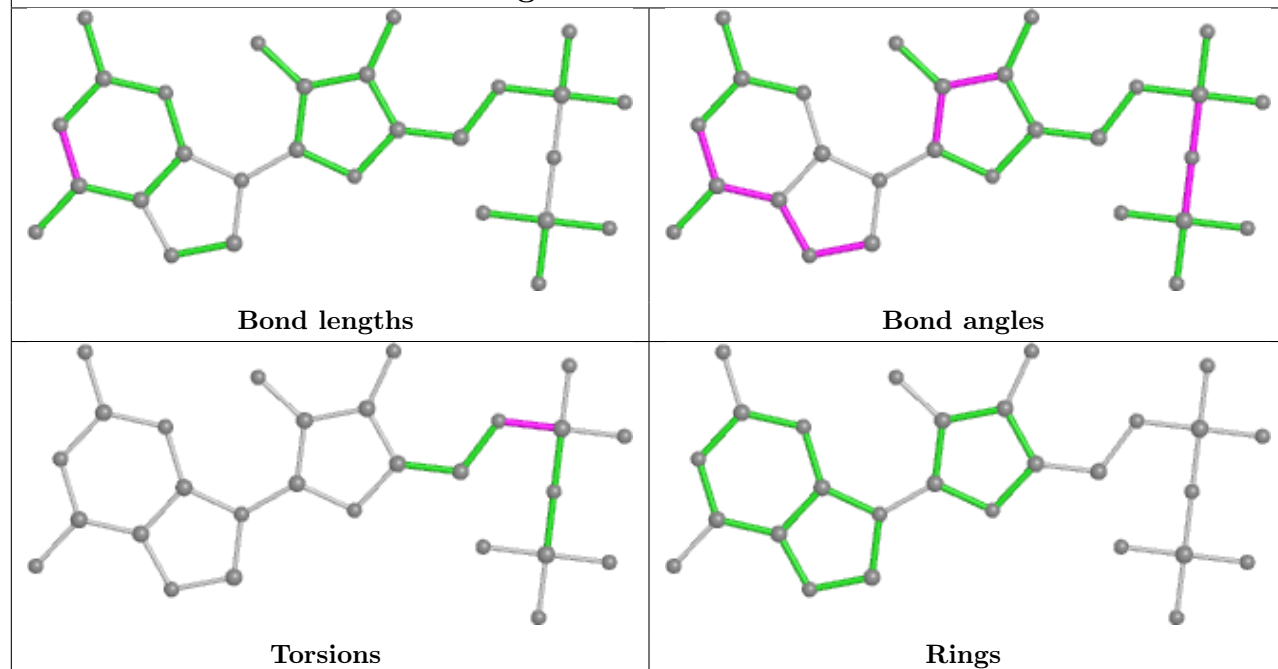


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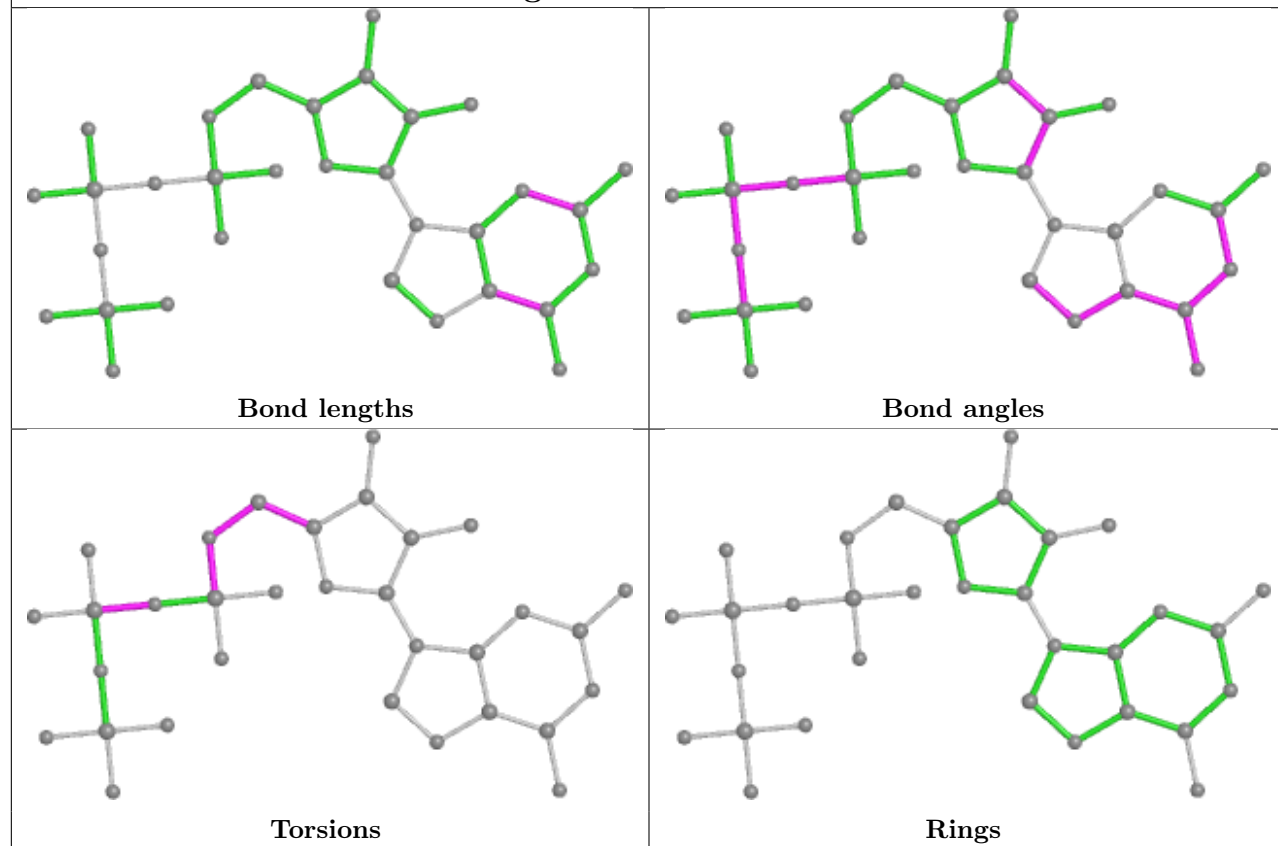




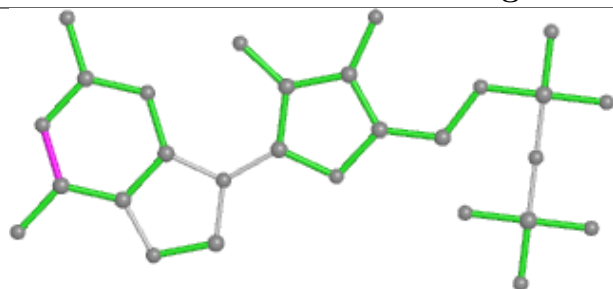
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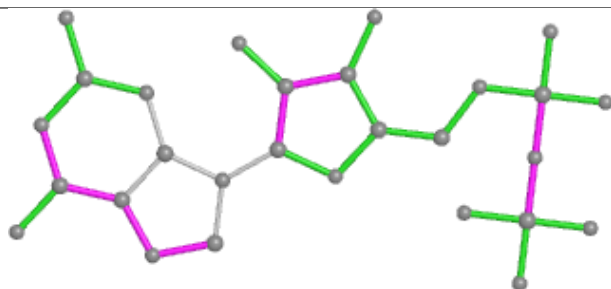
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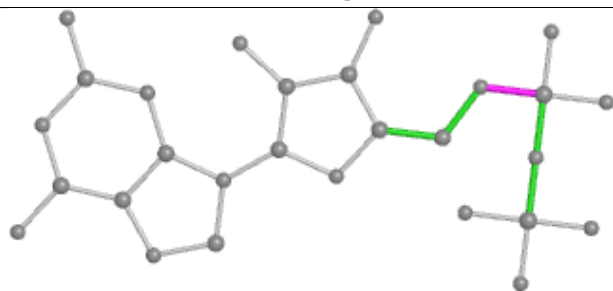
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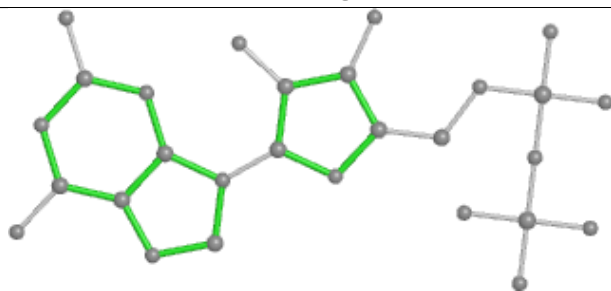
Bond lengths



Bond angles

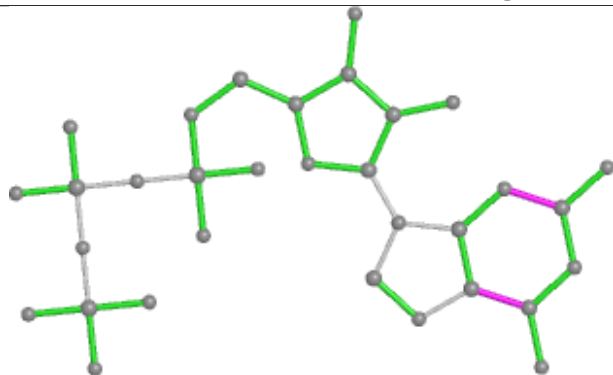


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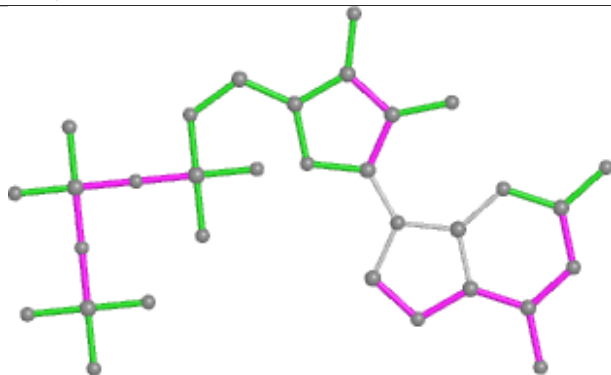


Rings

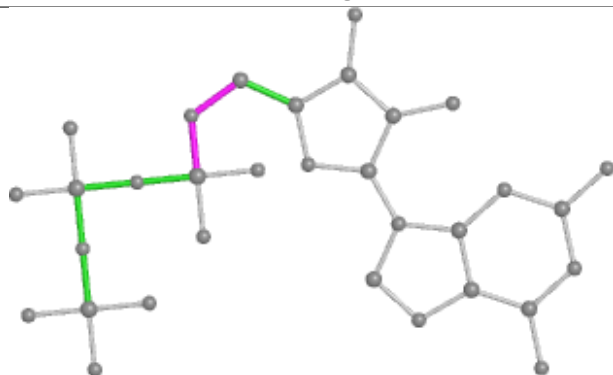
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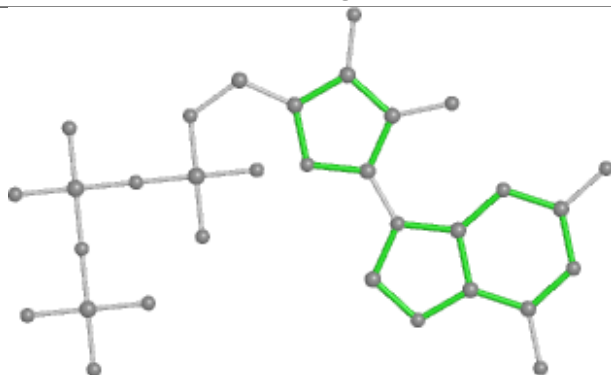
Bond lengths



Bond angles

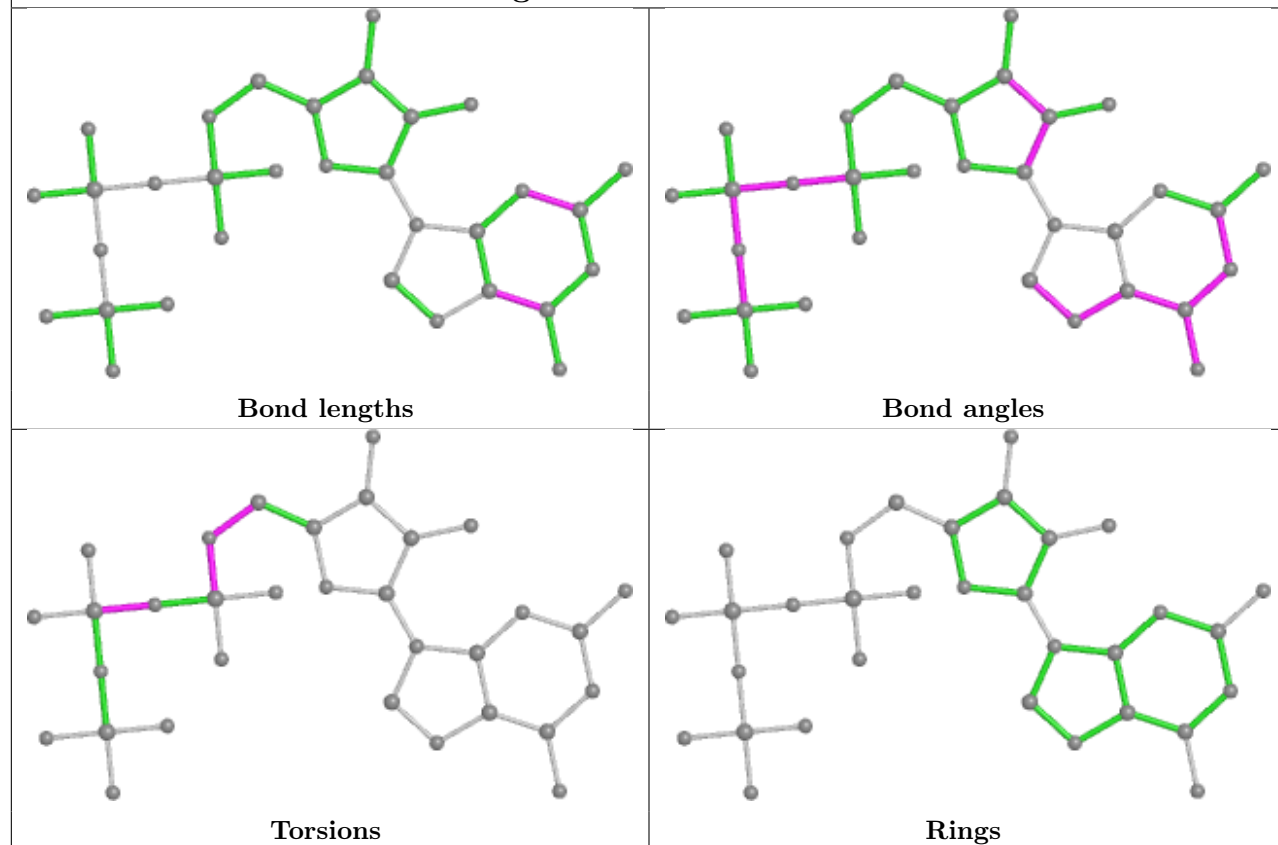


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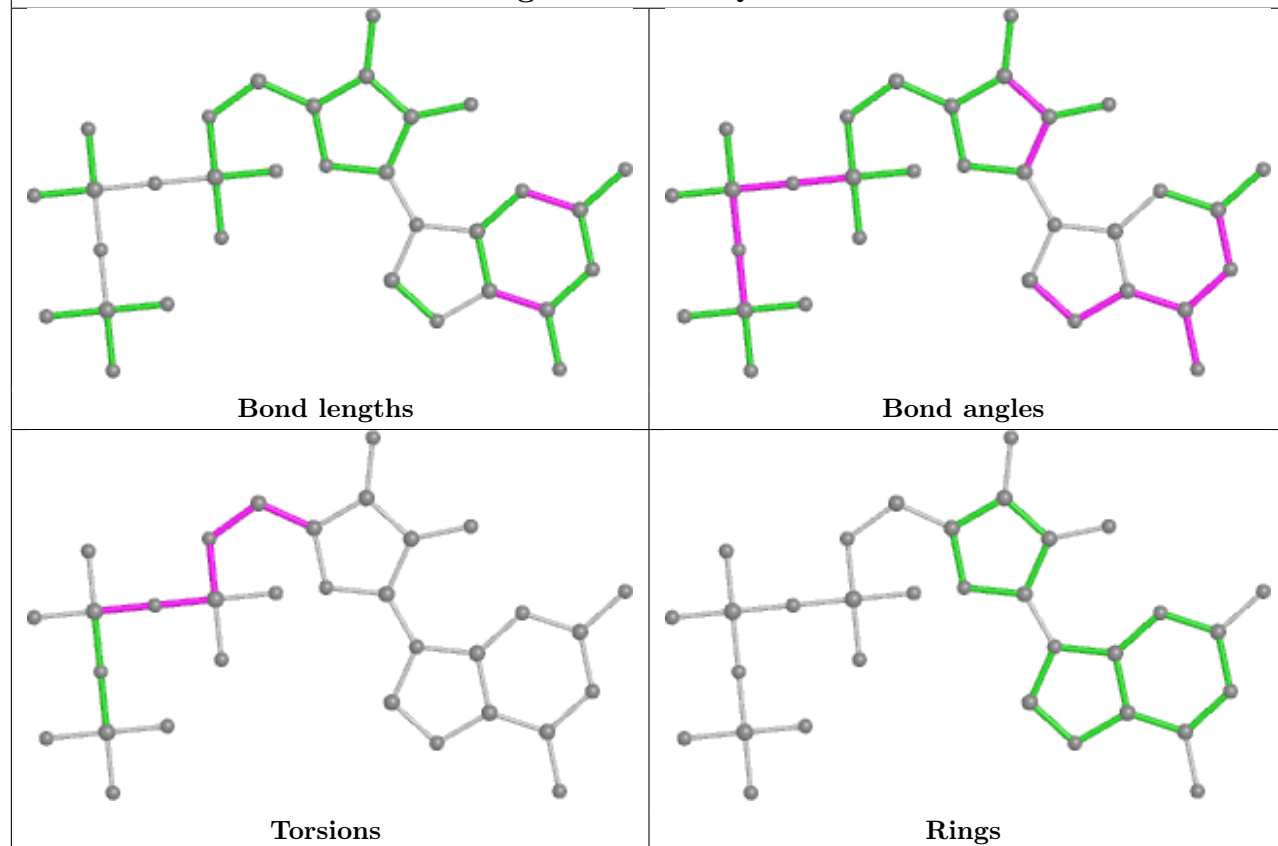


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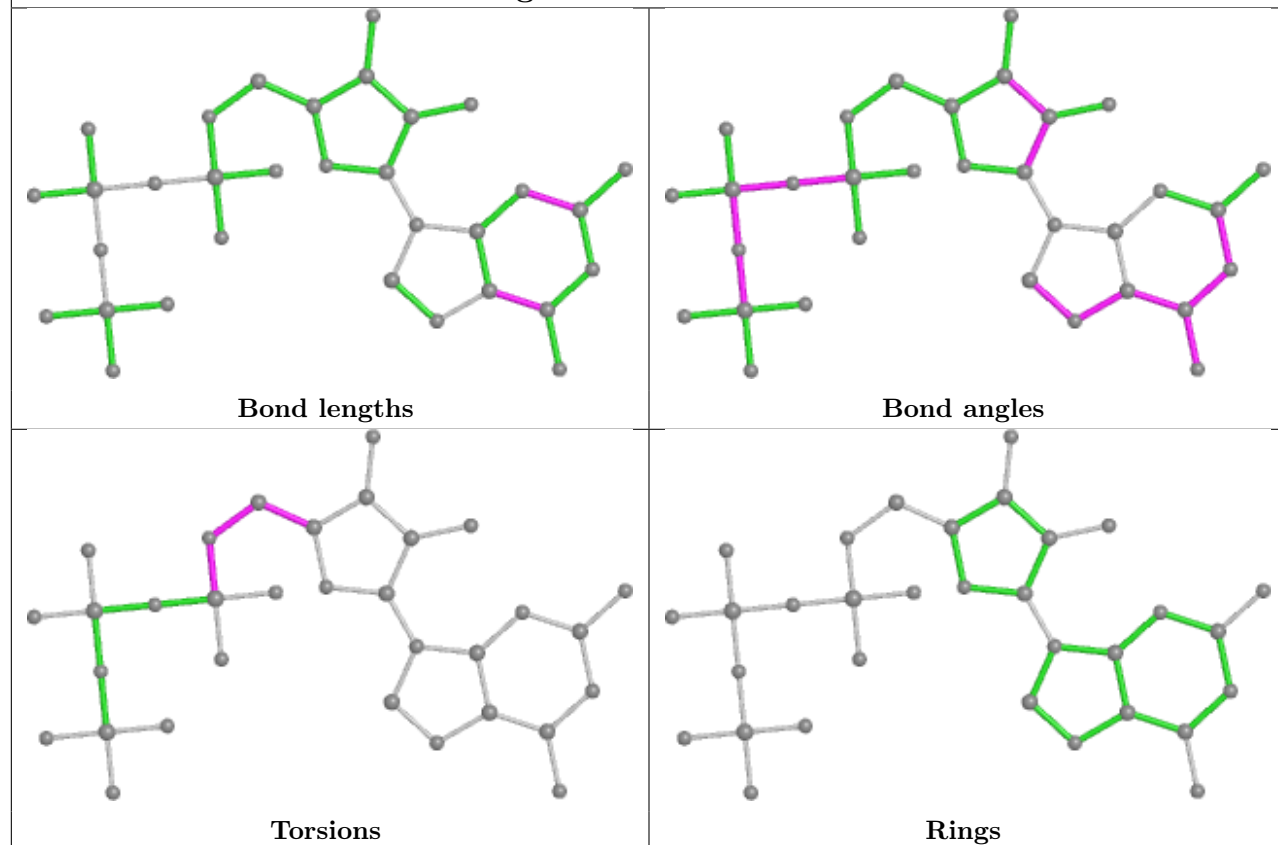
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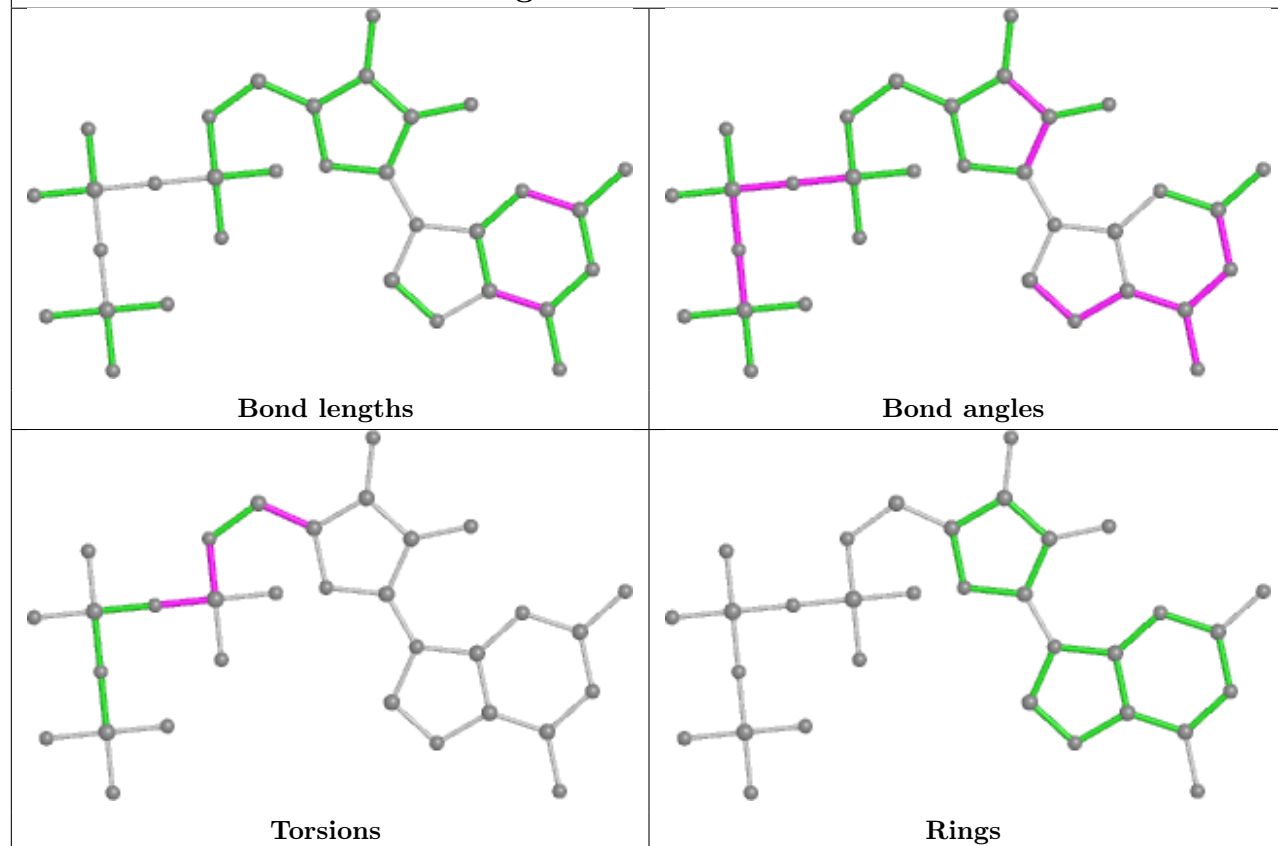
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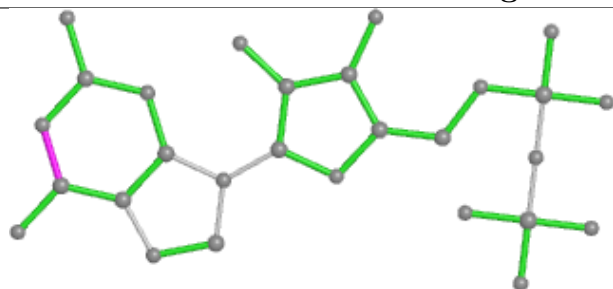
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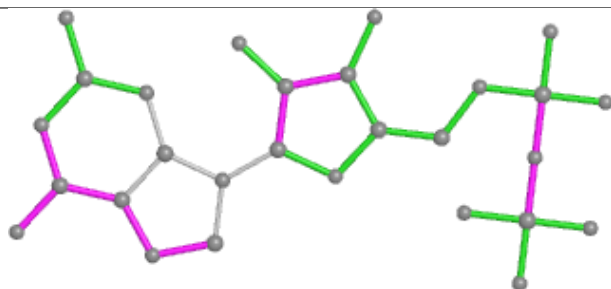
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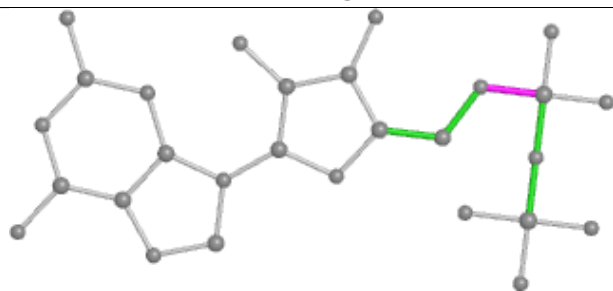
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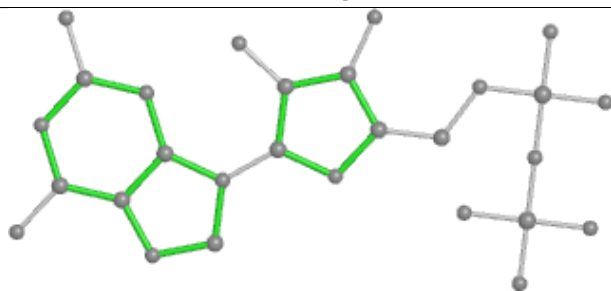
Bond lengths



Bond angles

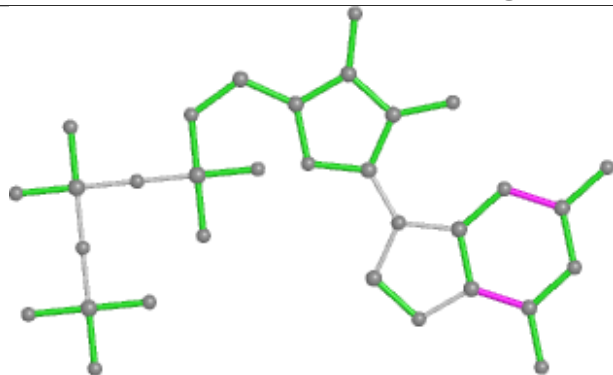


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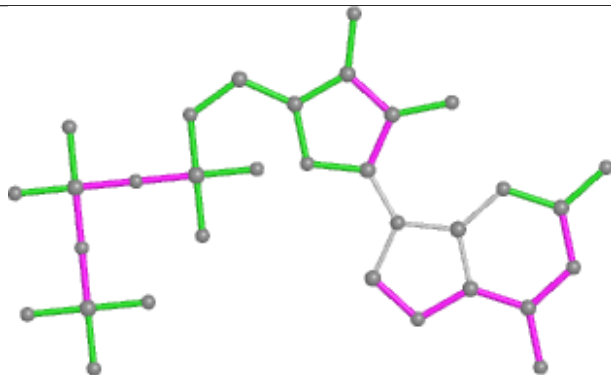


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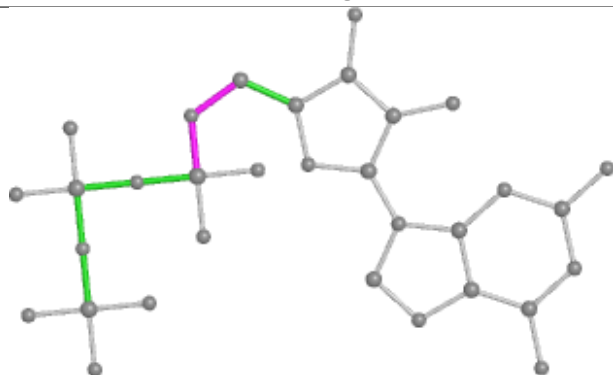
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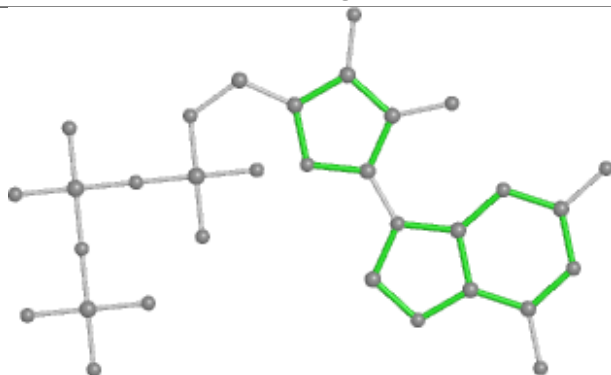
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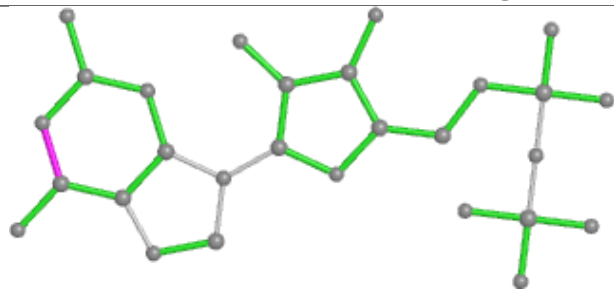


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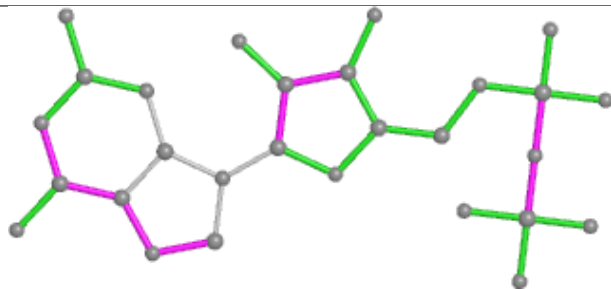


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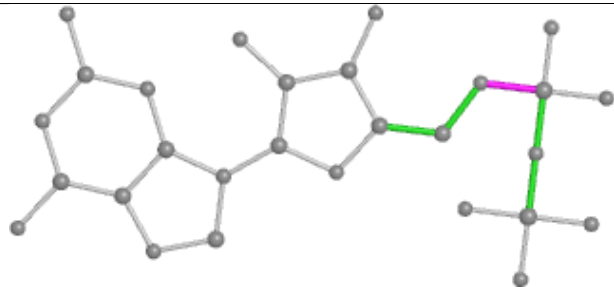
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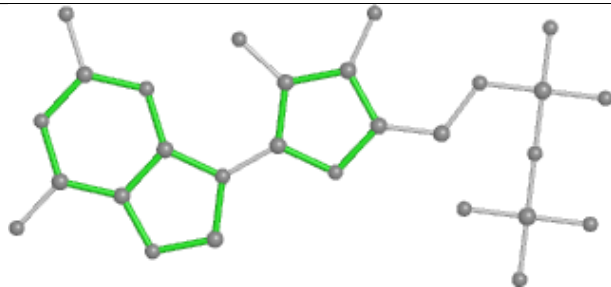
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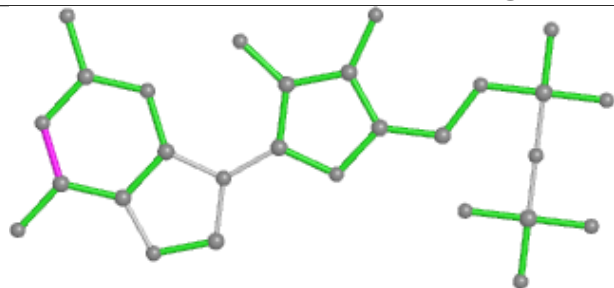


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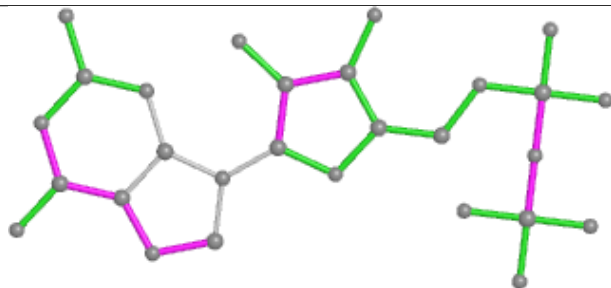


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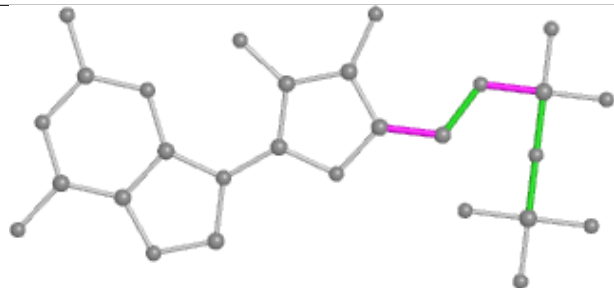
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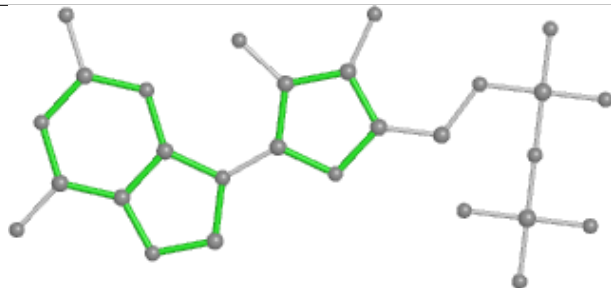
Bond lengths



Bond angles

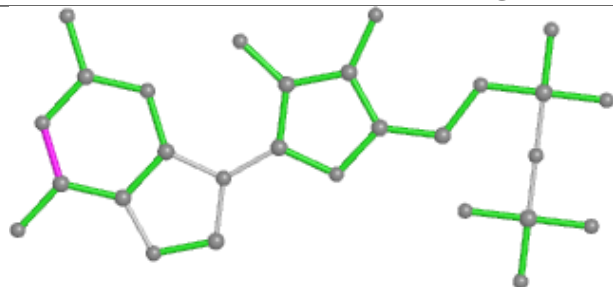


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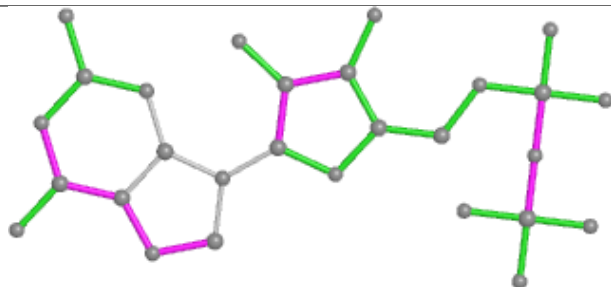


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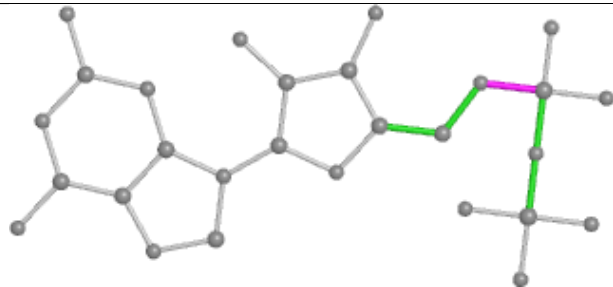
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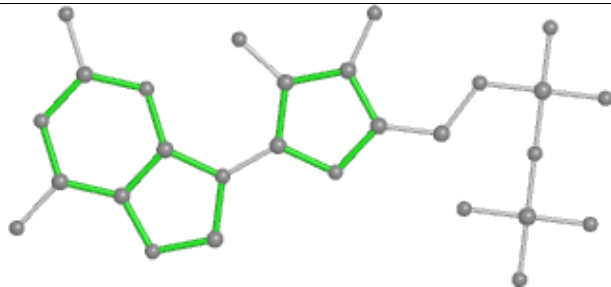
Bond lengths



Bond angles

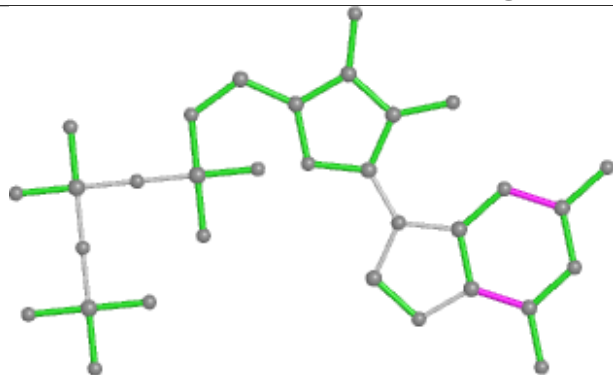


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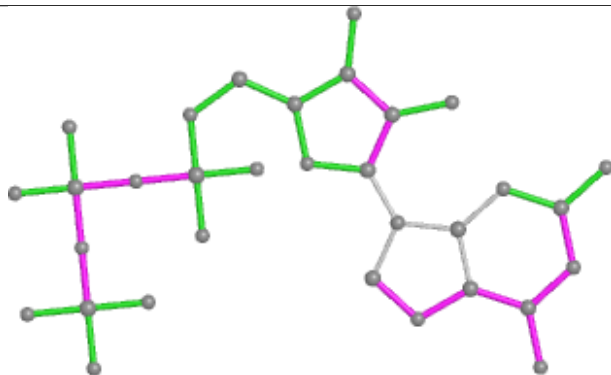


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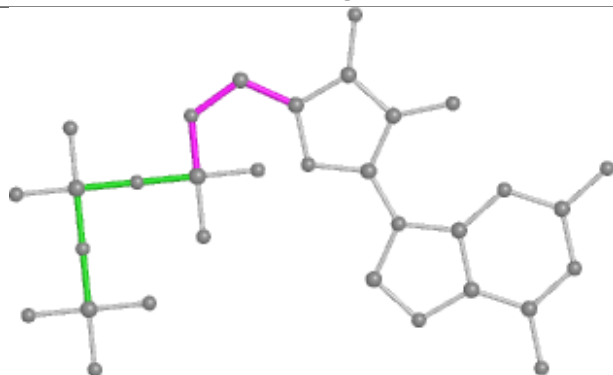
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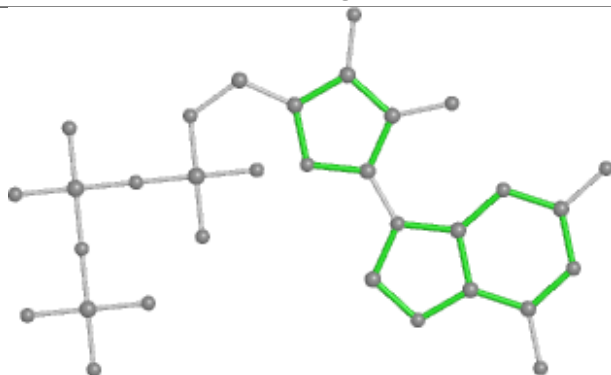
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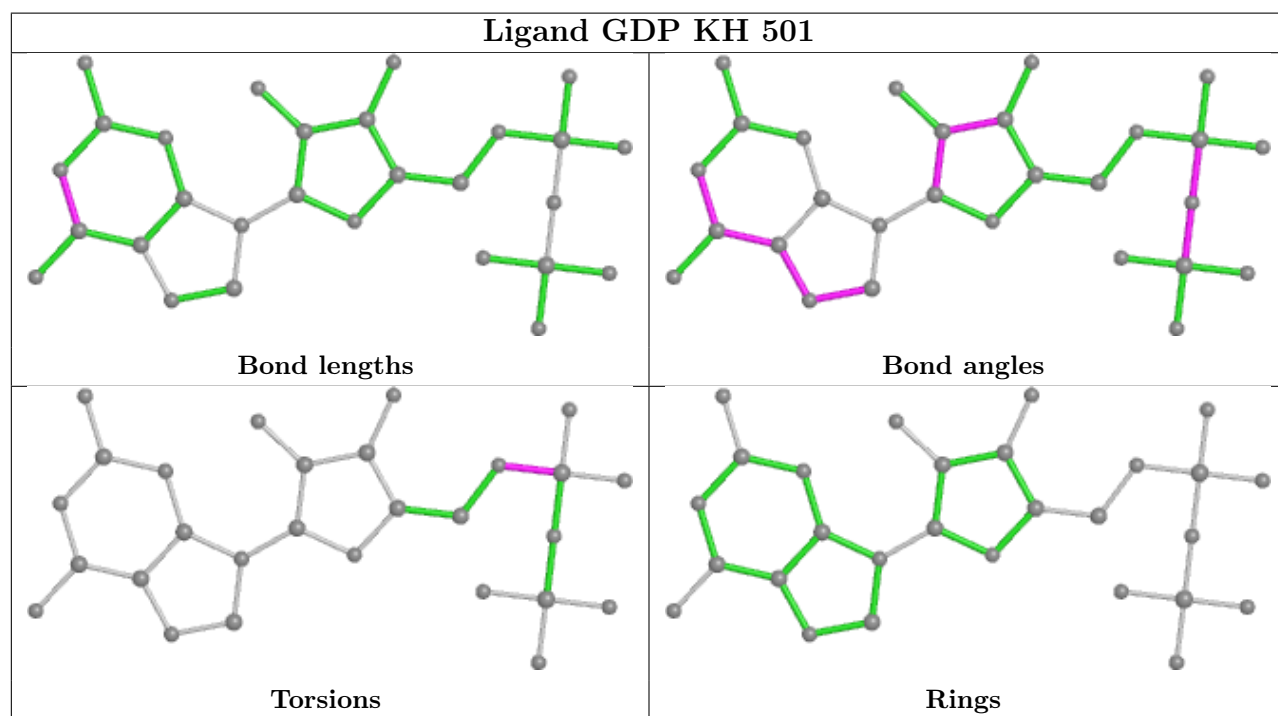
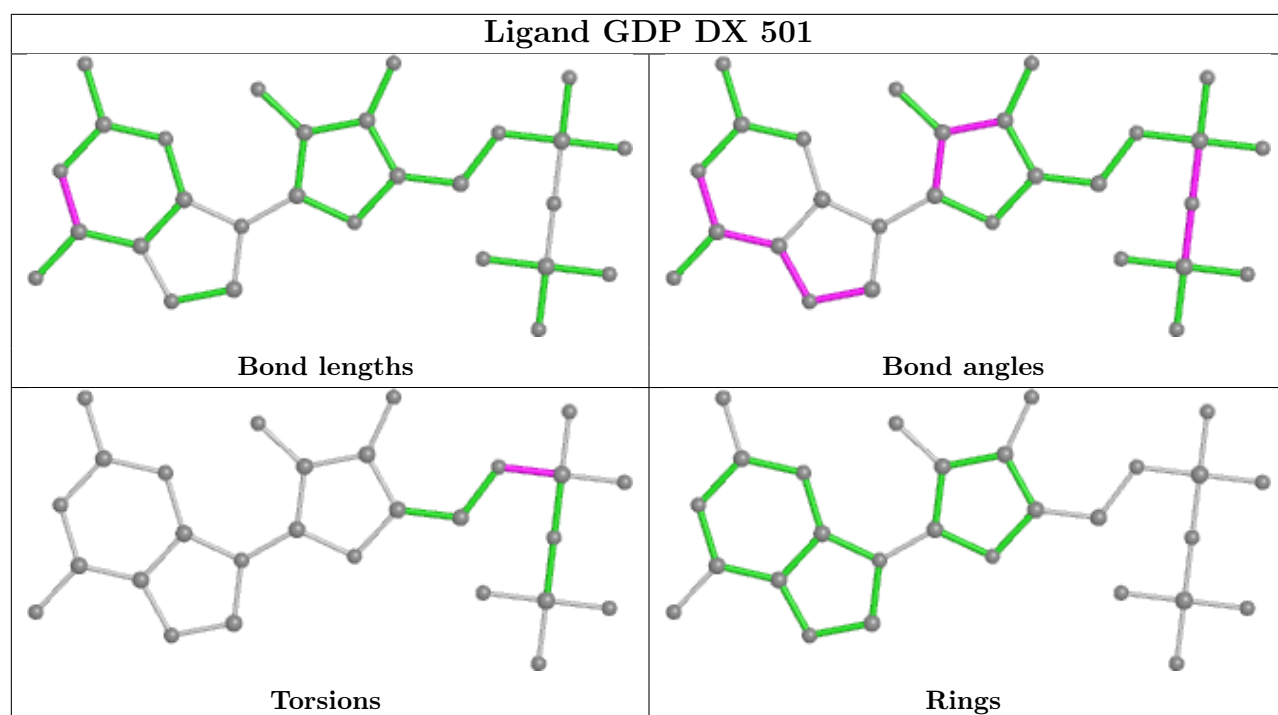
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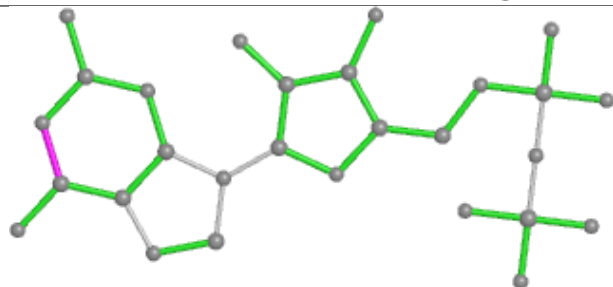
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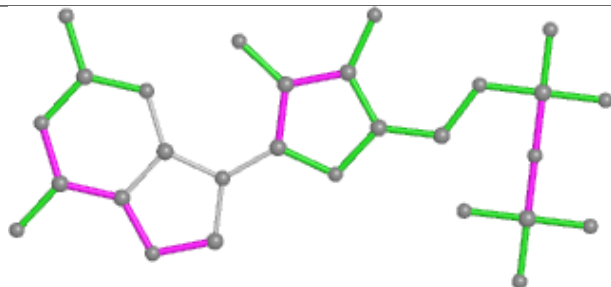
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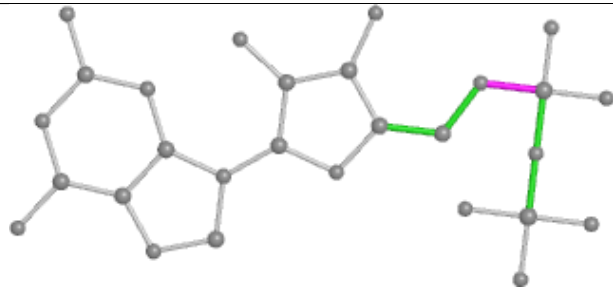
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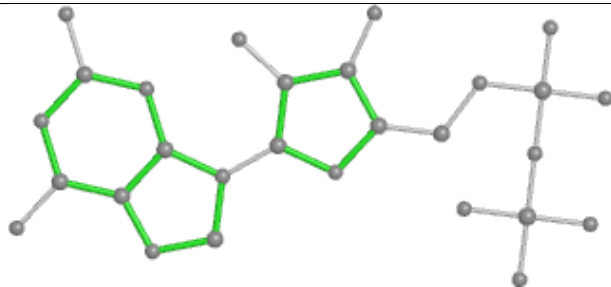
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Bond angles

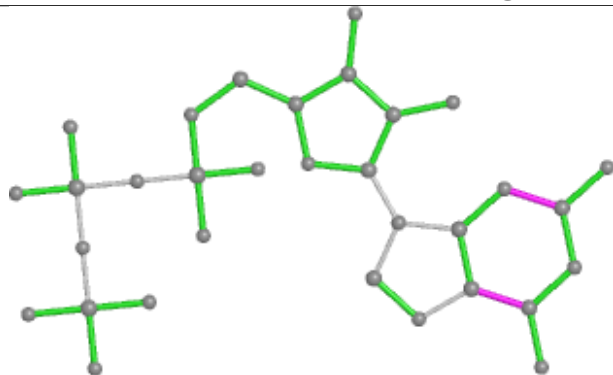


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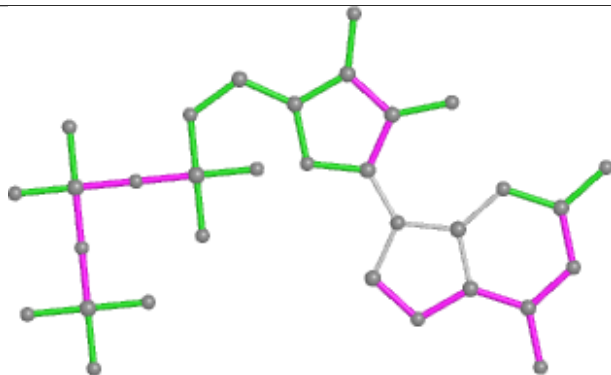


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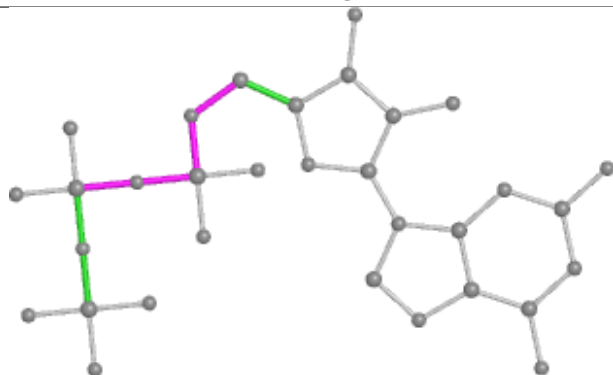
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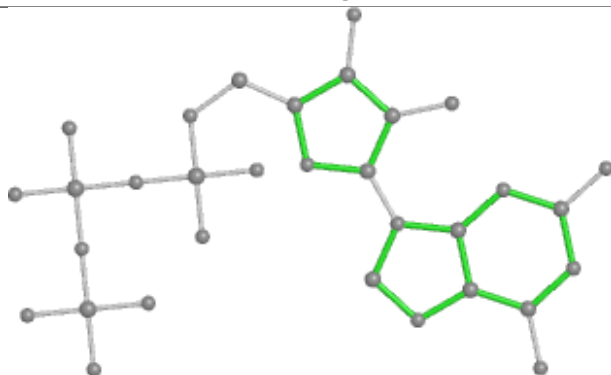
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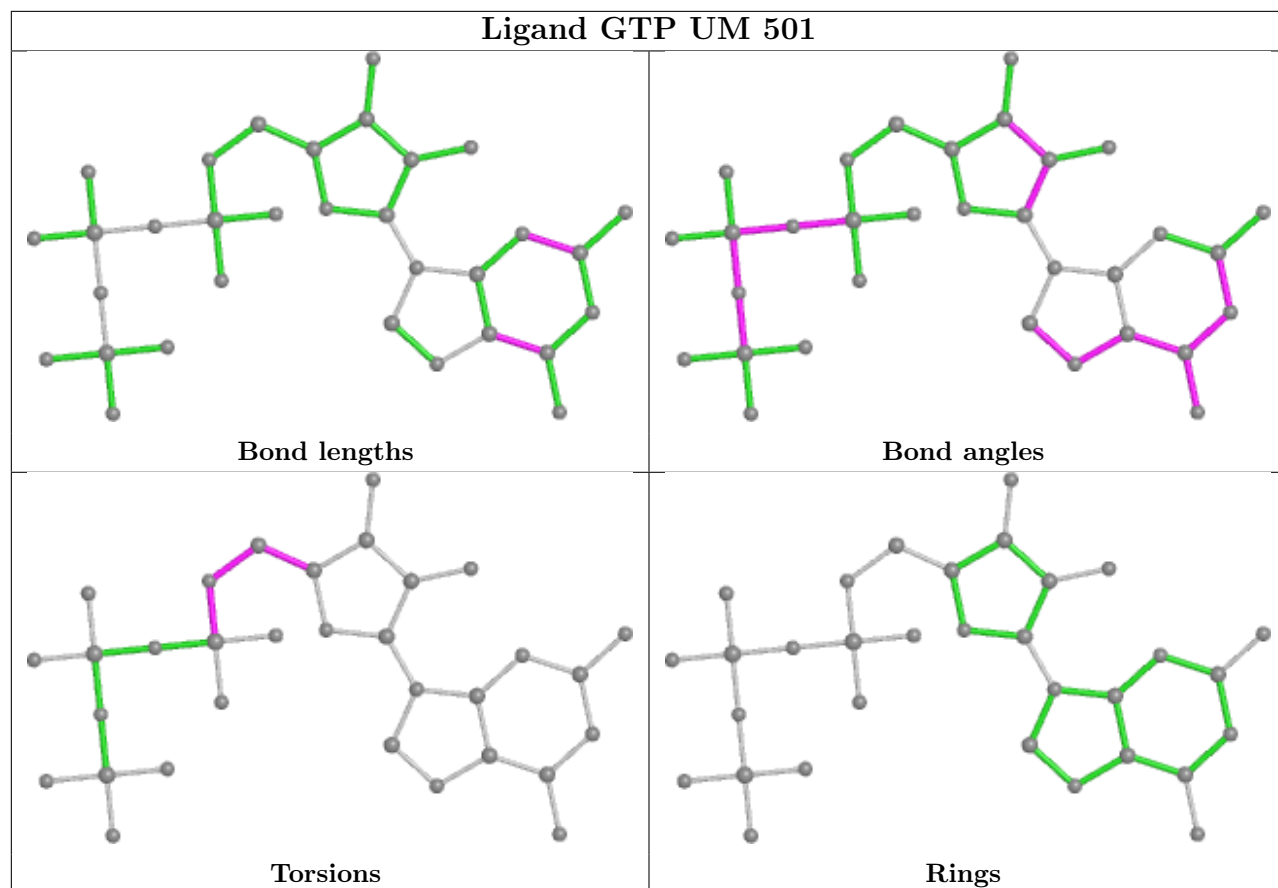


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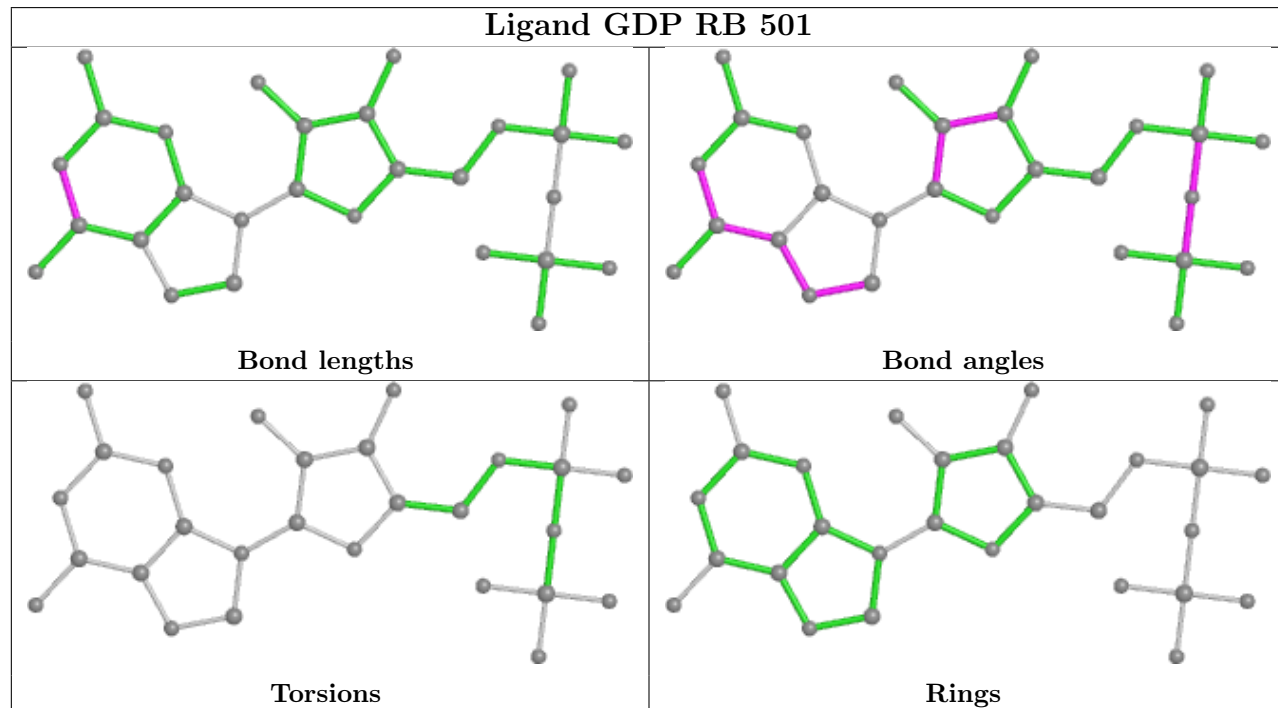


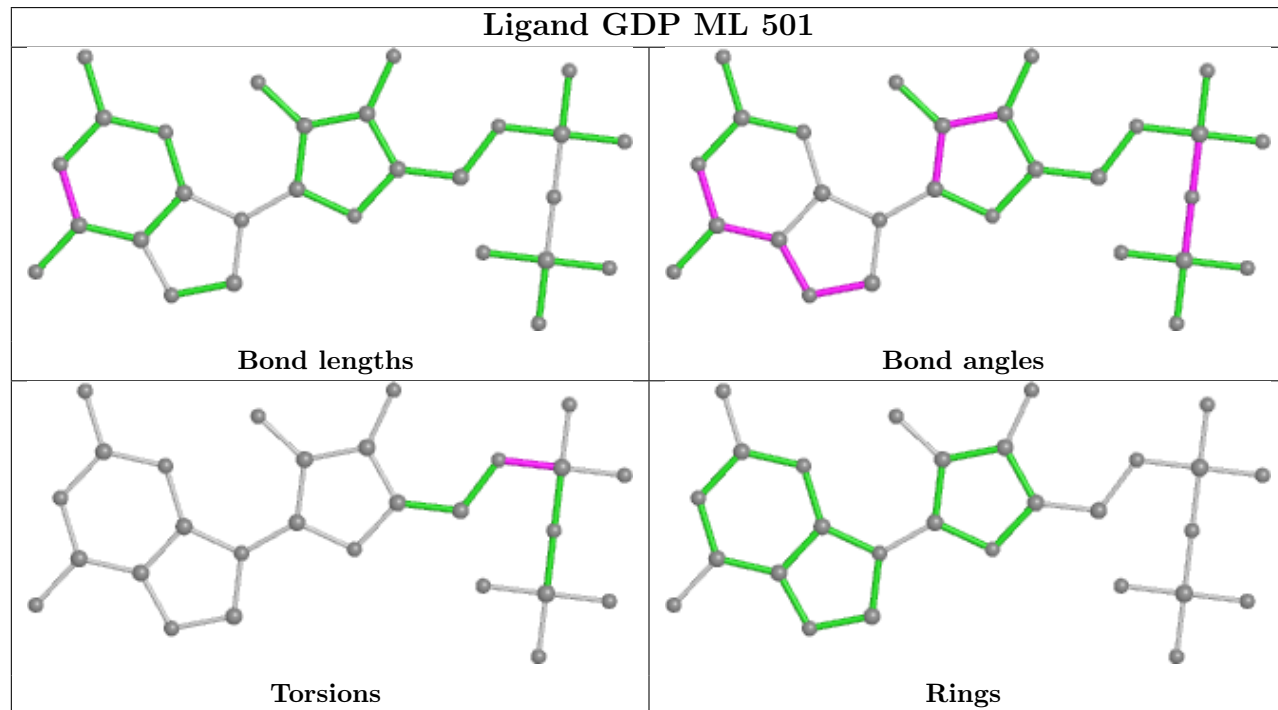
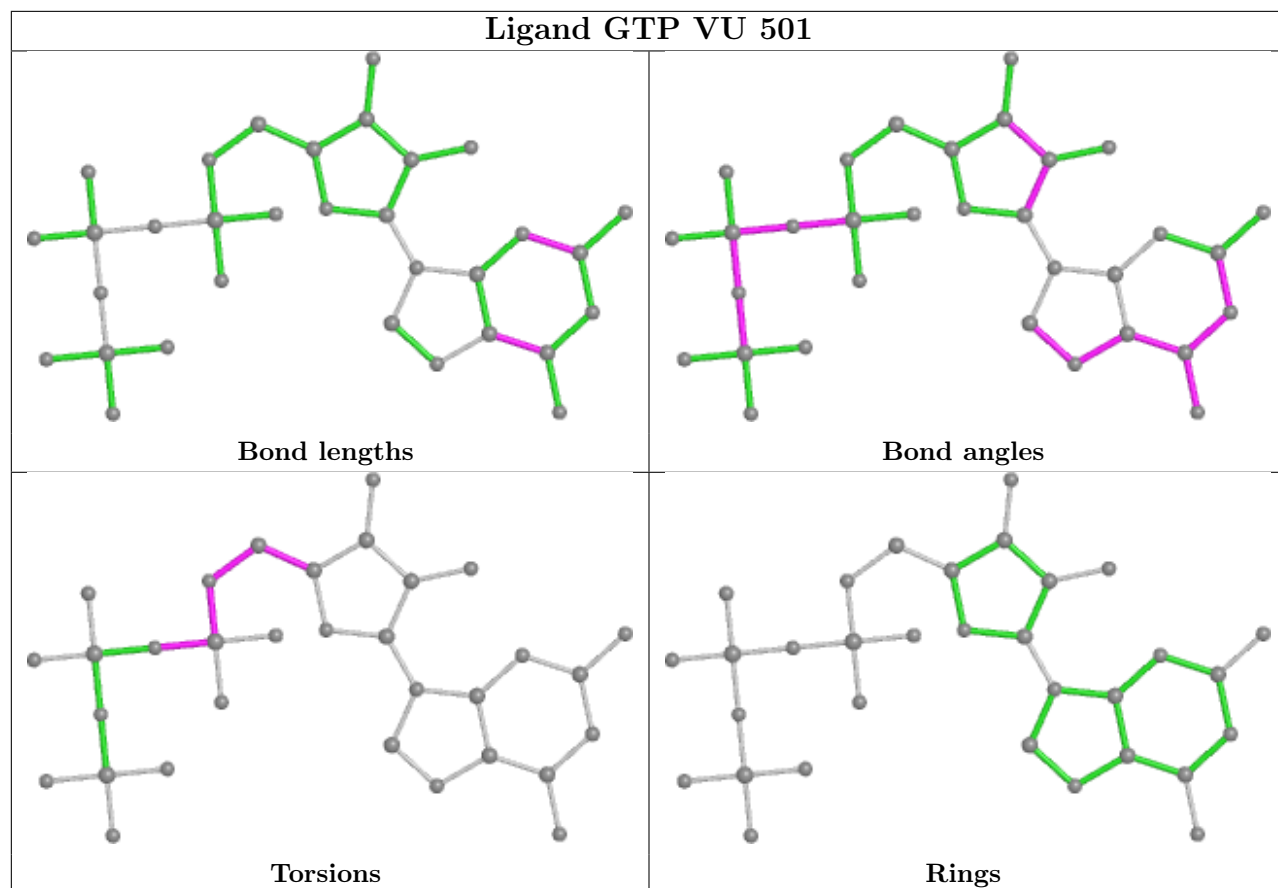
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Ligand GTP UM 501

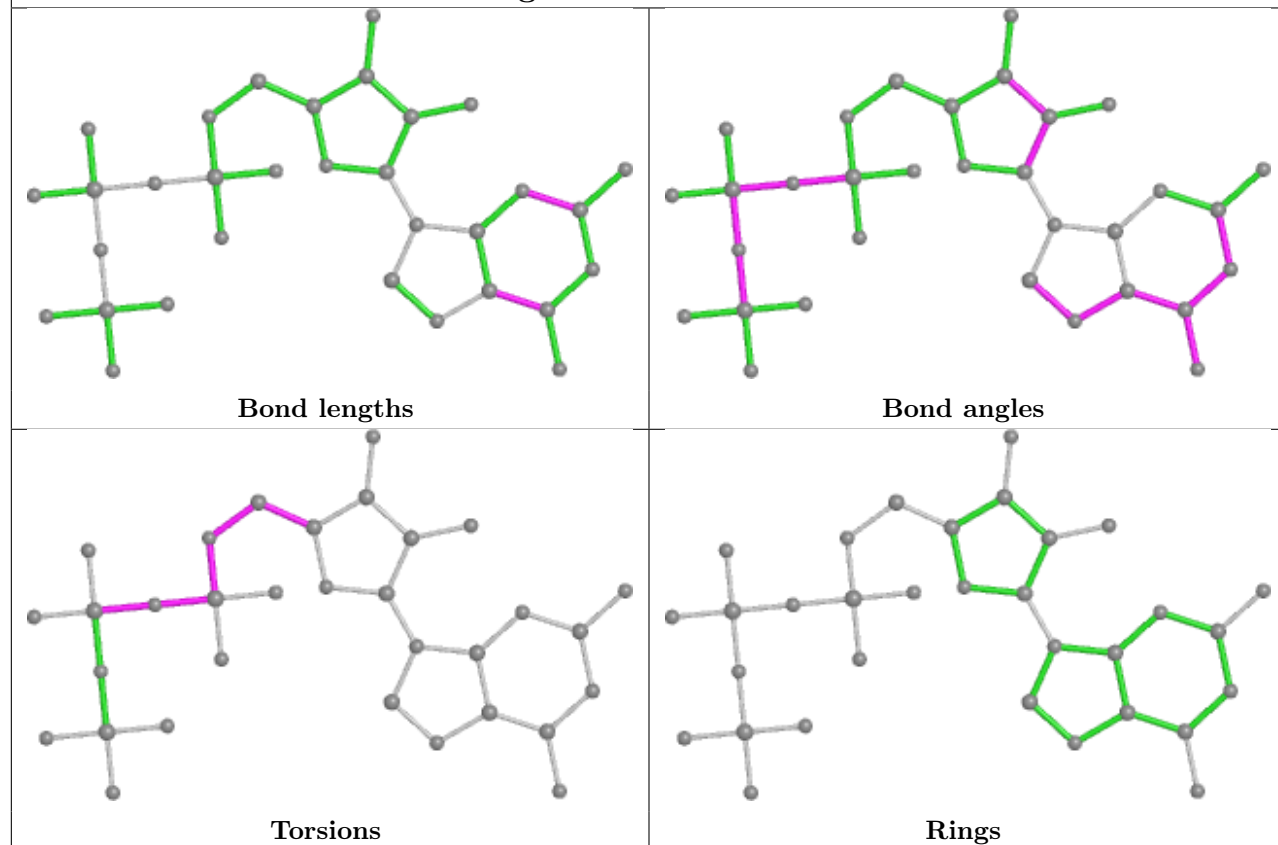


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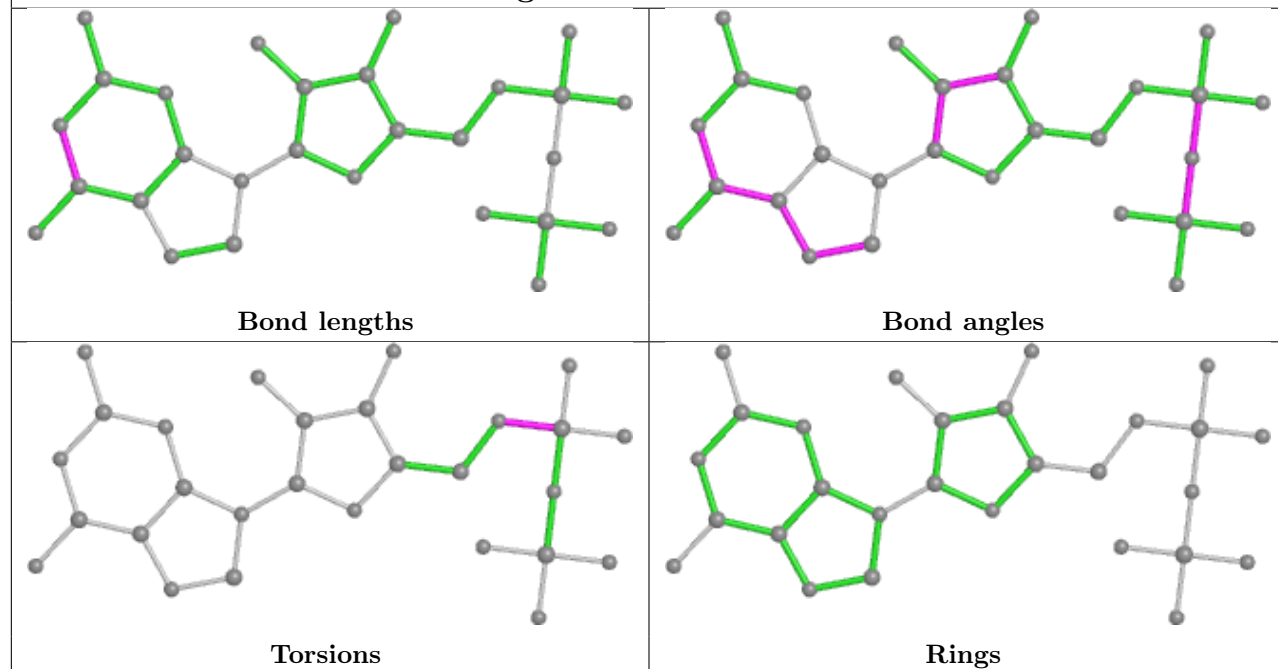




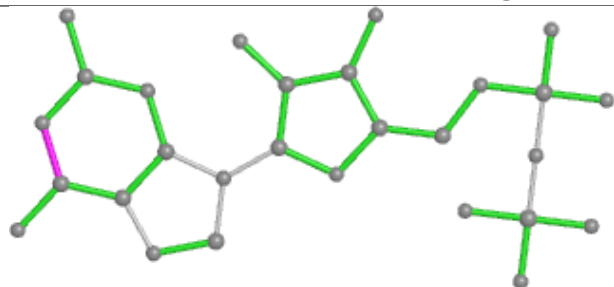
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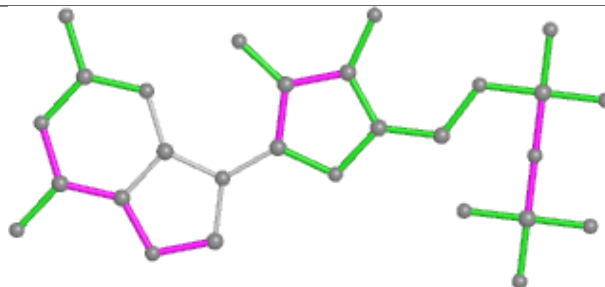
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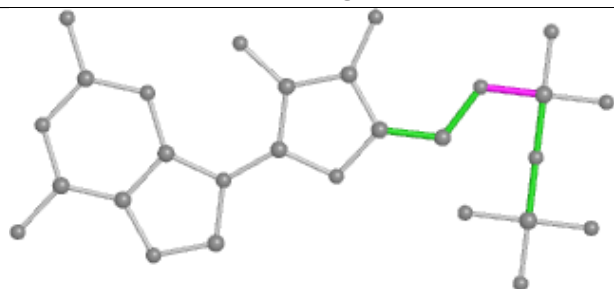
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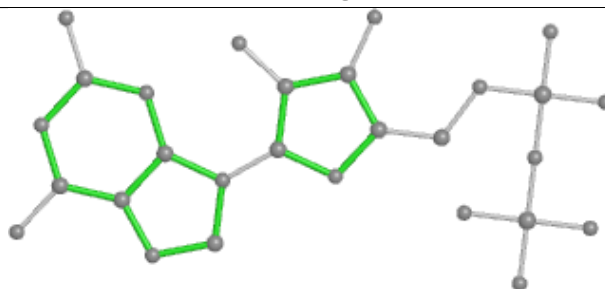
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Bond angles

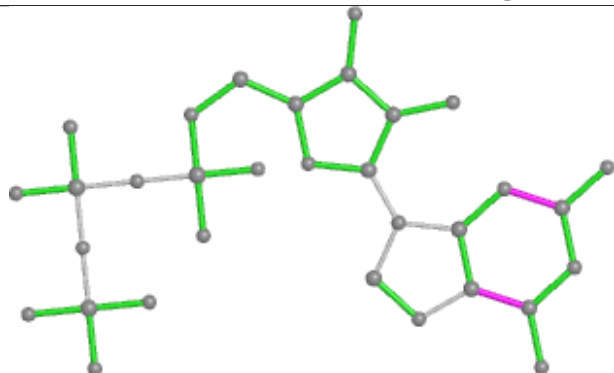


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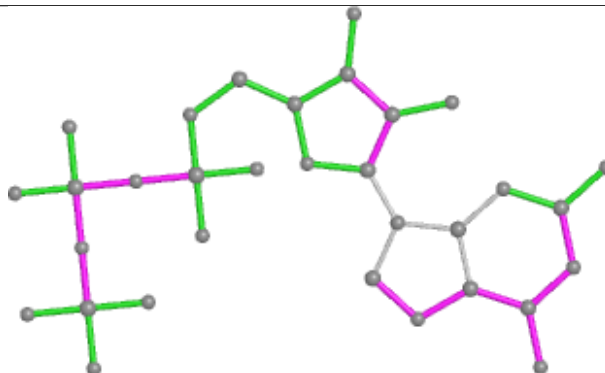


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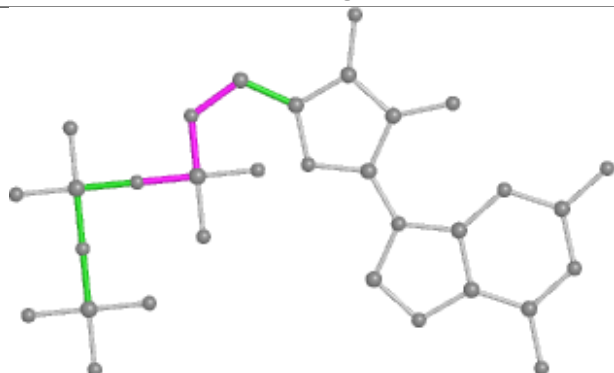
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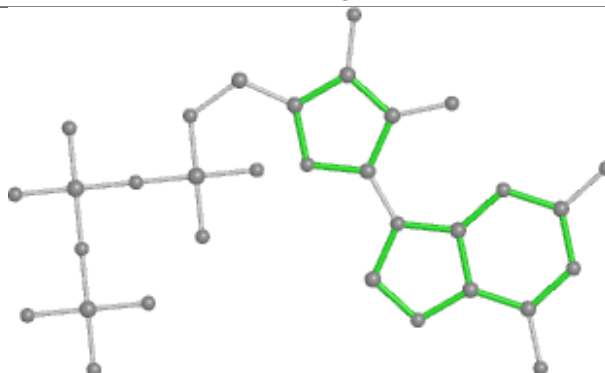
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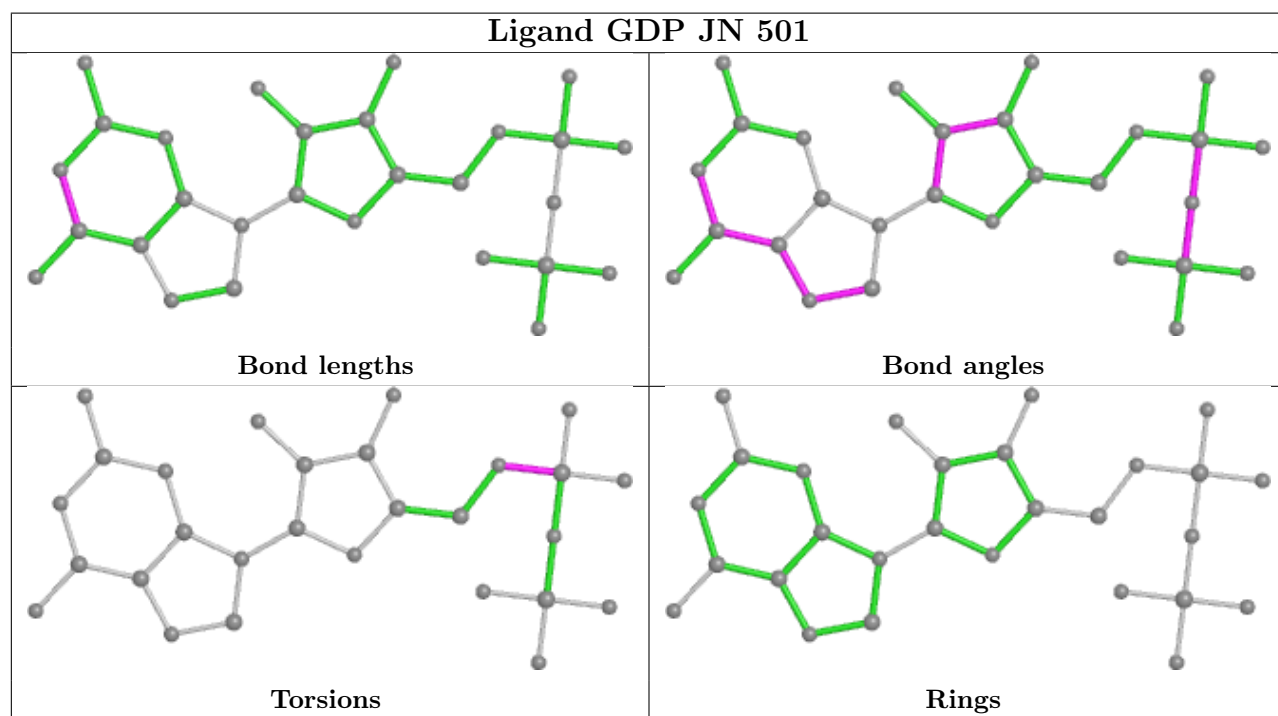
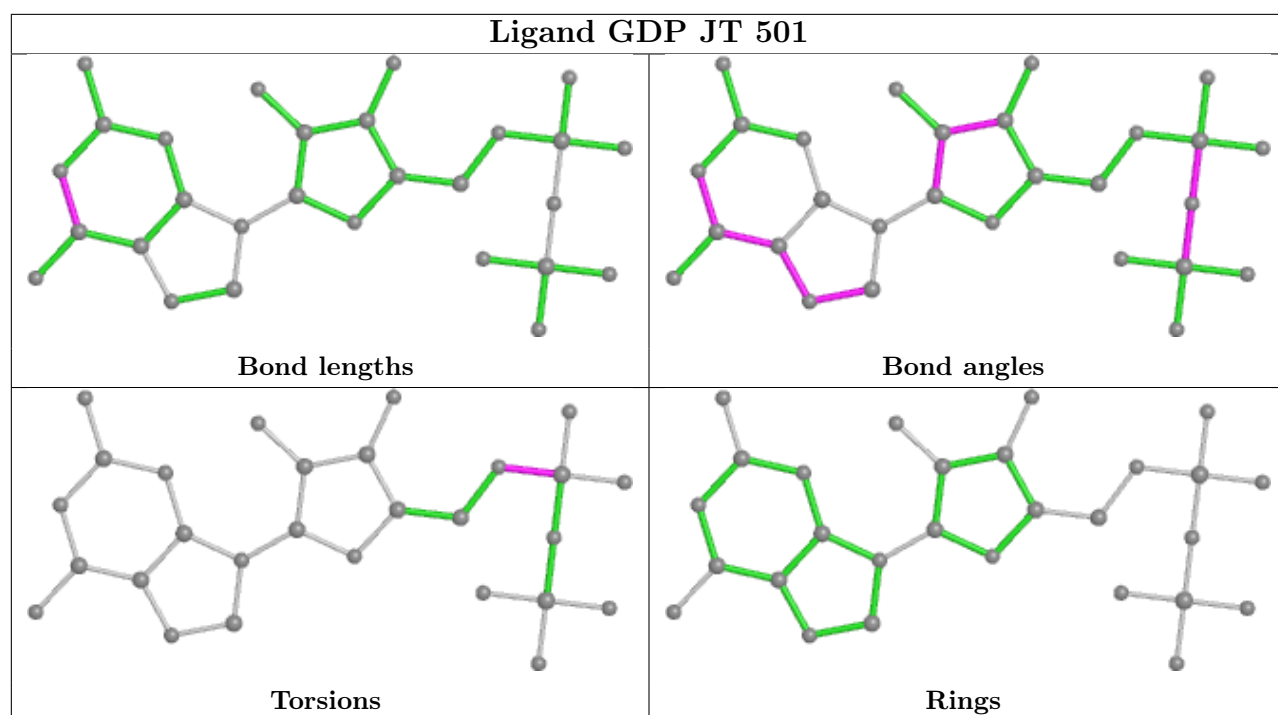
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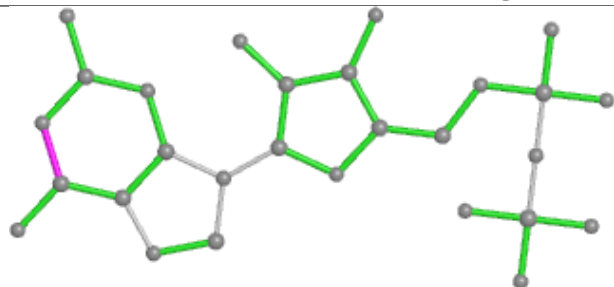
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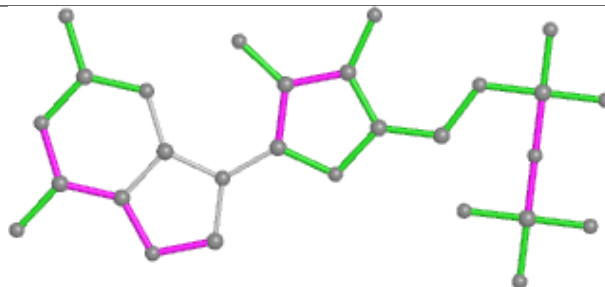
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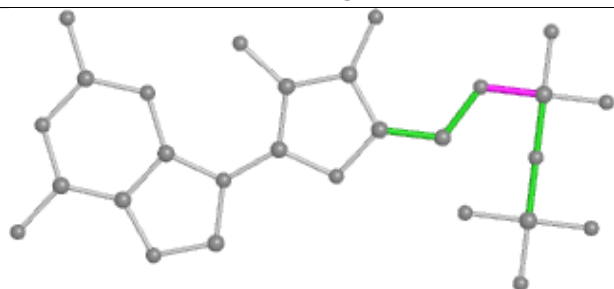
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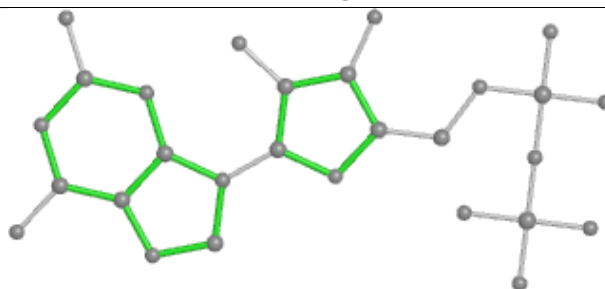
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Bond angles

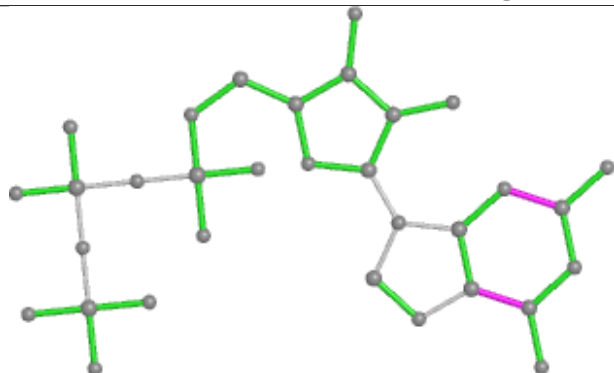


Torsions

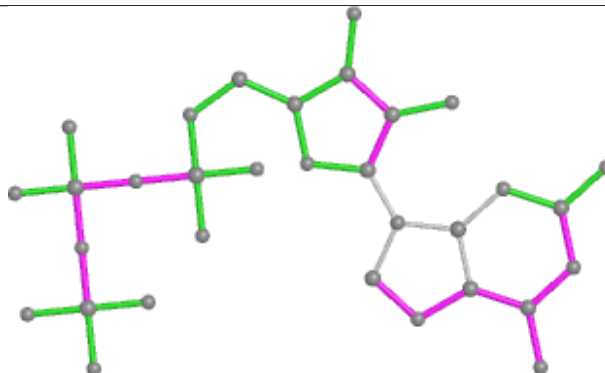


Rings

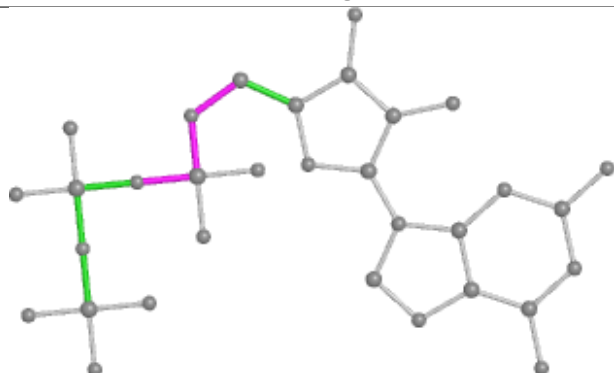
Ligand GTP AK 501



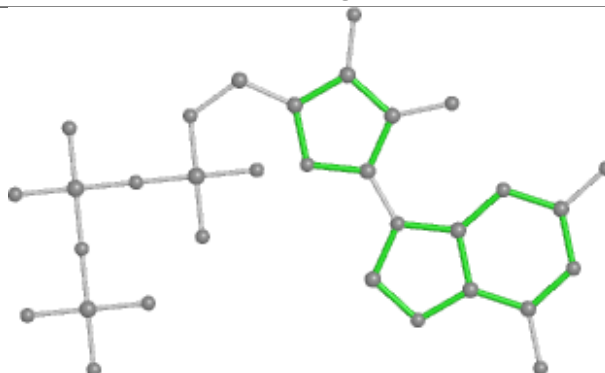
Bond lengths



Bond angles

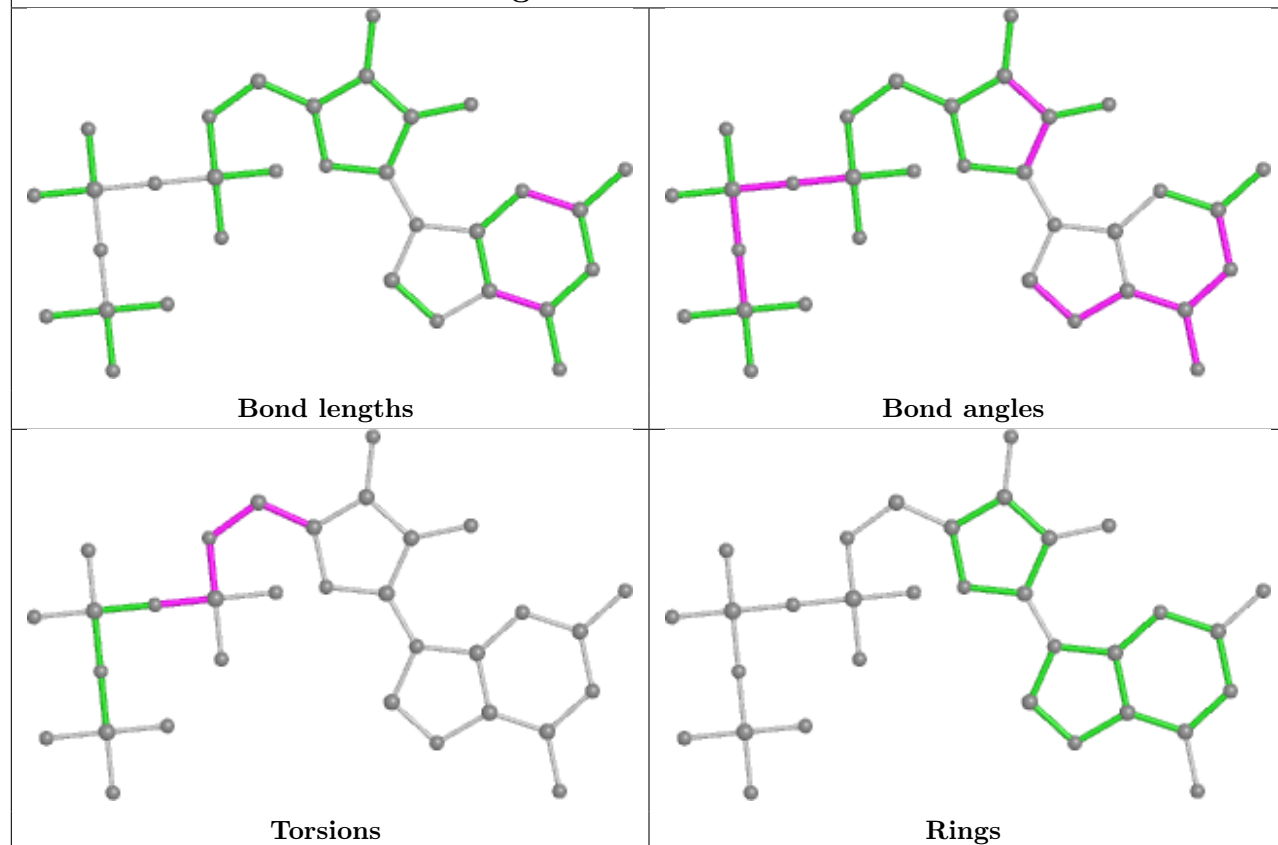


Torsions

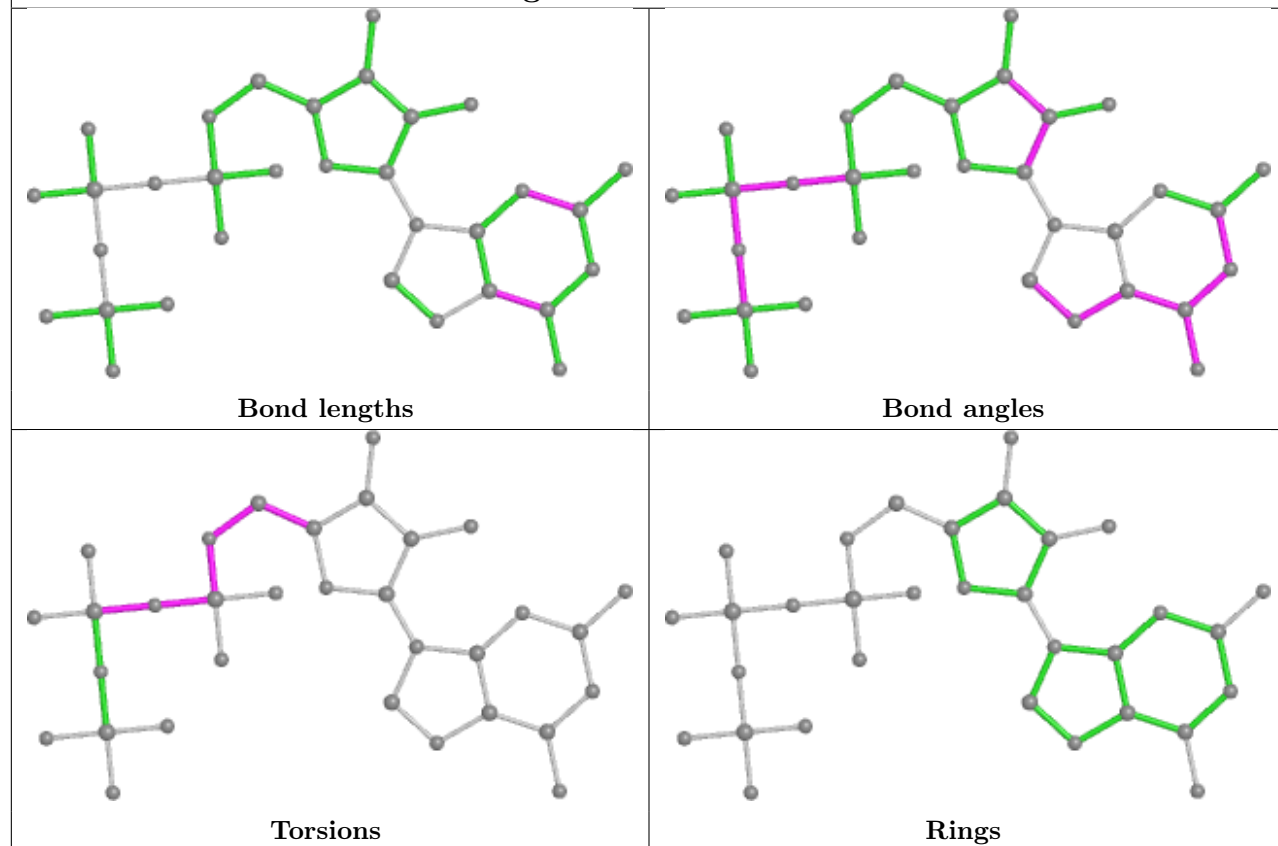


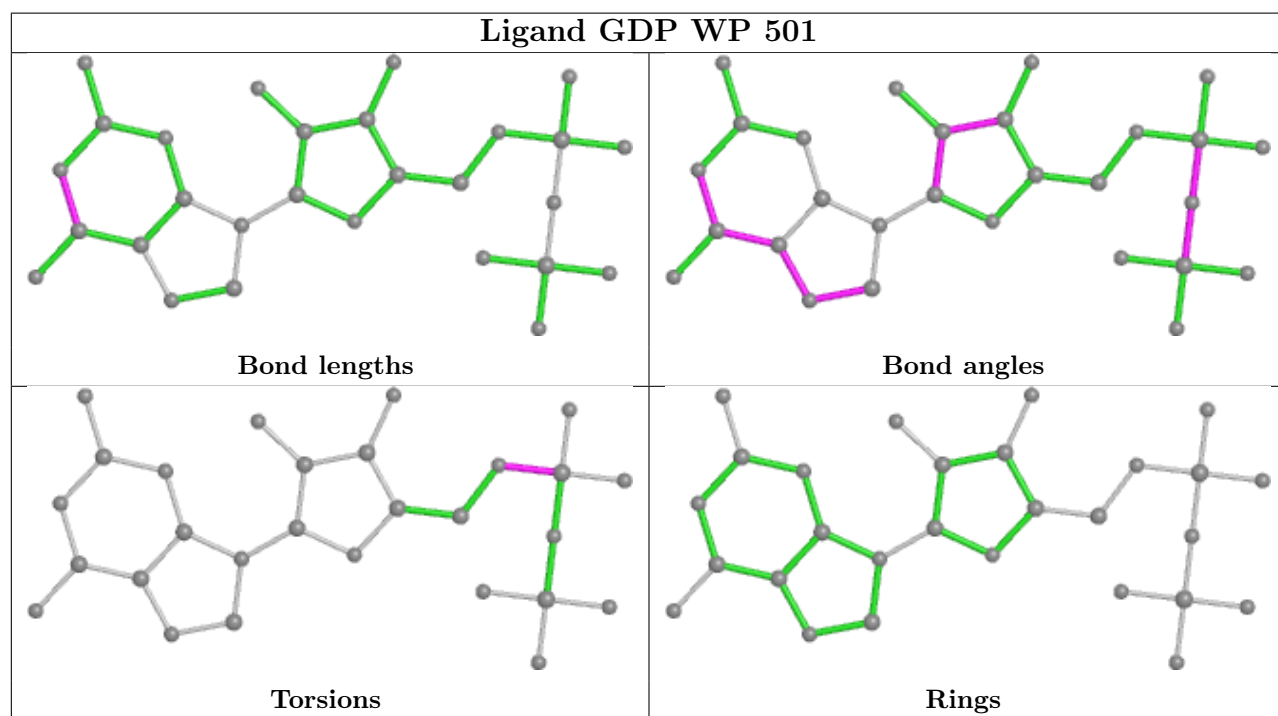
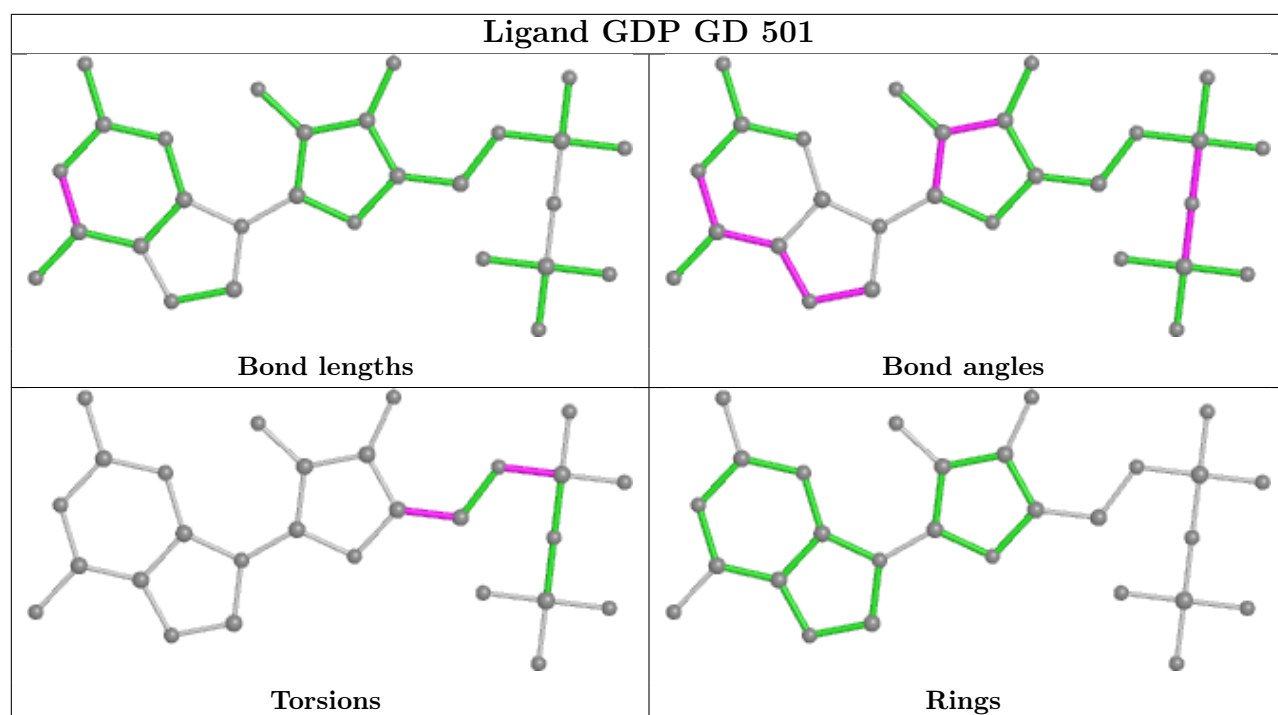
Rings

Ligand GTP BW 501

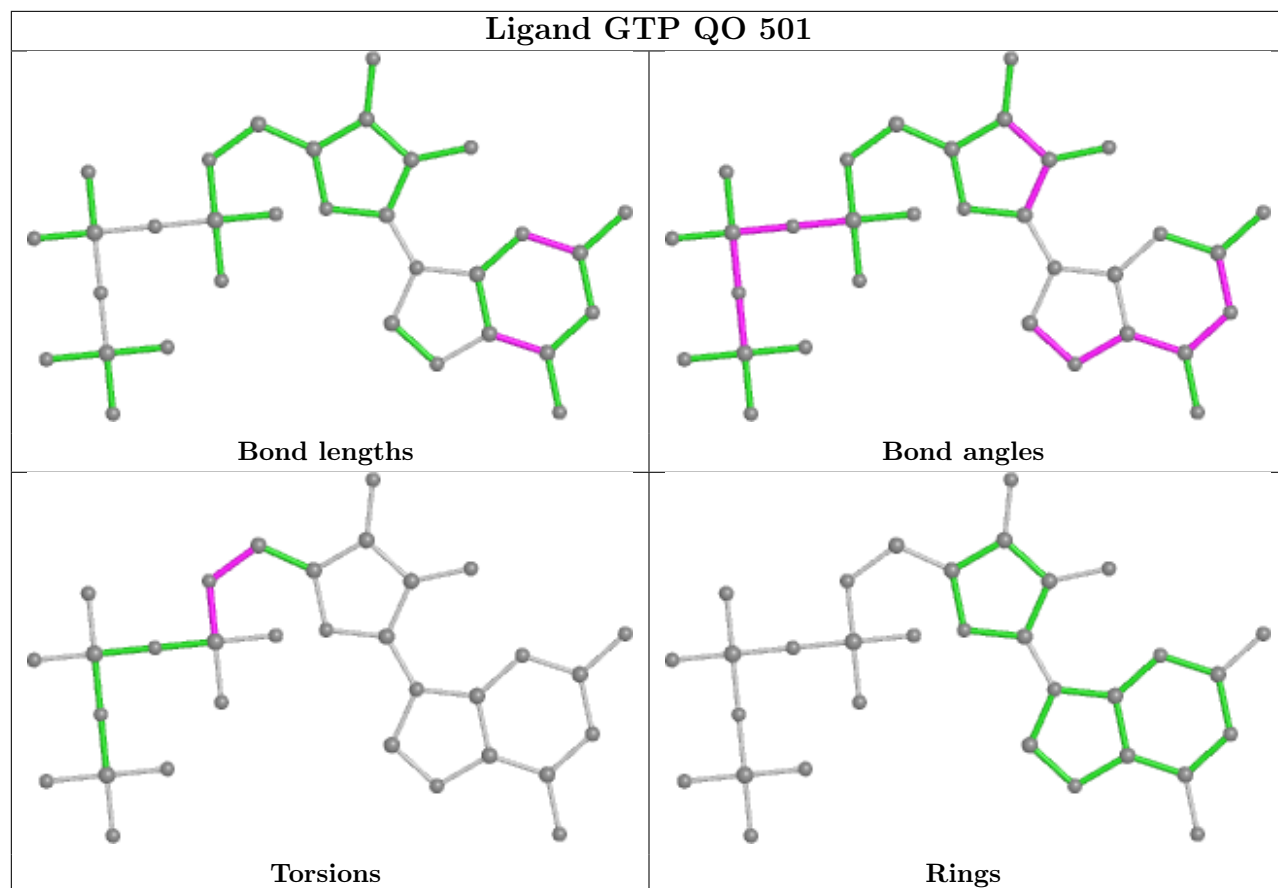


Ligand GTP HI 501

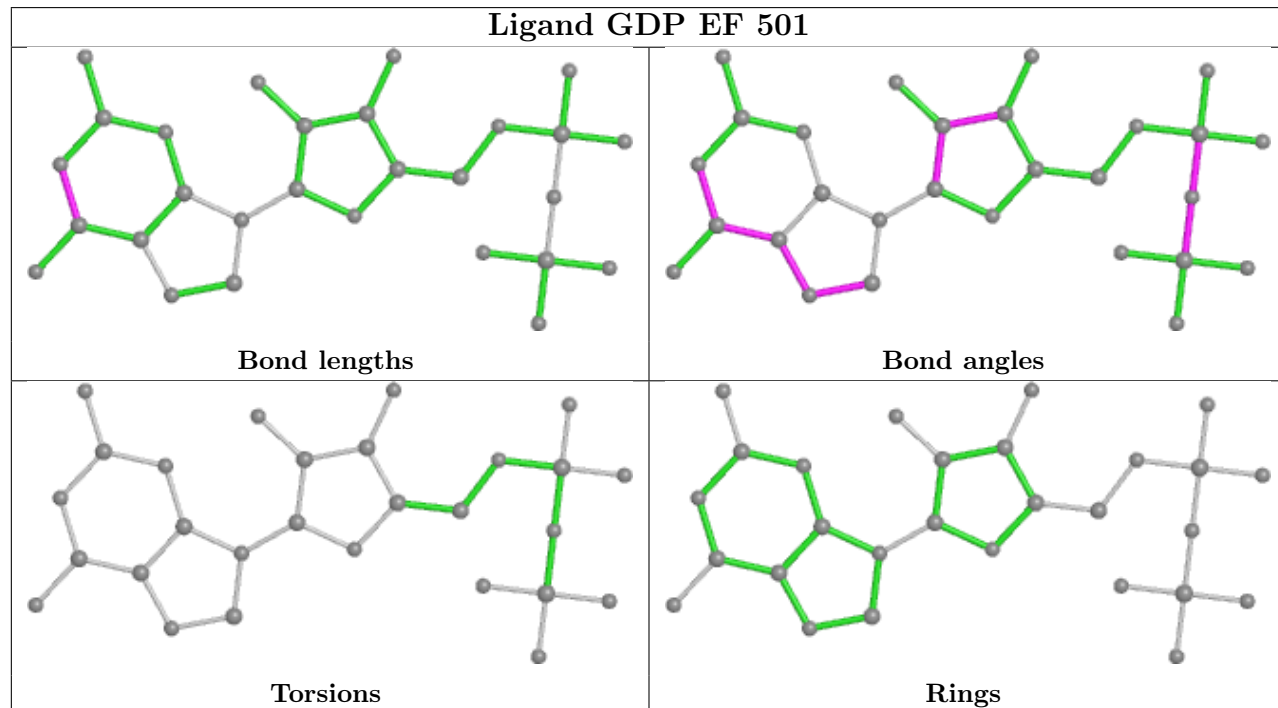


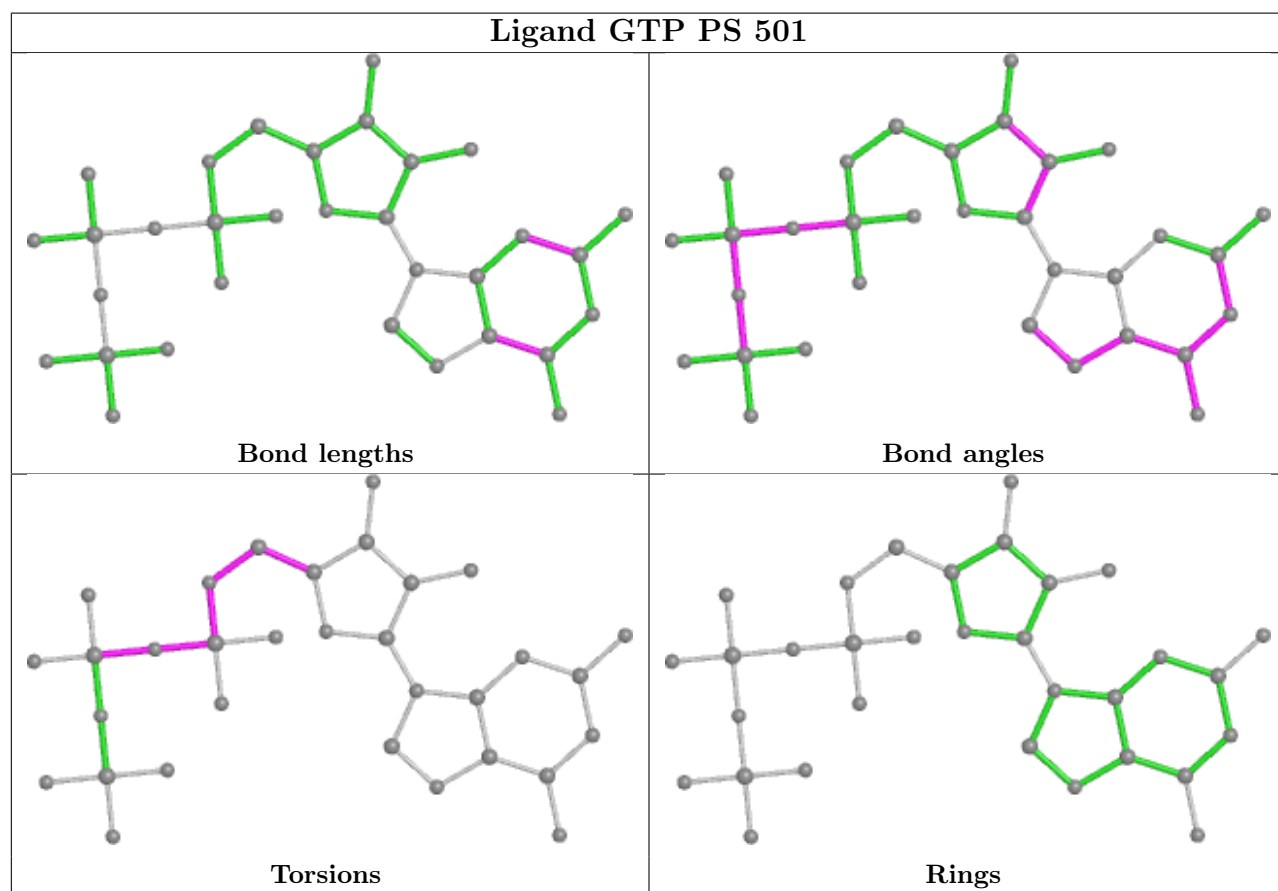
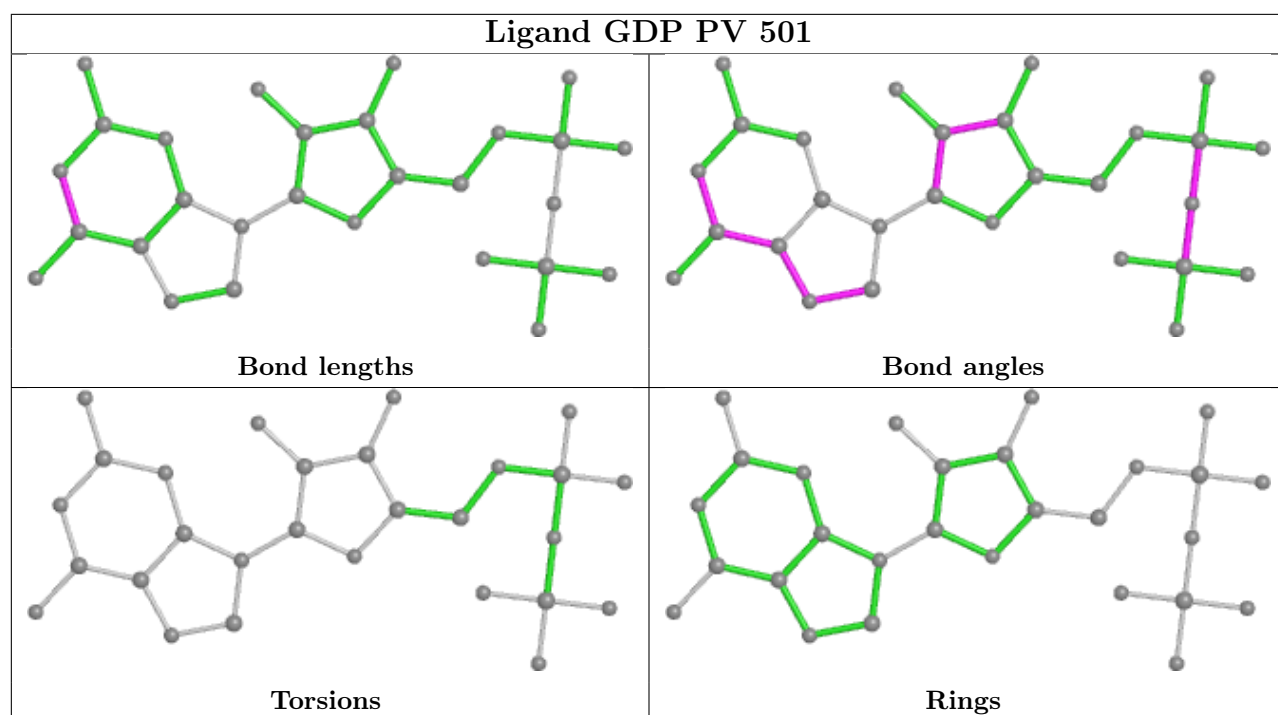


Ligand GTP QO 501

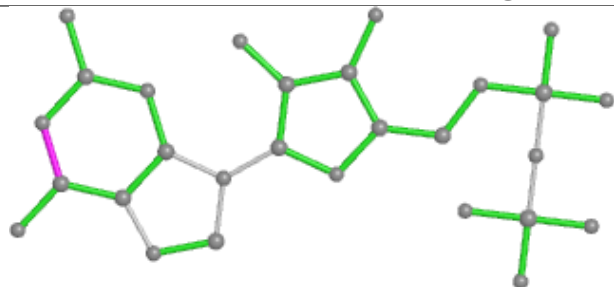


Ligand GDP EF 501

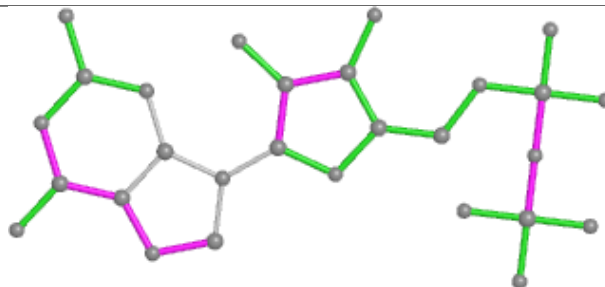




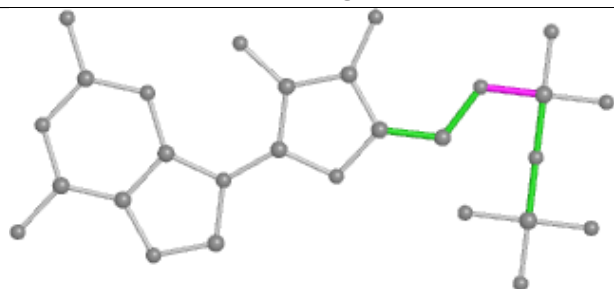
Ligand GDP DF 501



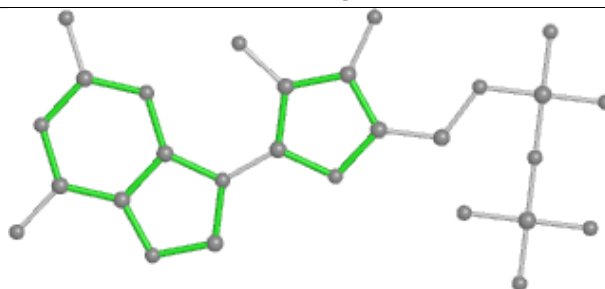
Bond lengths



Bond angles

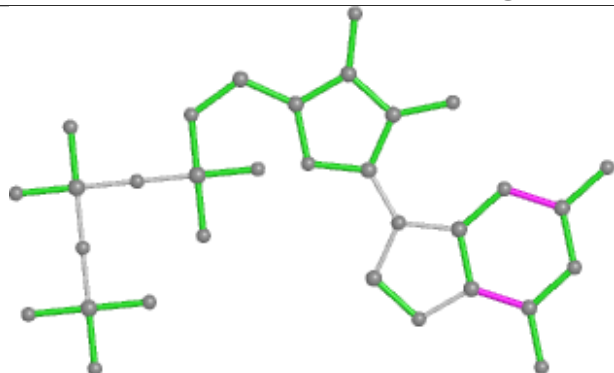


Torsions

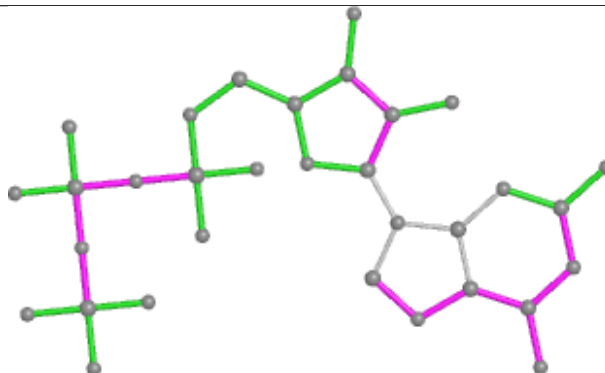


Rings

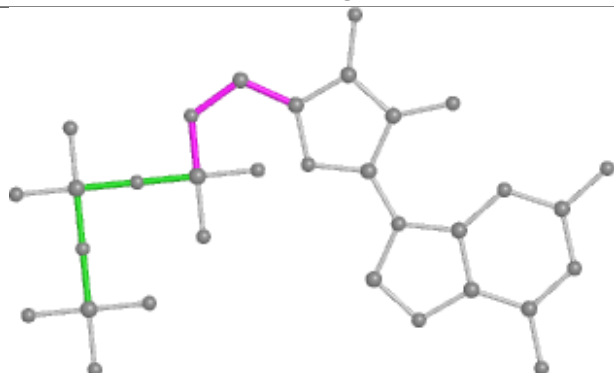
Ligand GTP BA 501



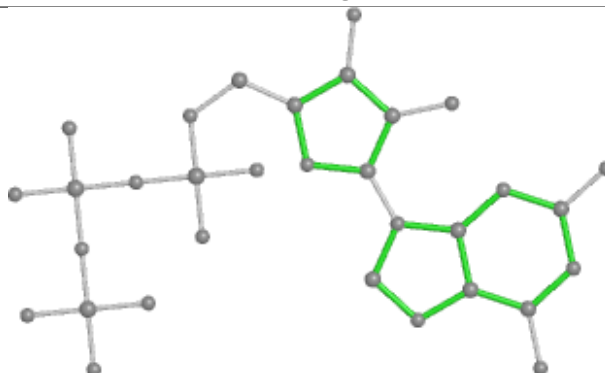
Bond lengths



Bond angles

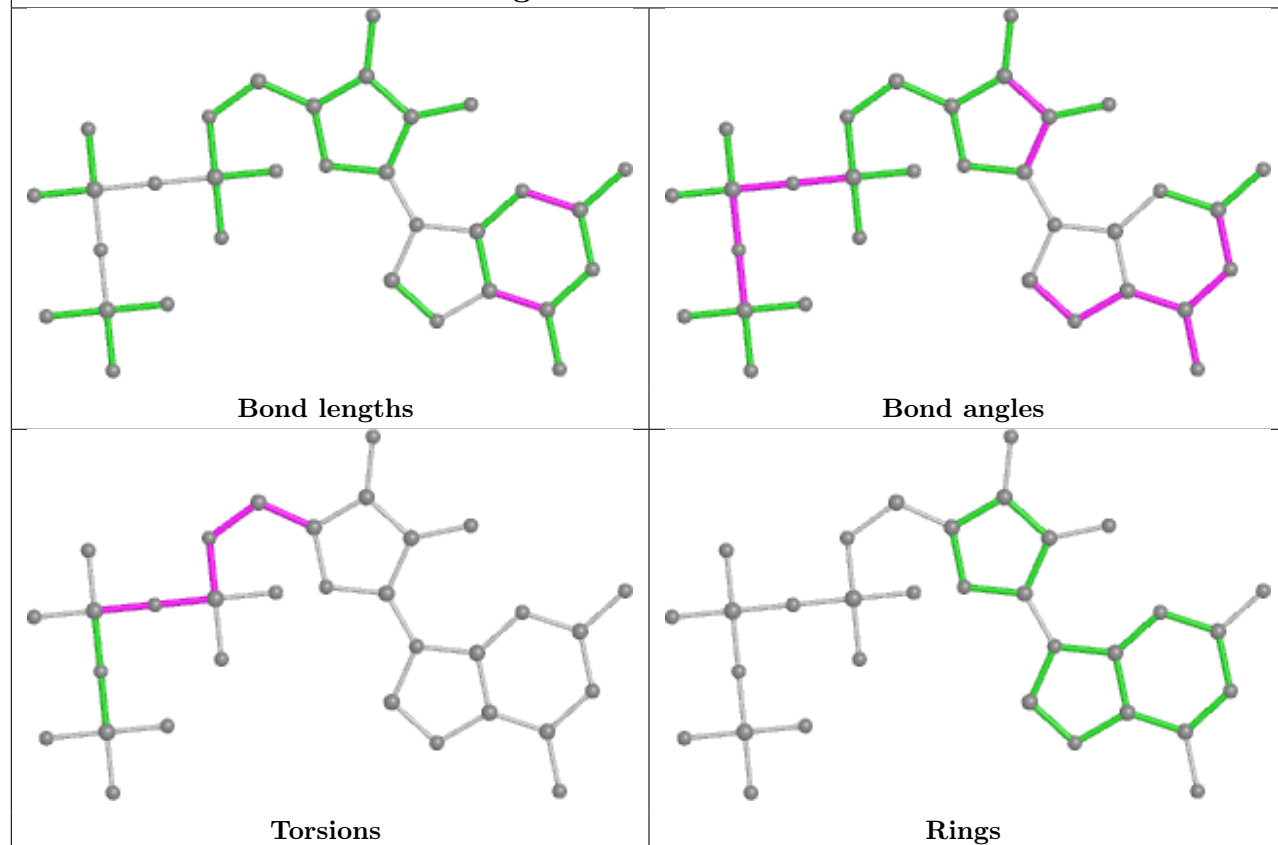


Torsions

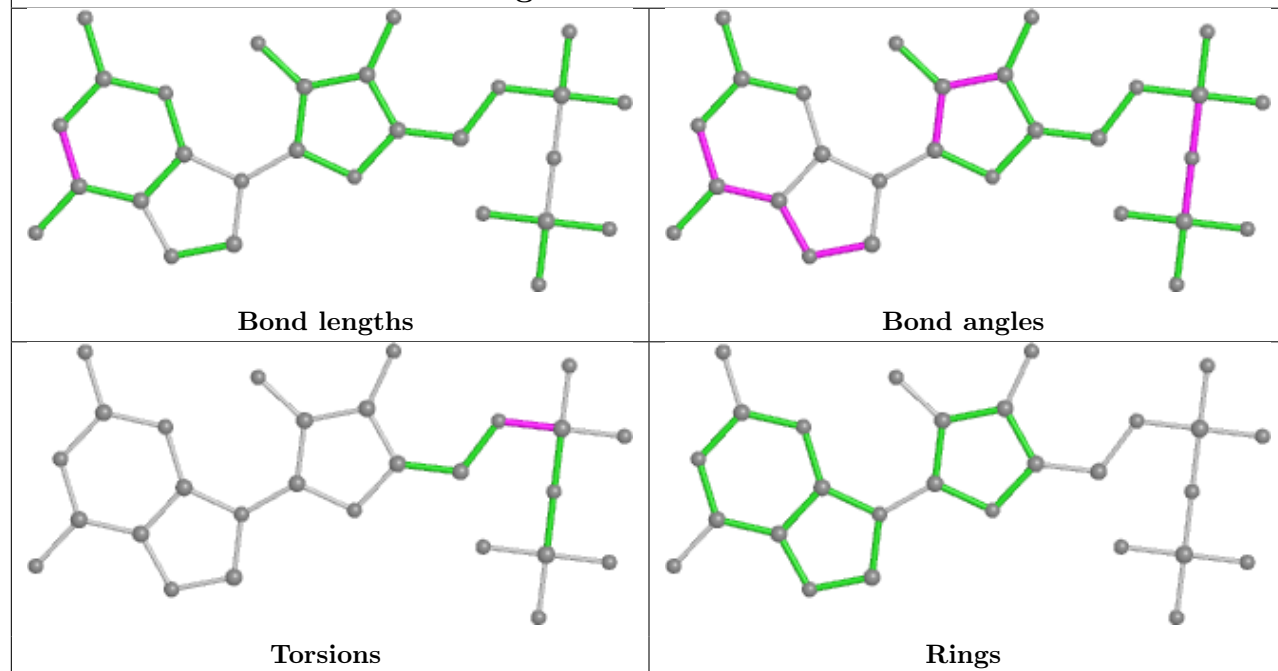


Rings

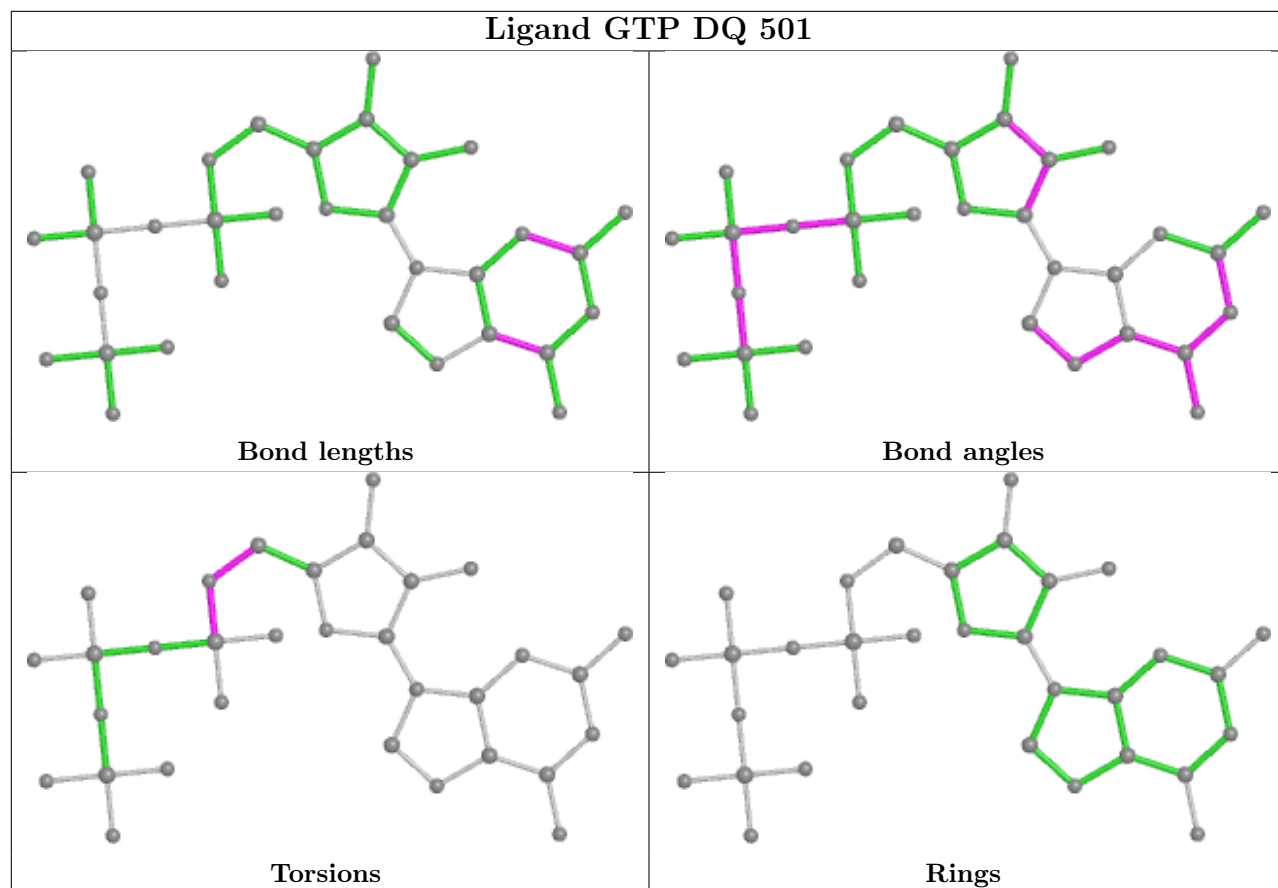
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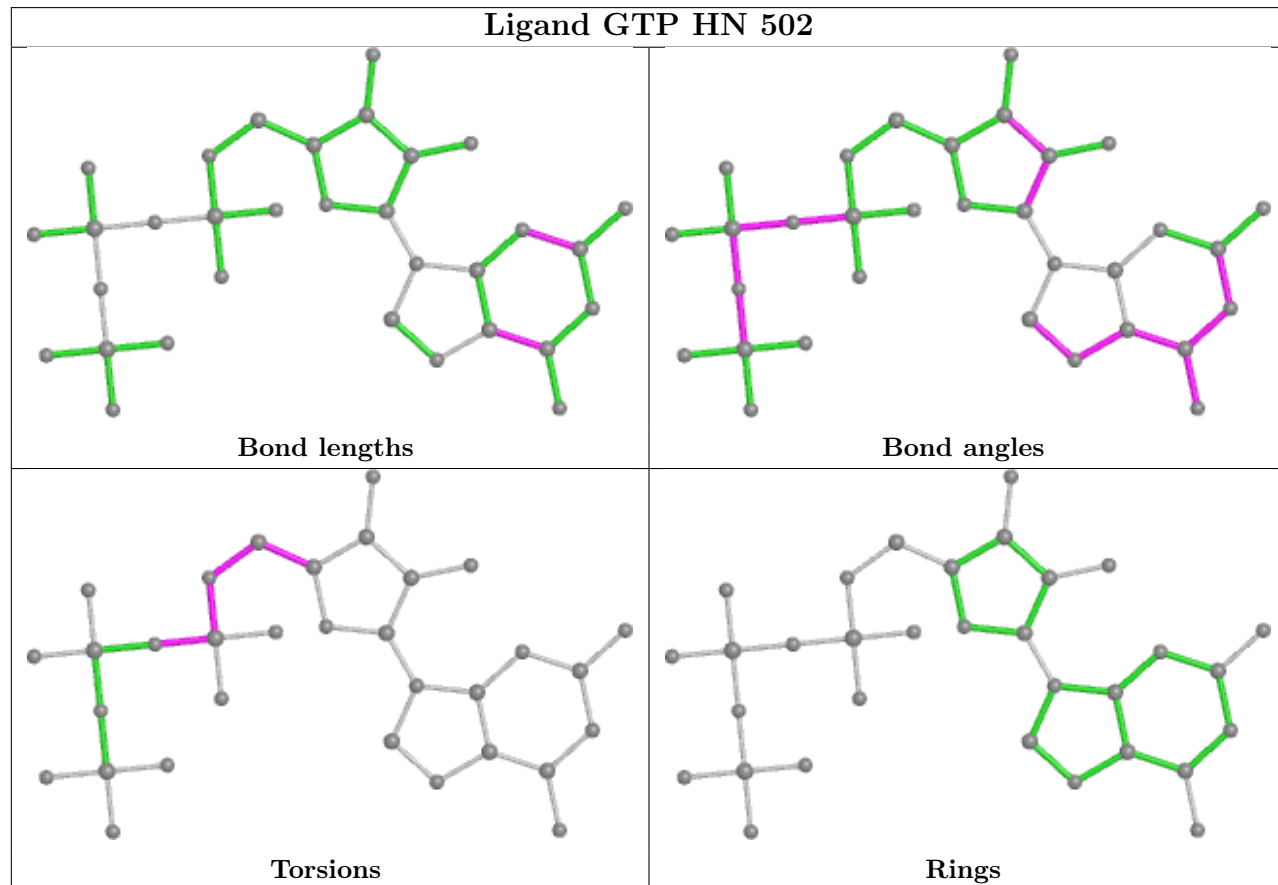
Ligand GDP HB 501

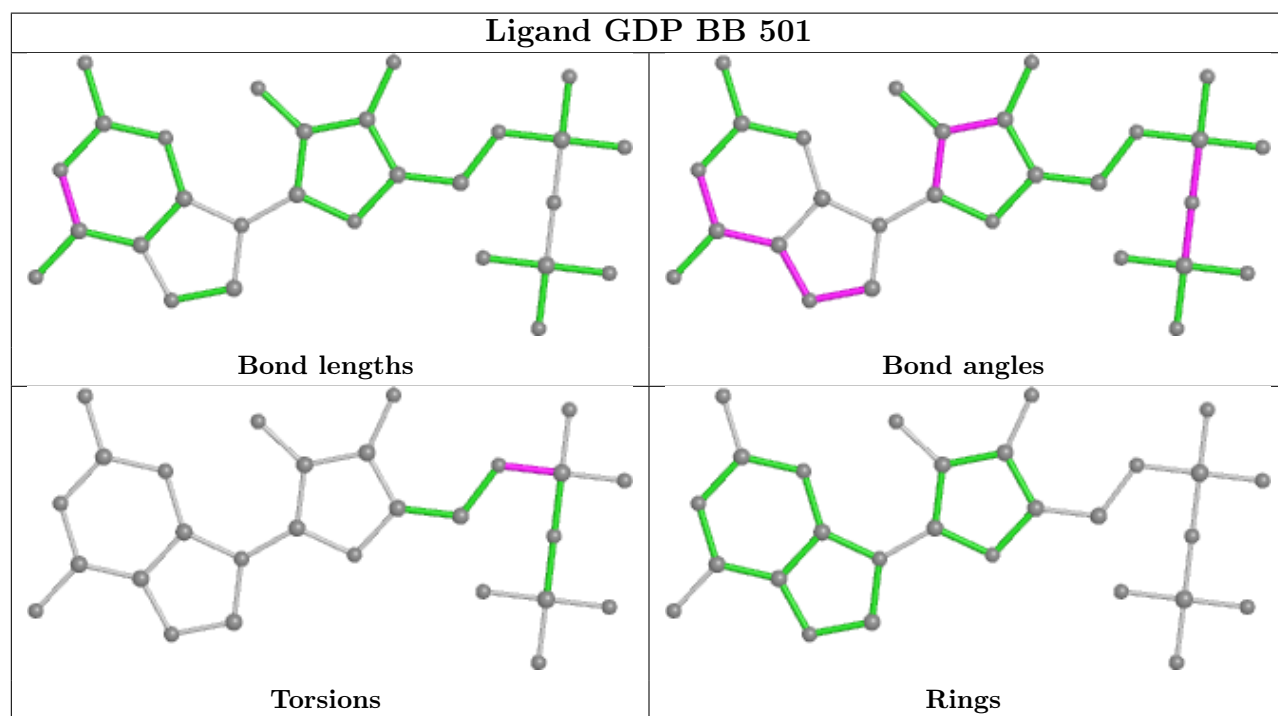
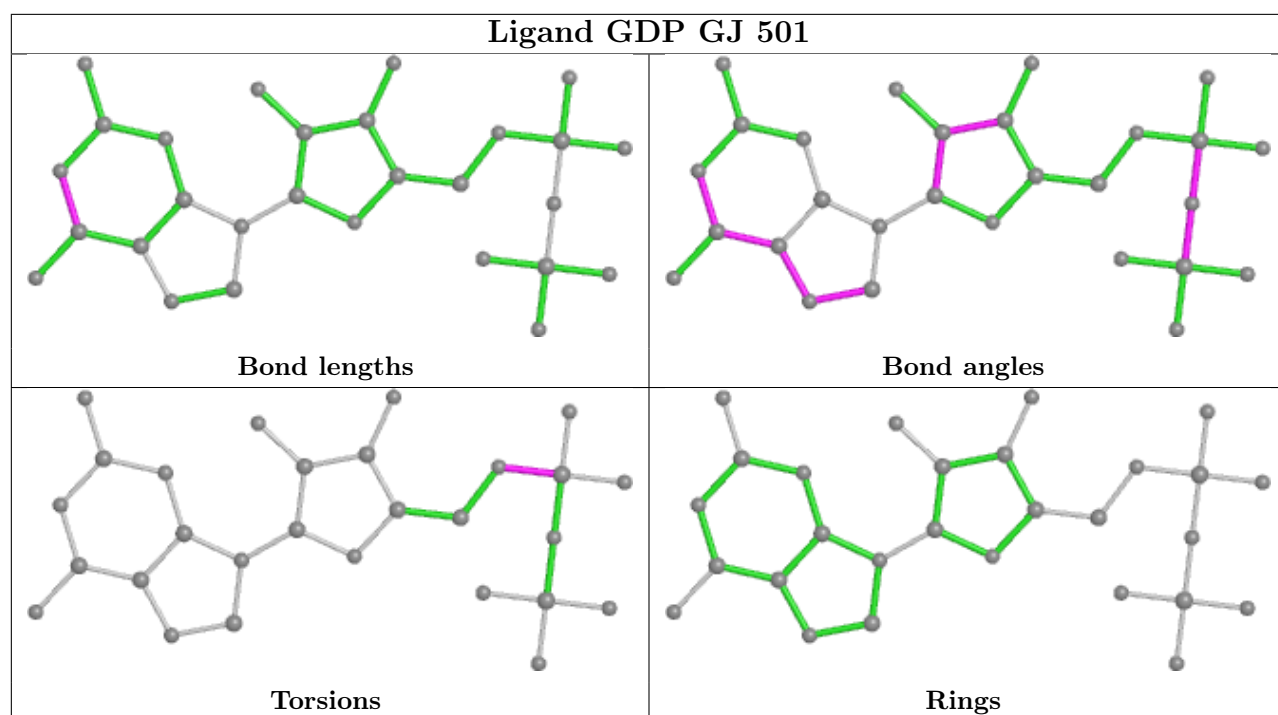


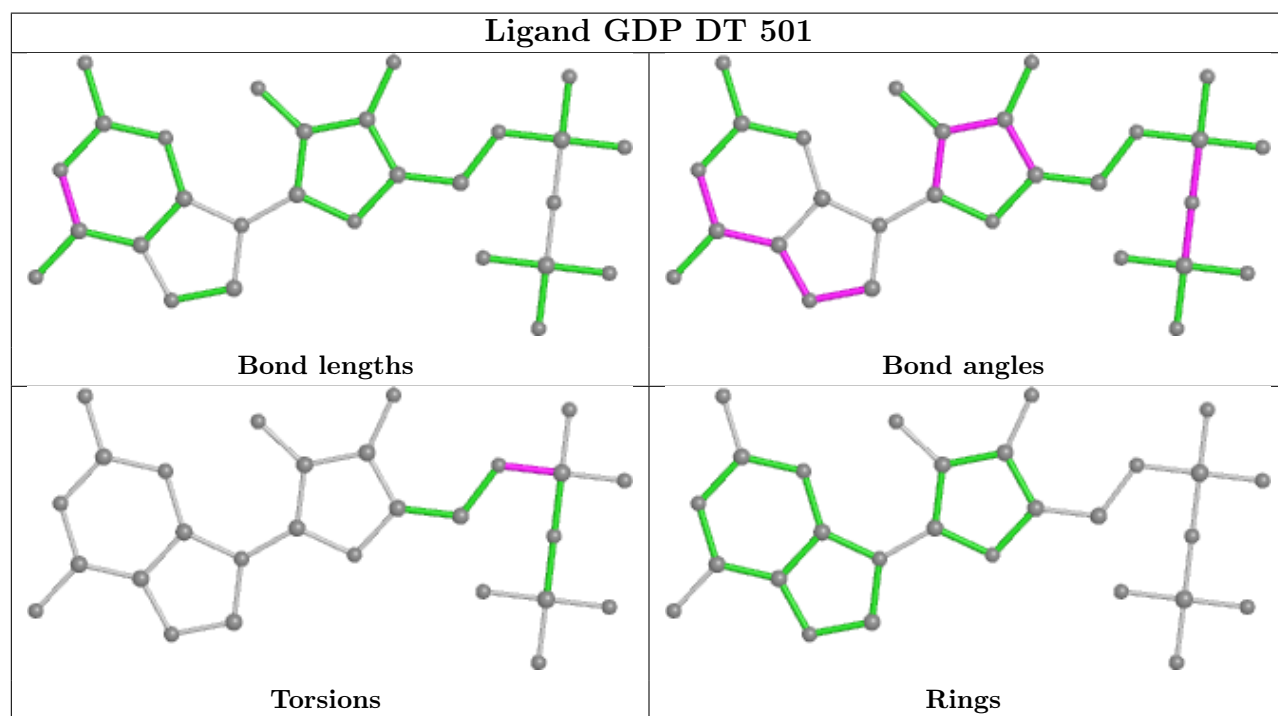
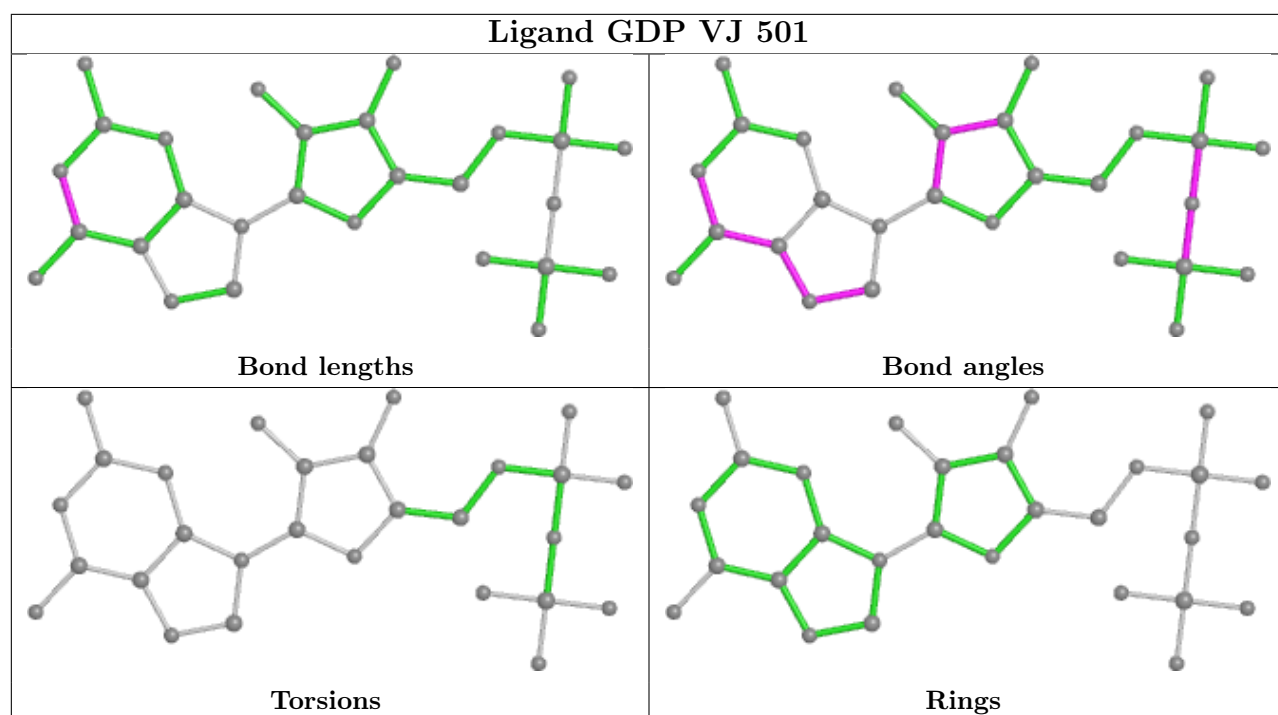
Ligand GTP DQ 501



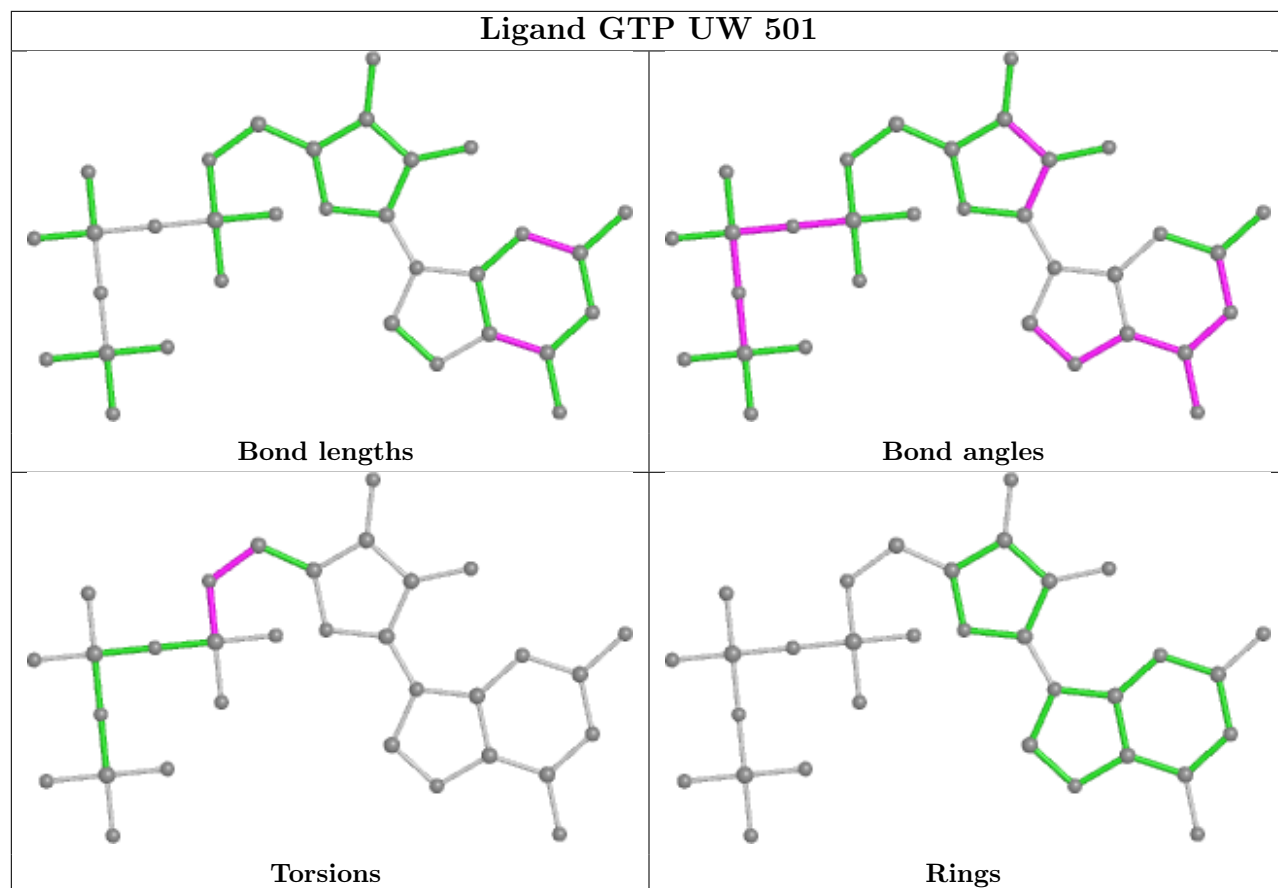
Ligand GTP HN 502



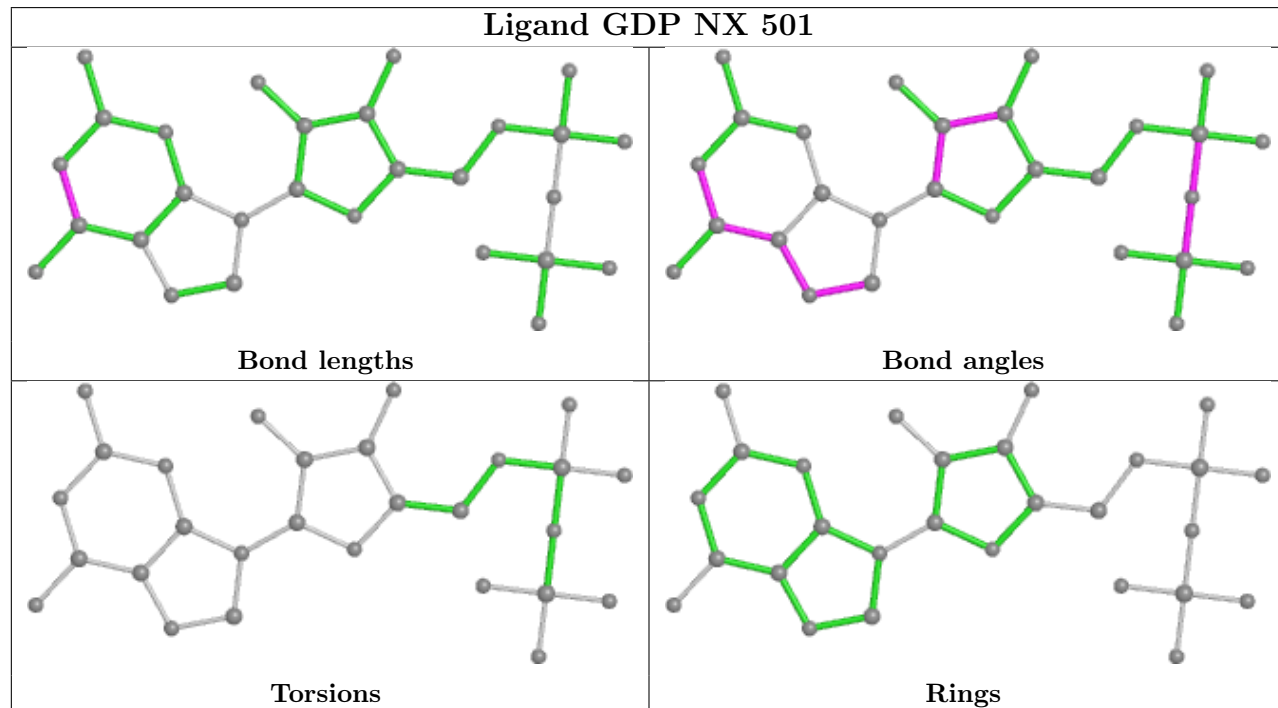




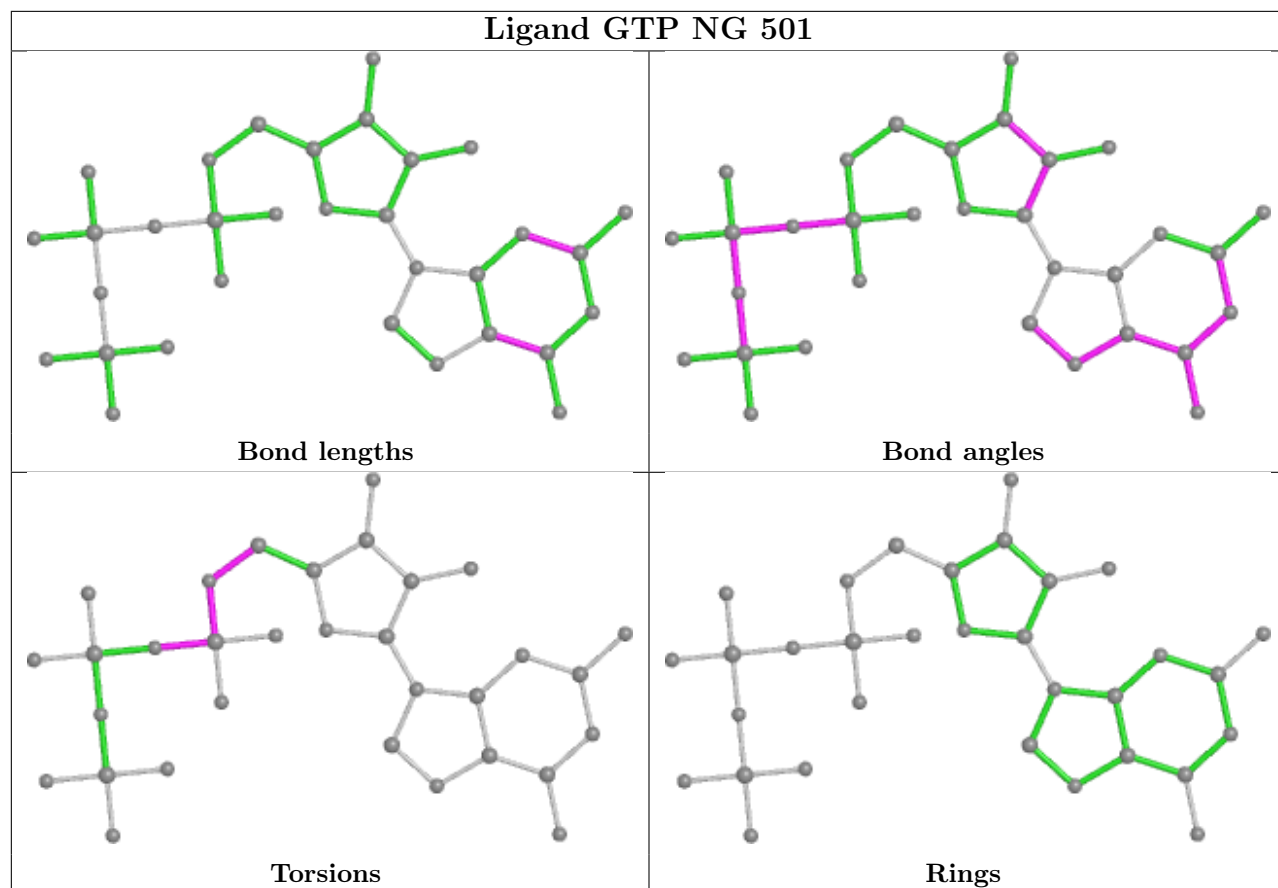
Ligand GTP UW 501



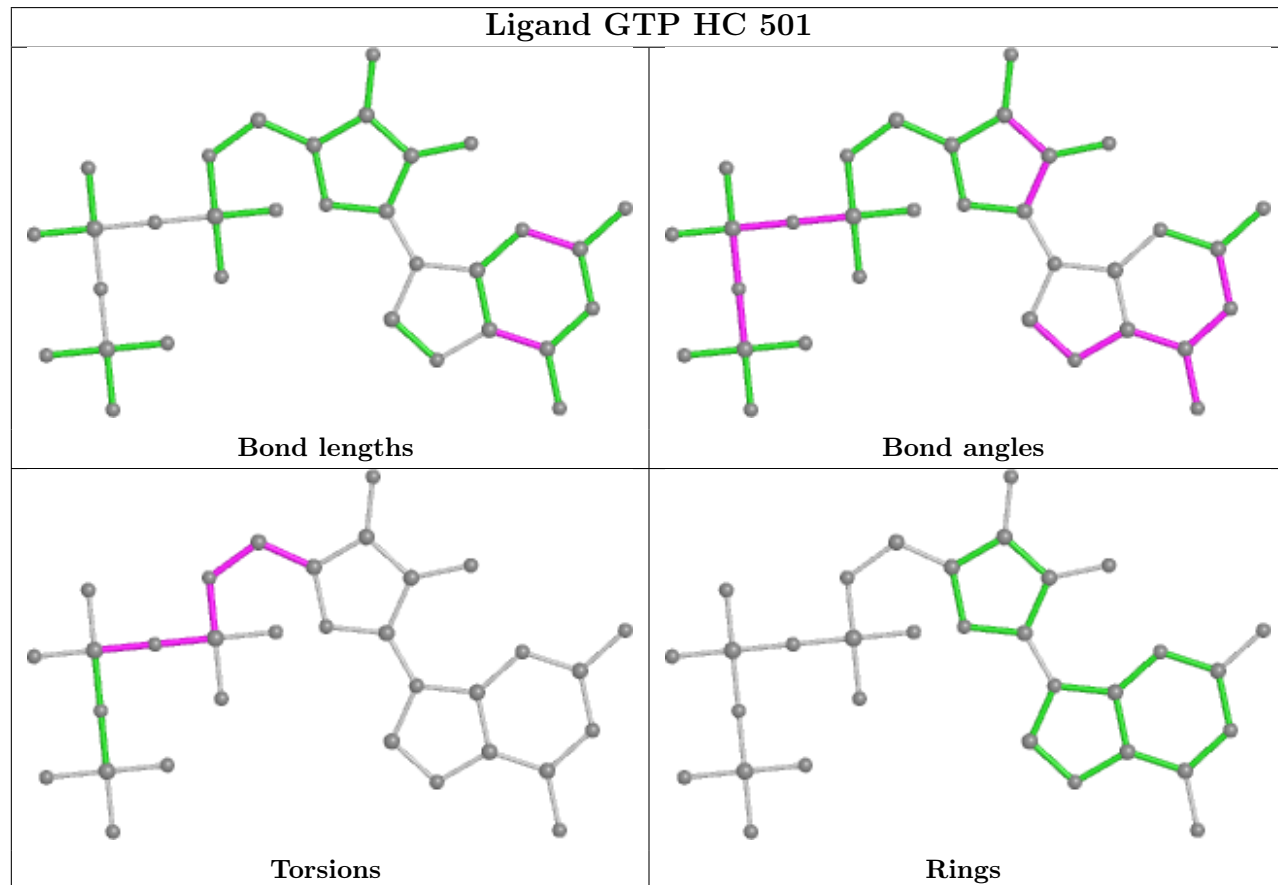
Ligand GDP NX 501



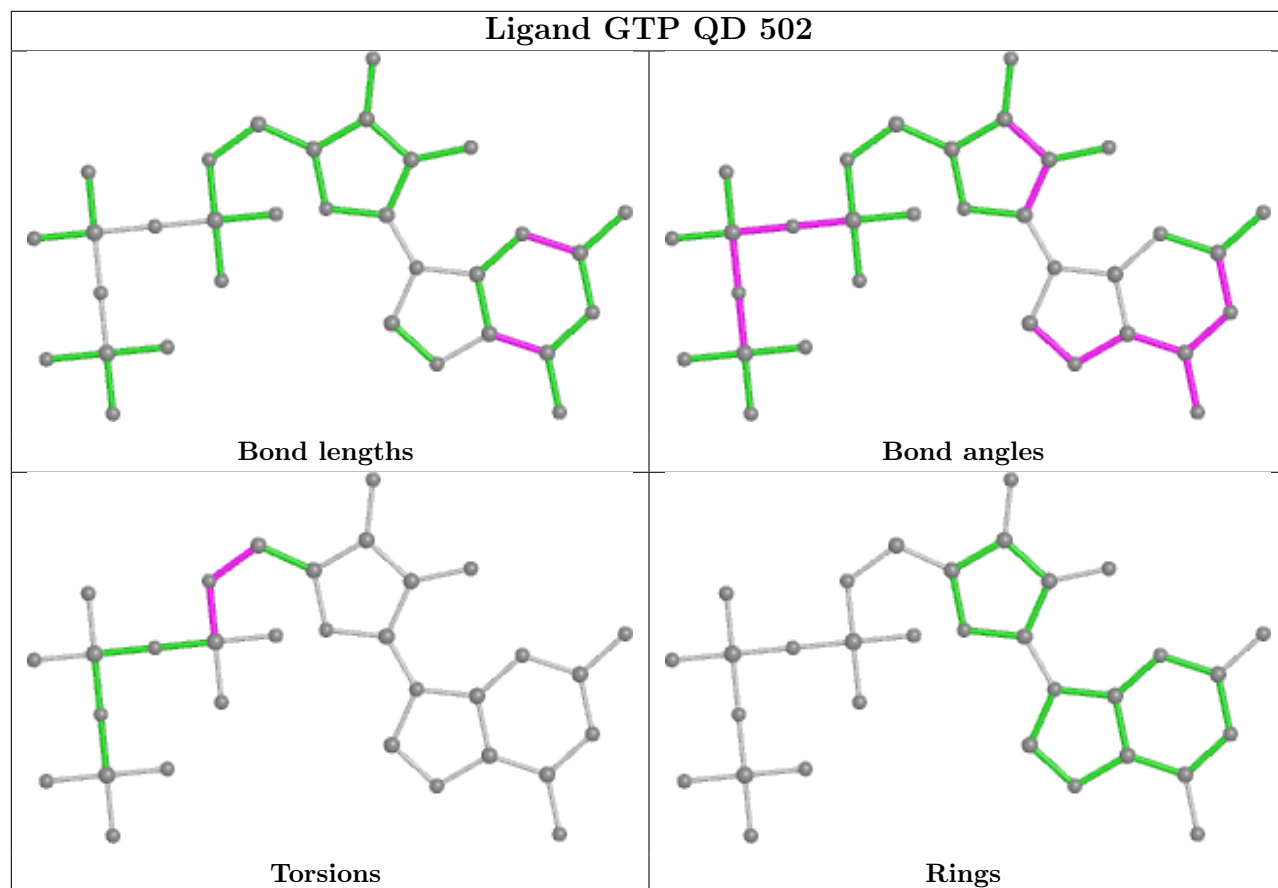
Ligand GTP NG 501



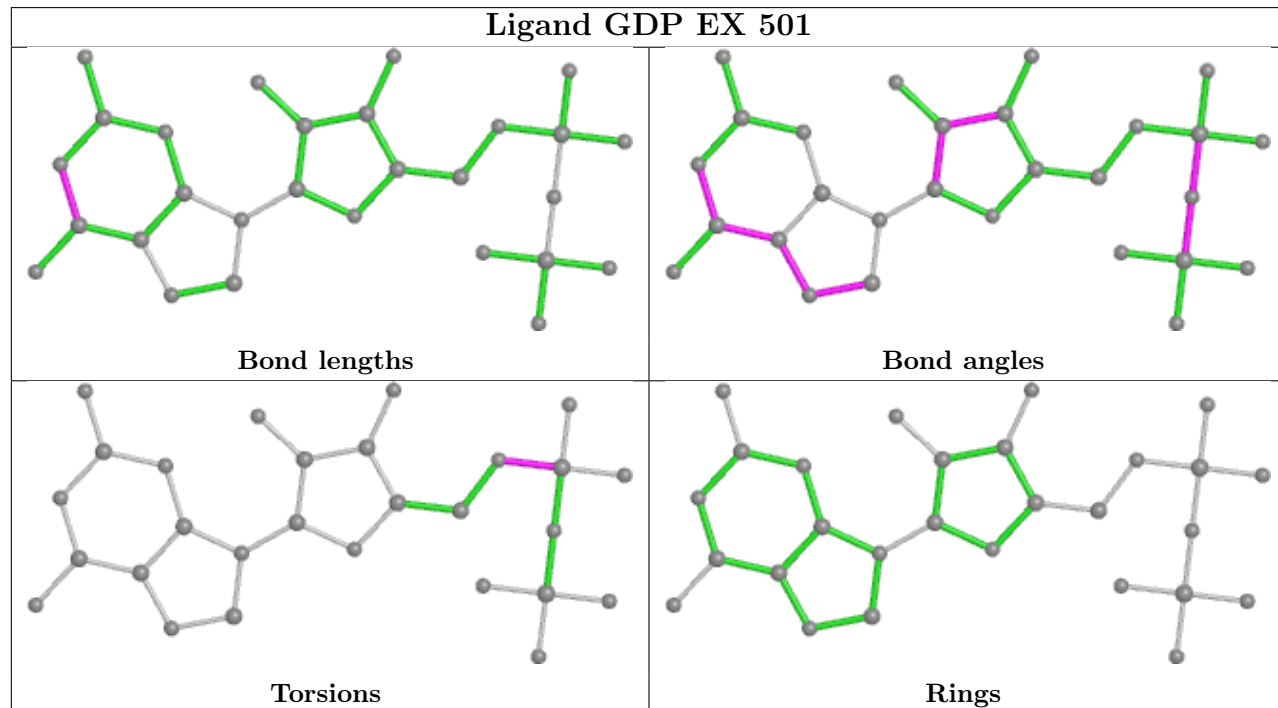
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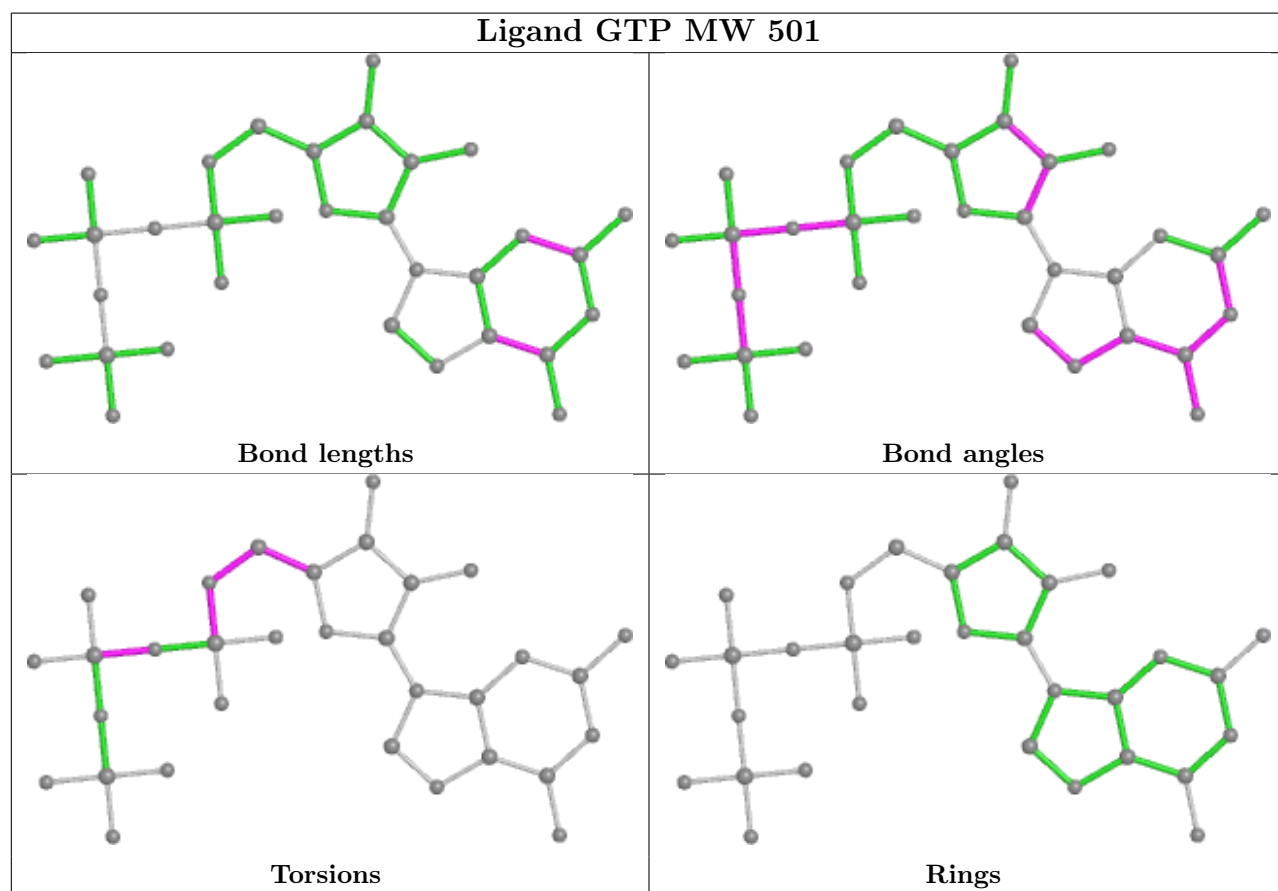
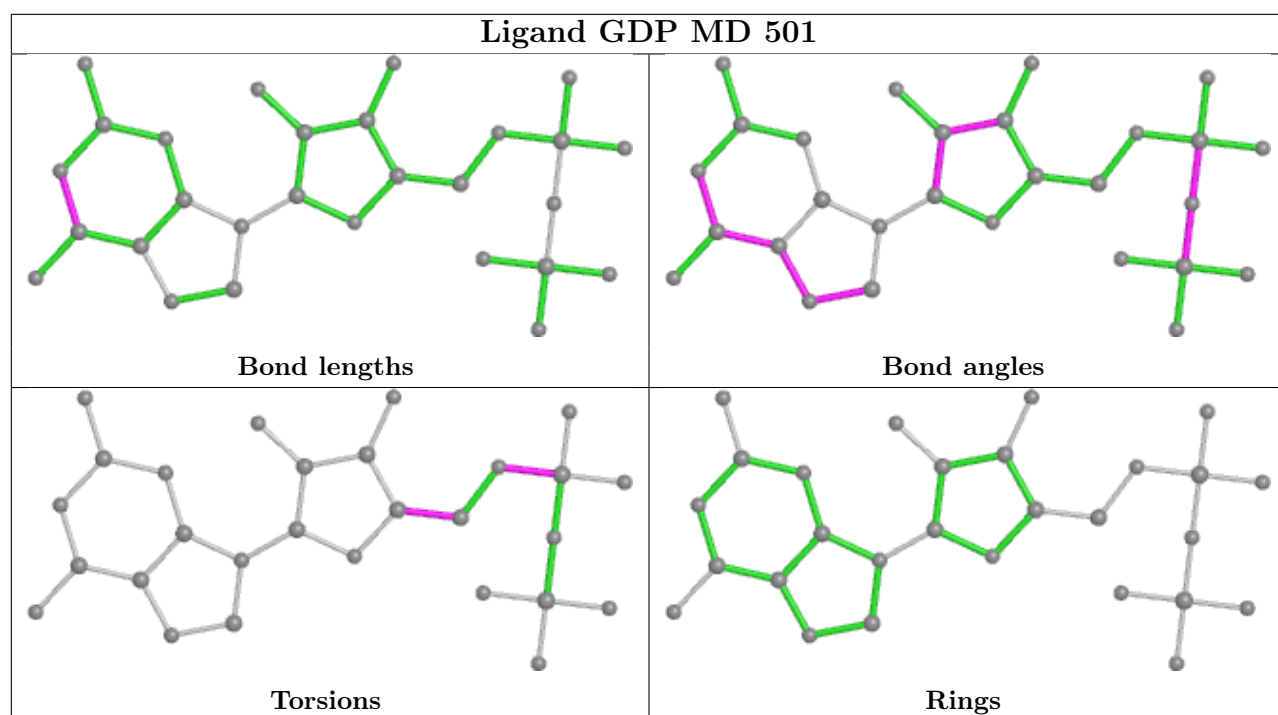


Ligand GTP QD 502

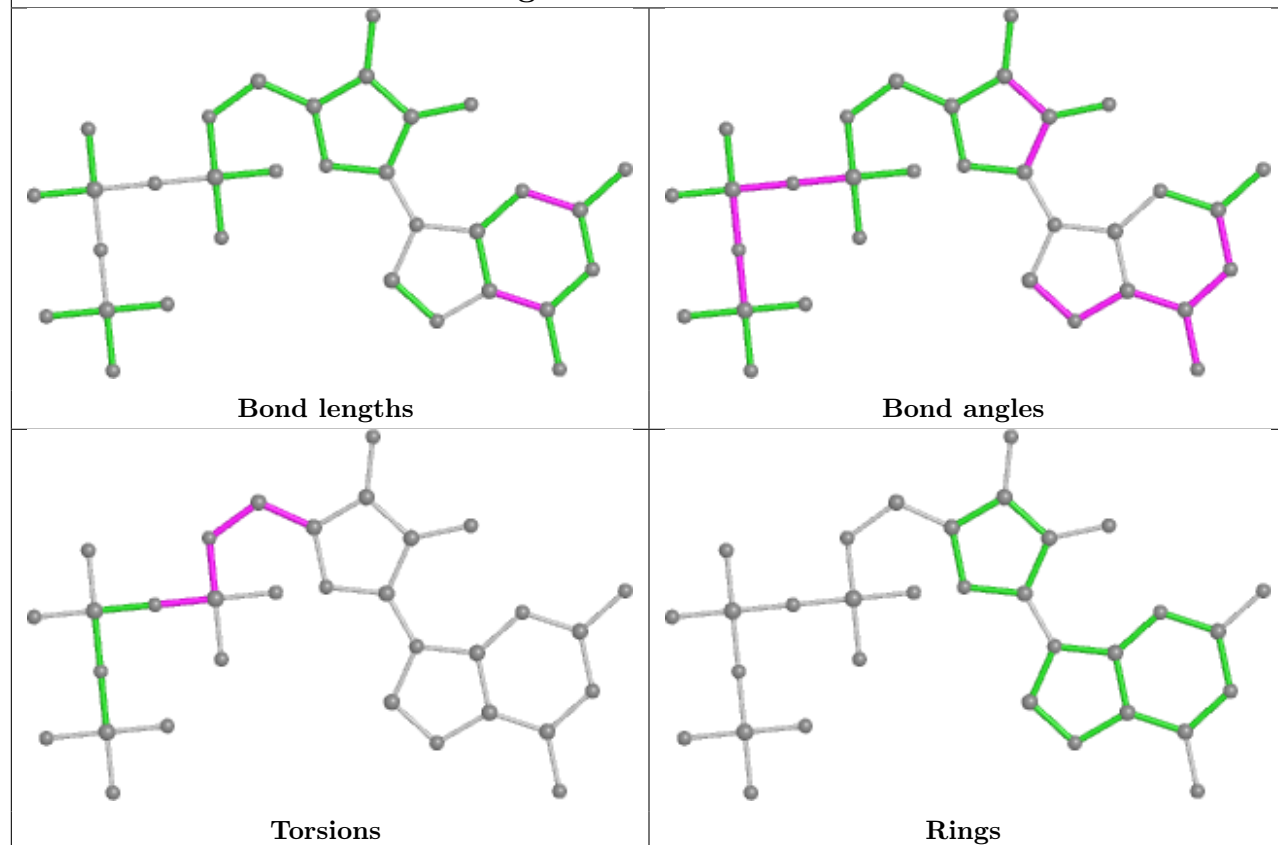


Ligand GDP EX 501

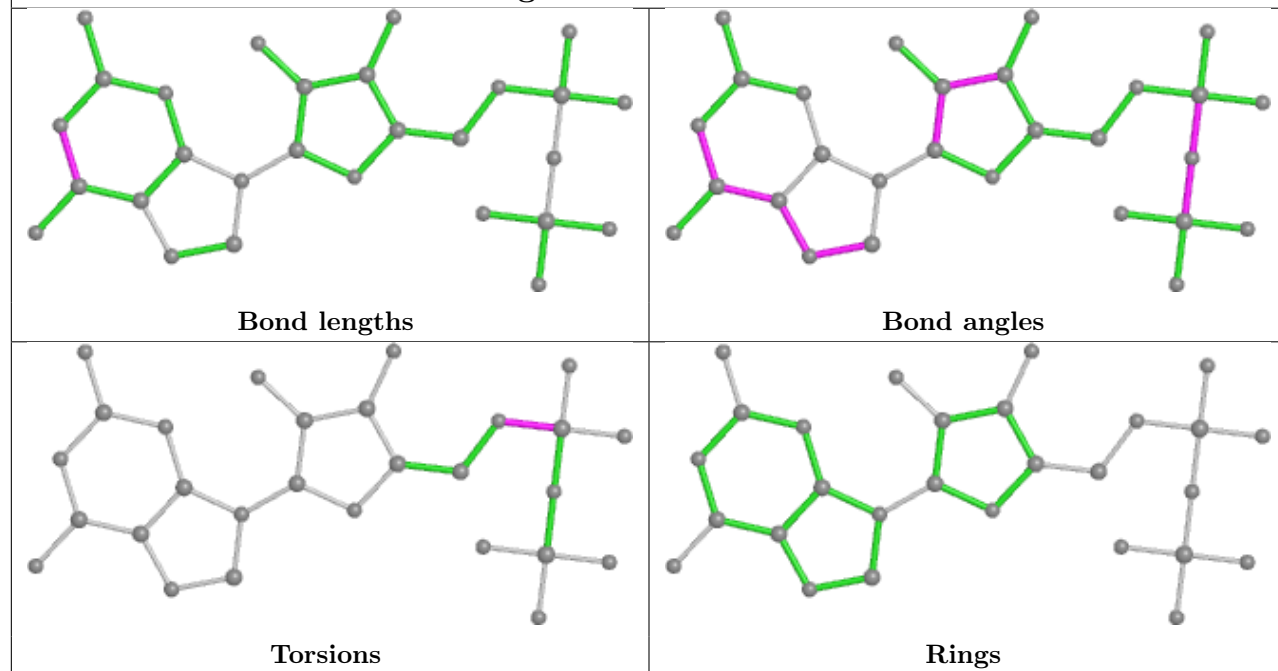




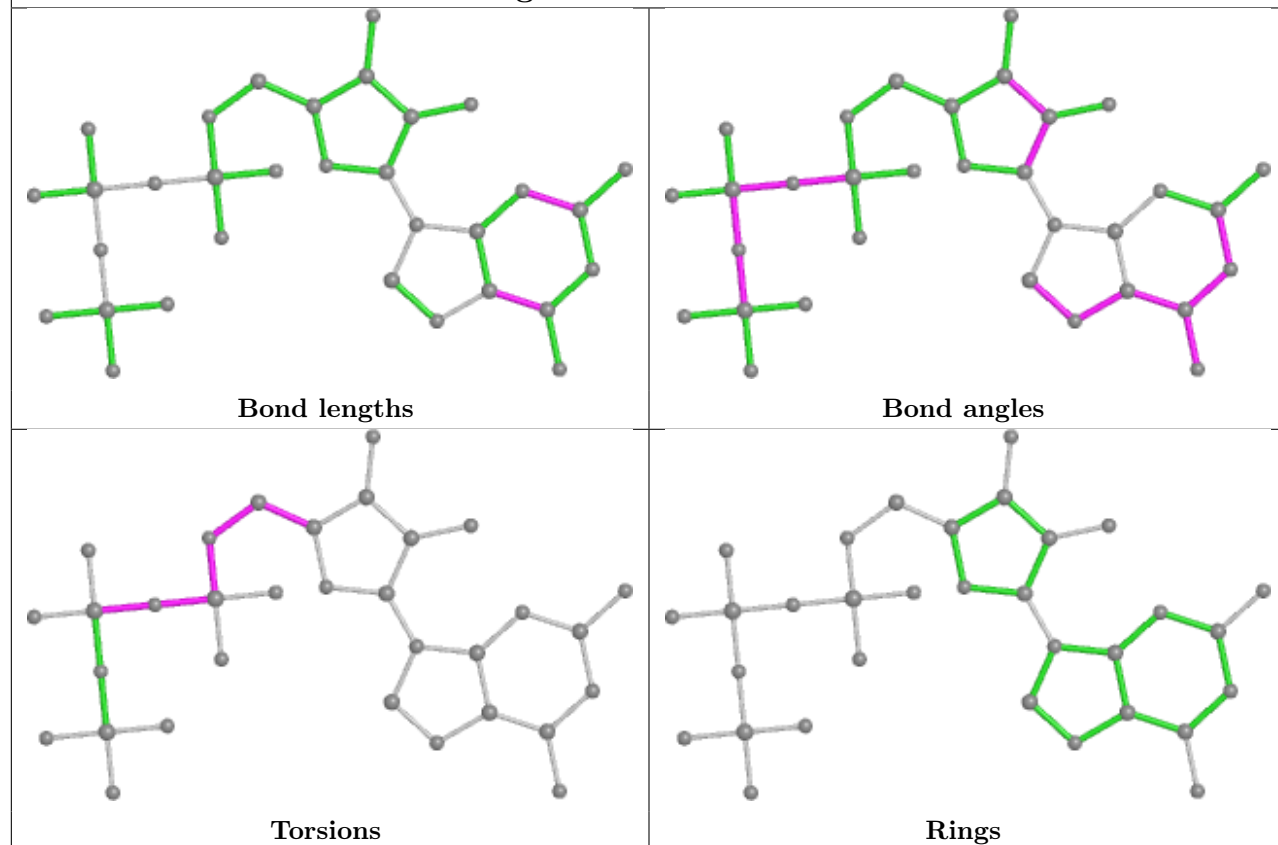
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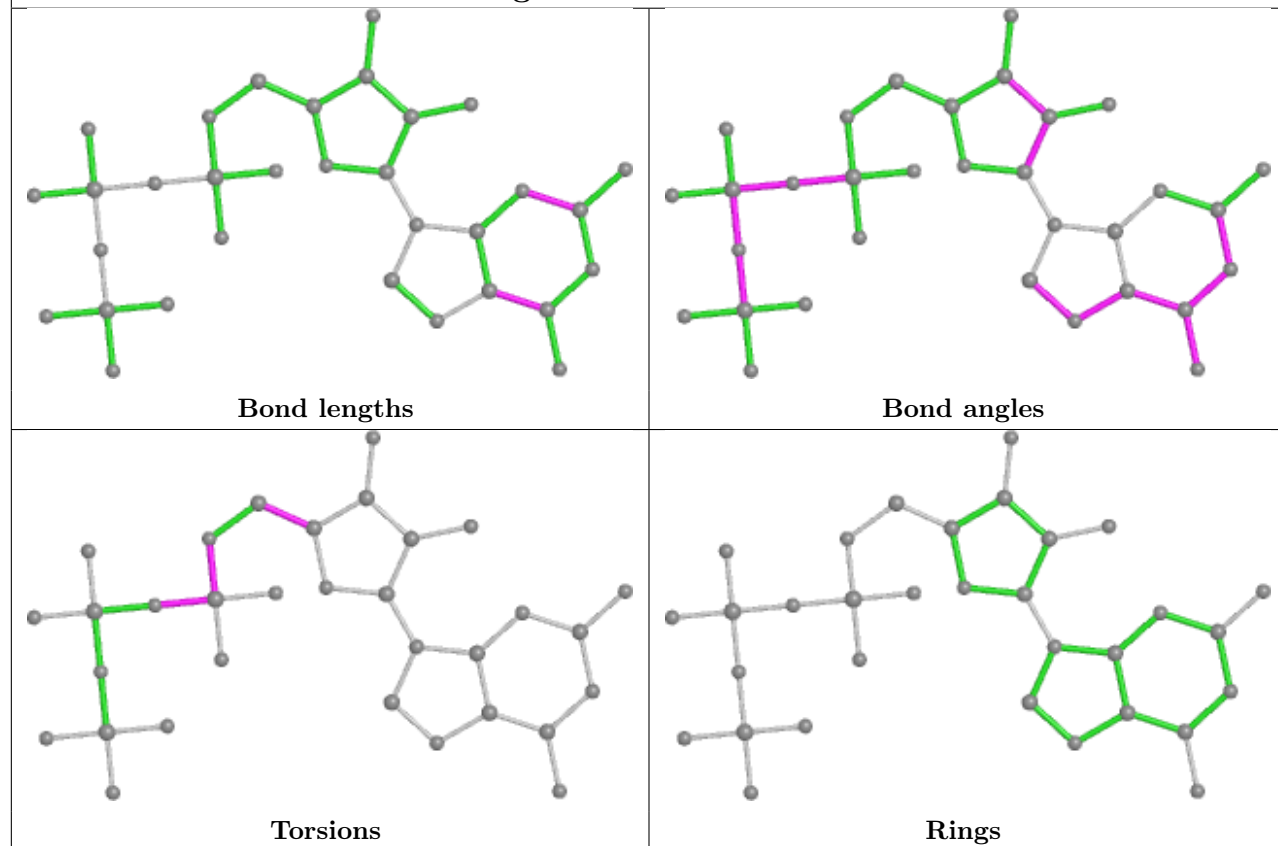
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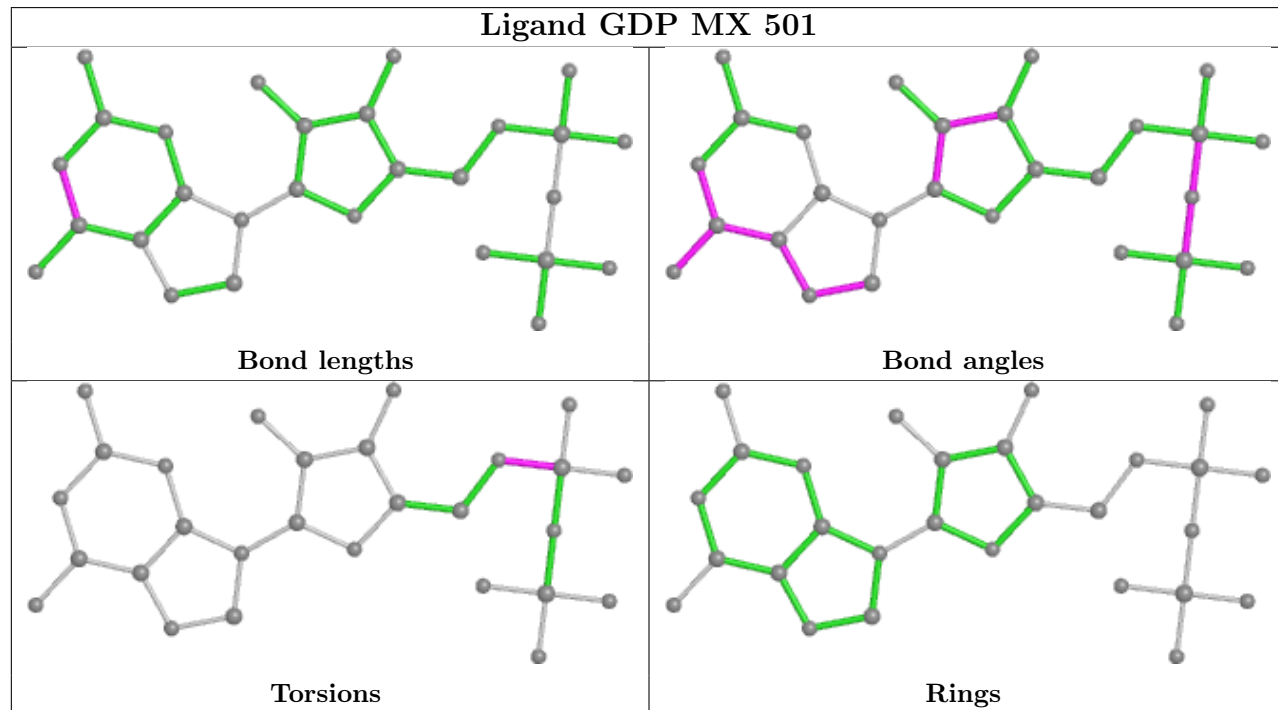
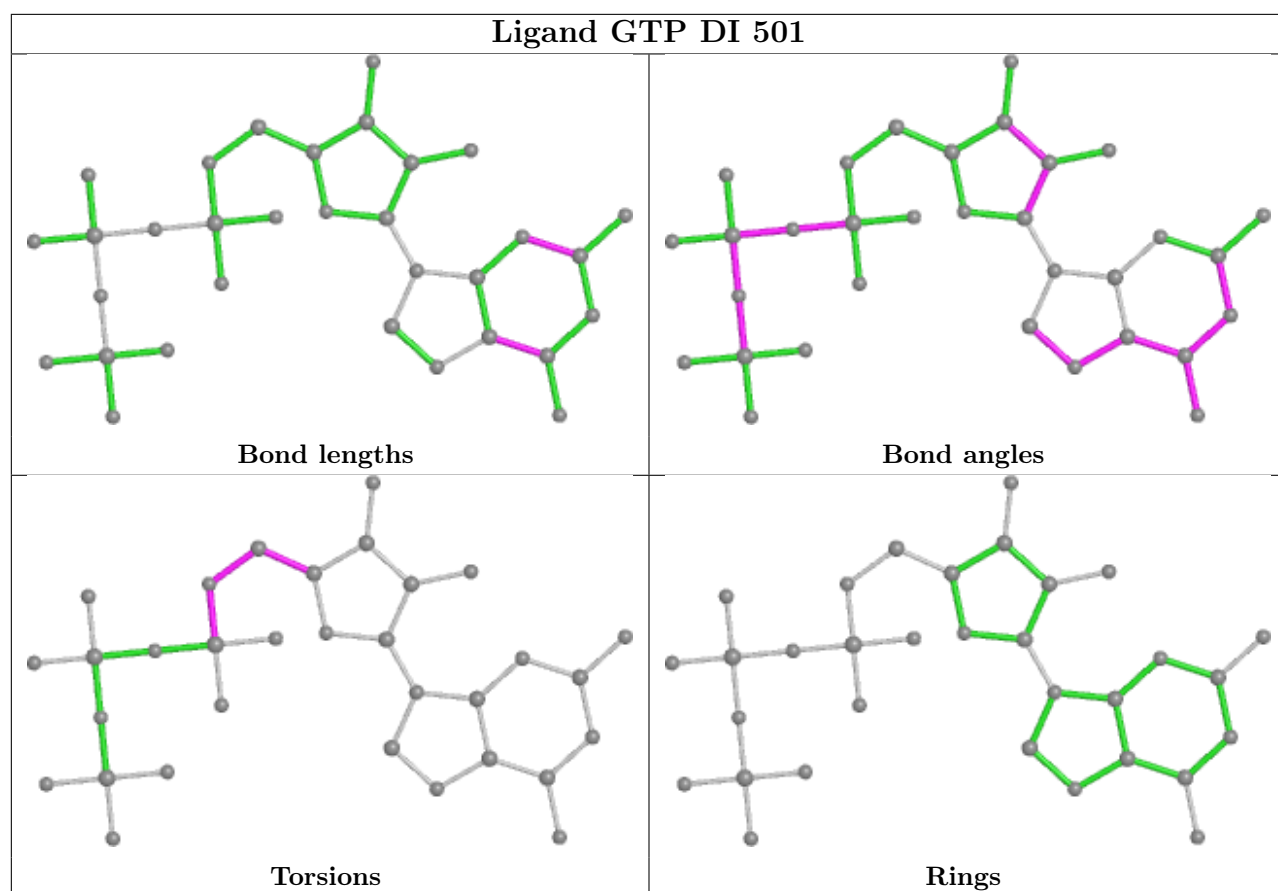


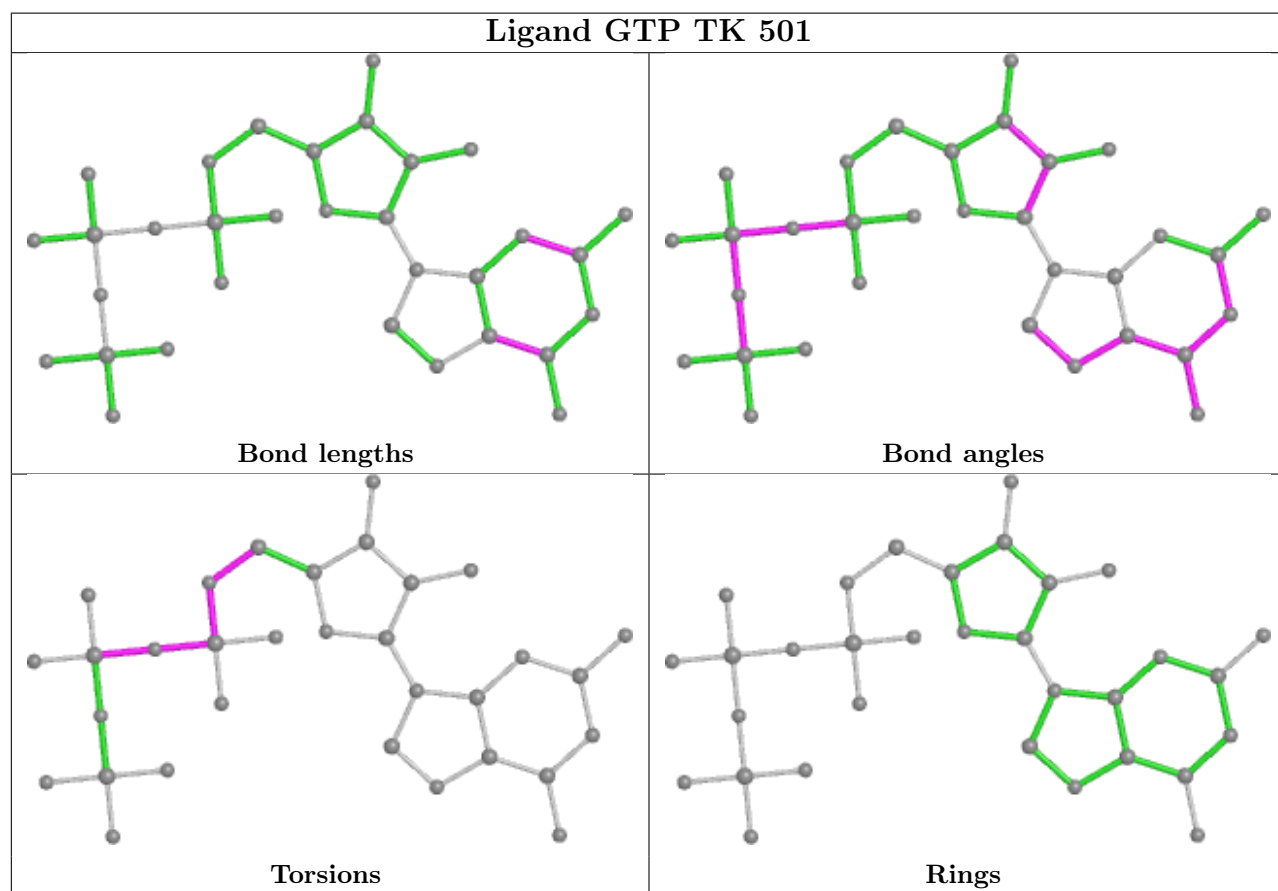
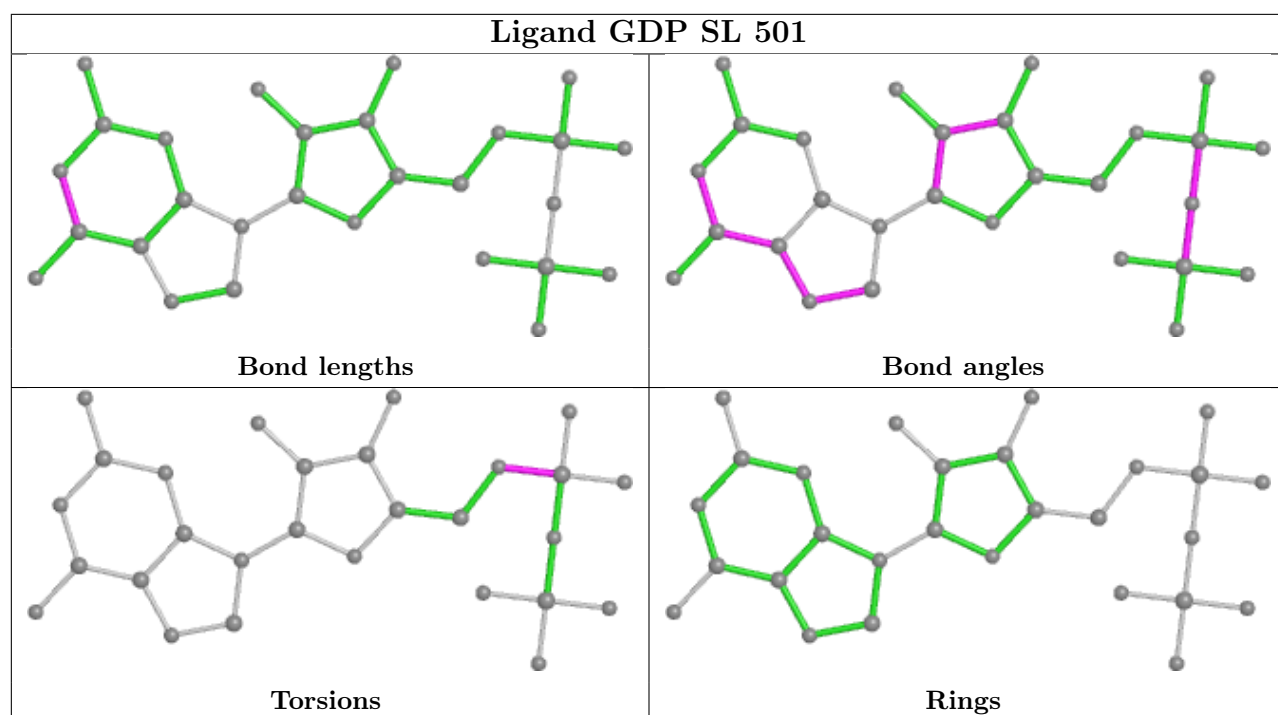
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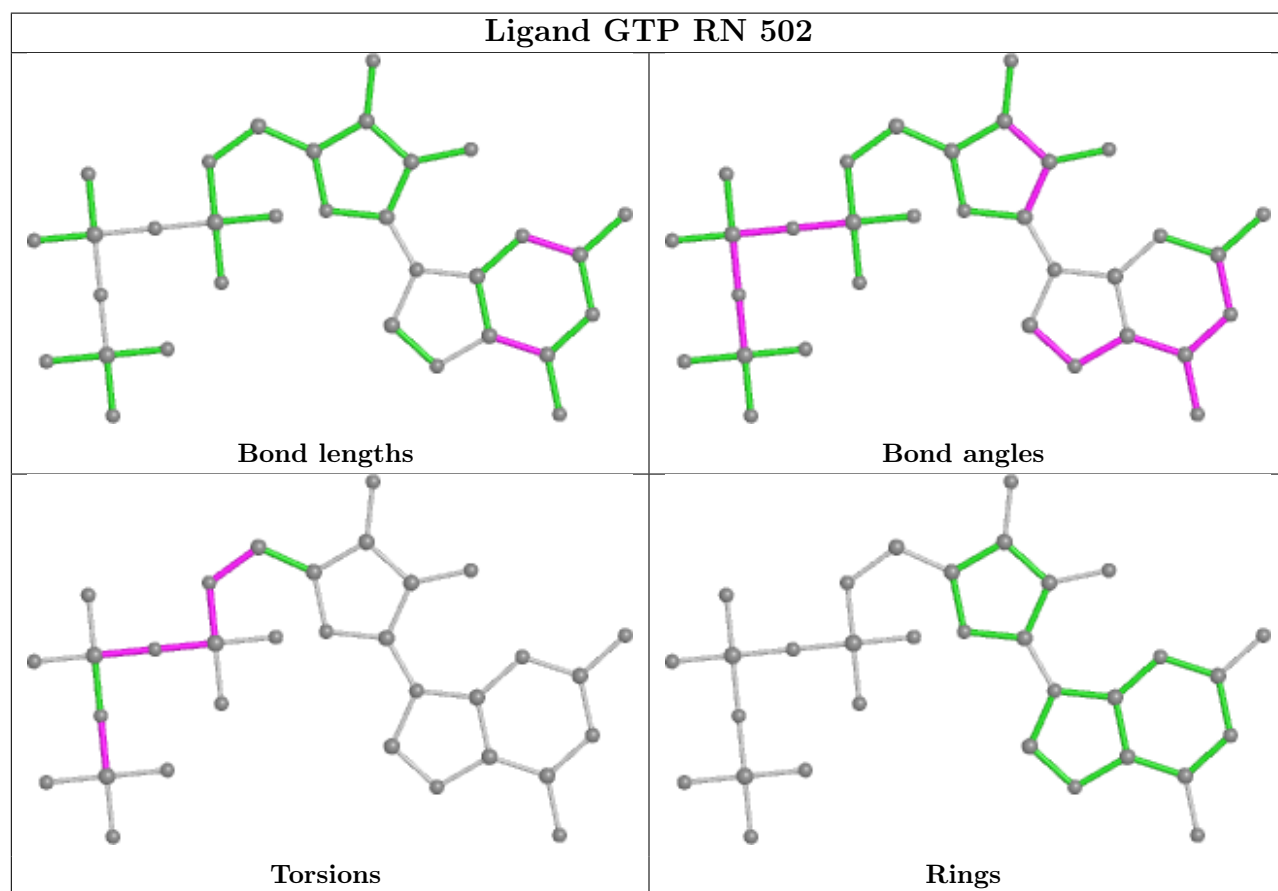
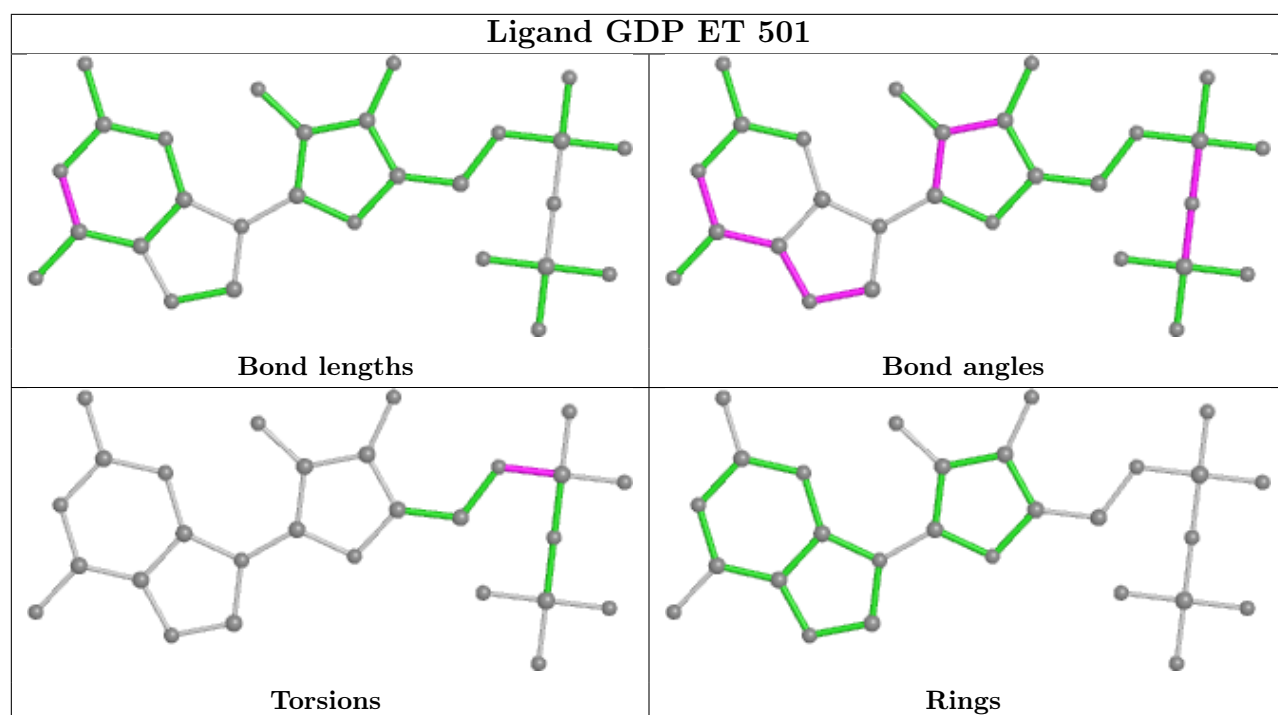


Ligand GTP AM 501

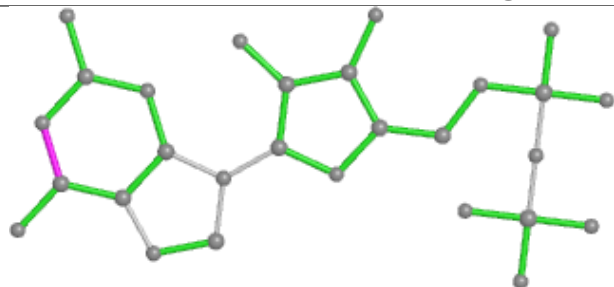




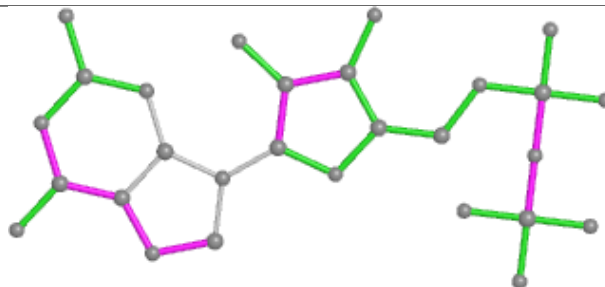




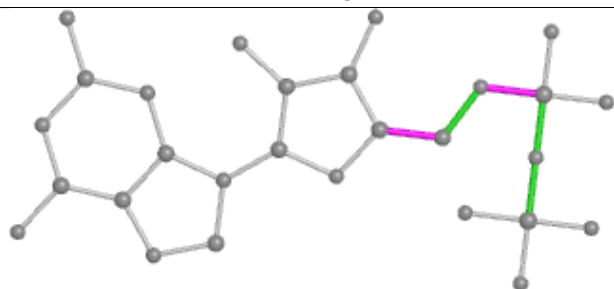
Ligand GDP FR 501



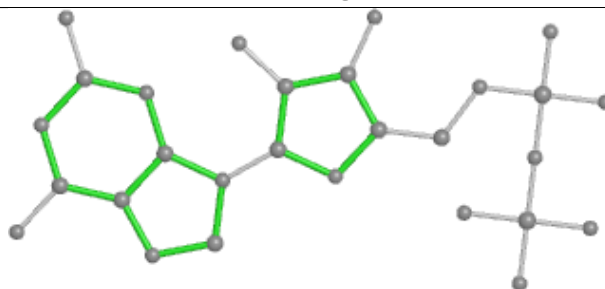
Bond lengths



Bond angles

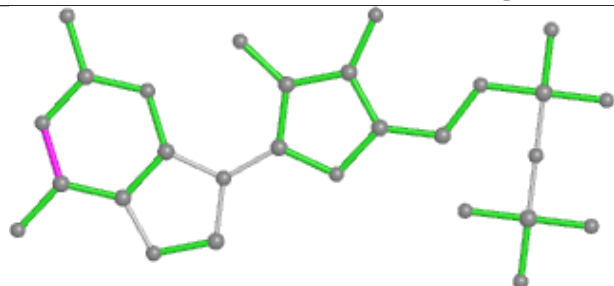


Torsions

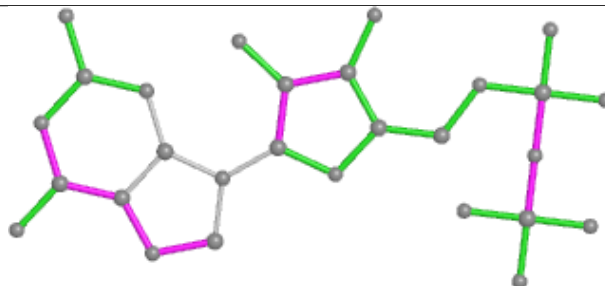


Rings

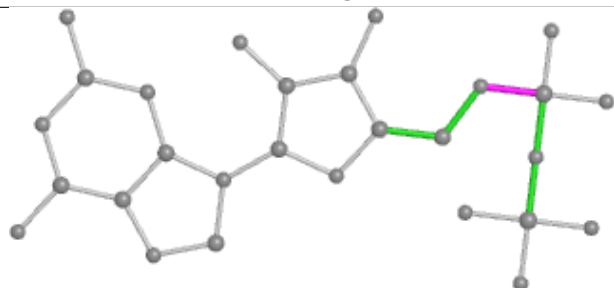
Ligand GDP MJ 501



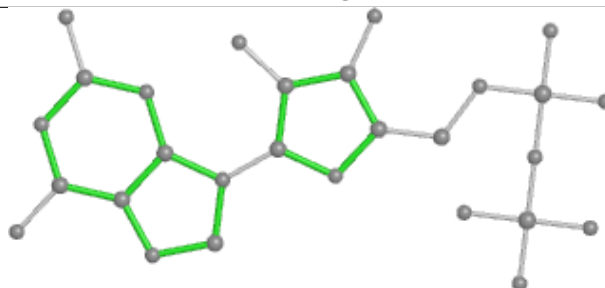
Bond lengths



Bond angles

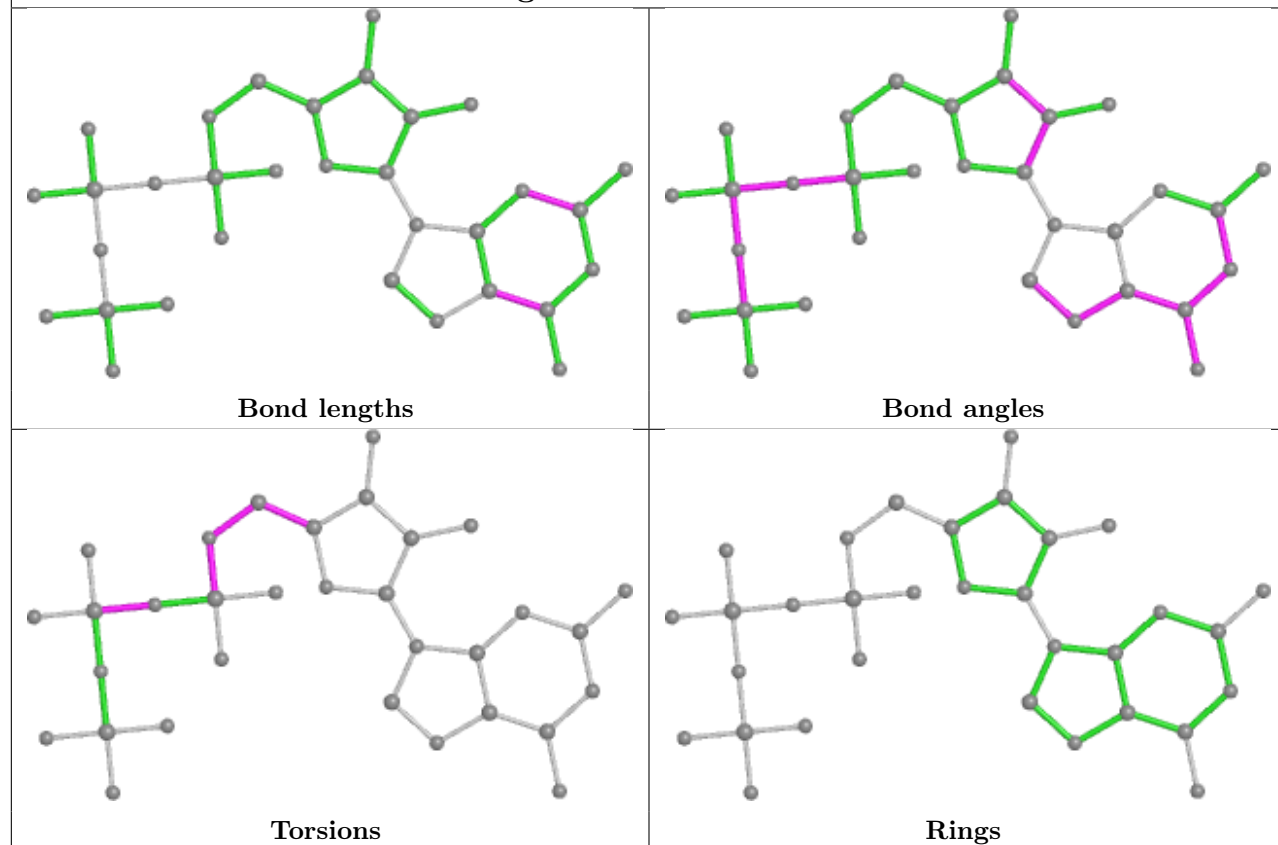


Torsions

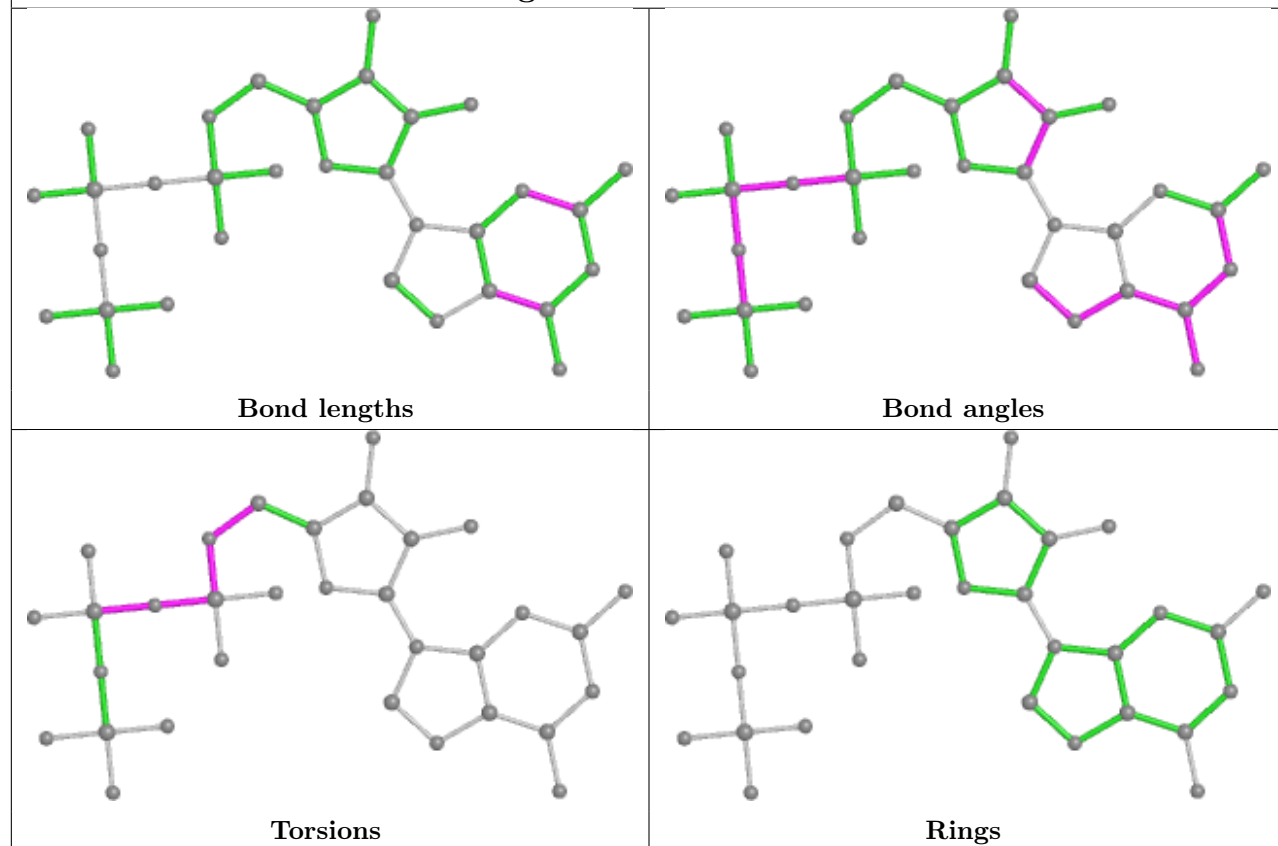


Rings

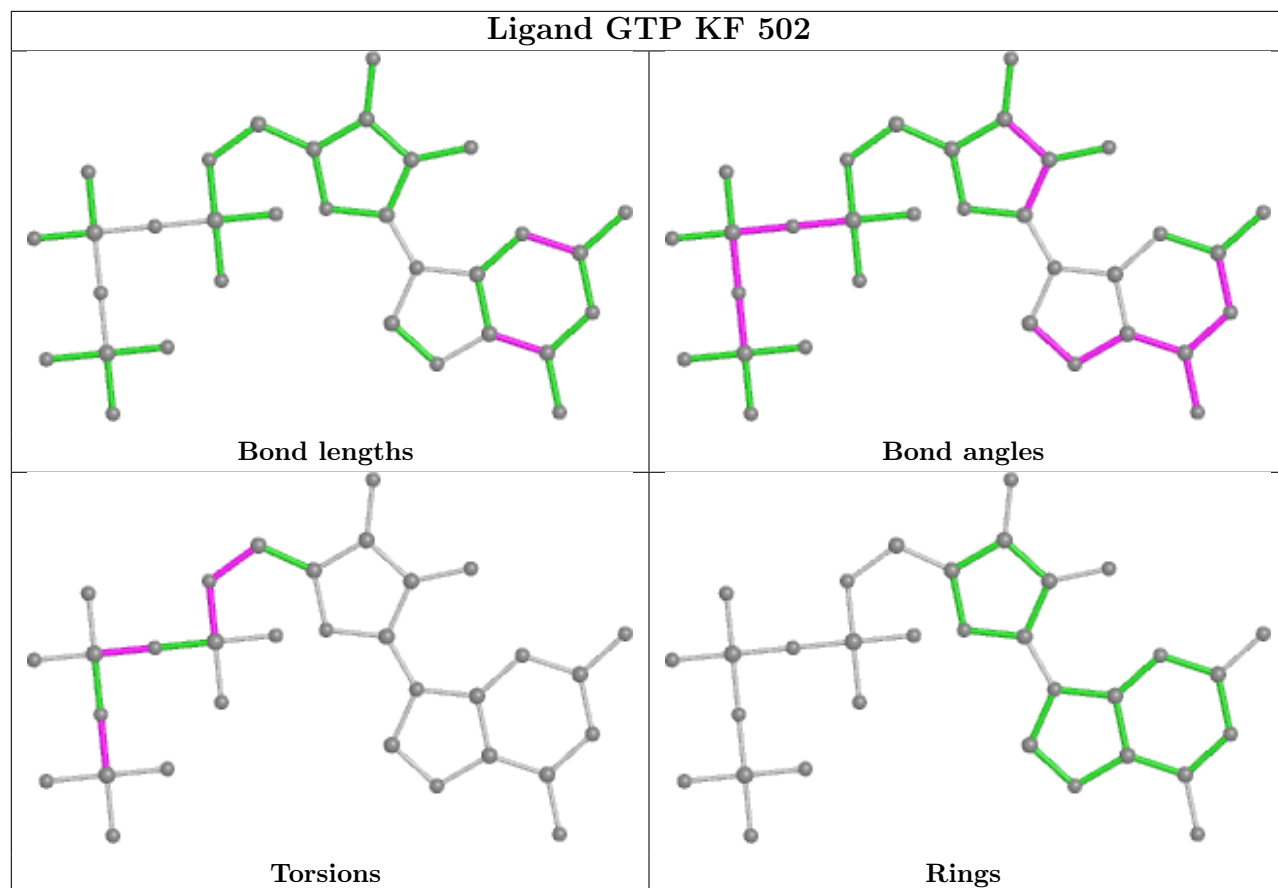
Ligand GTP PG 501



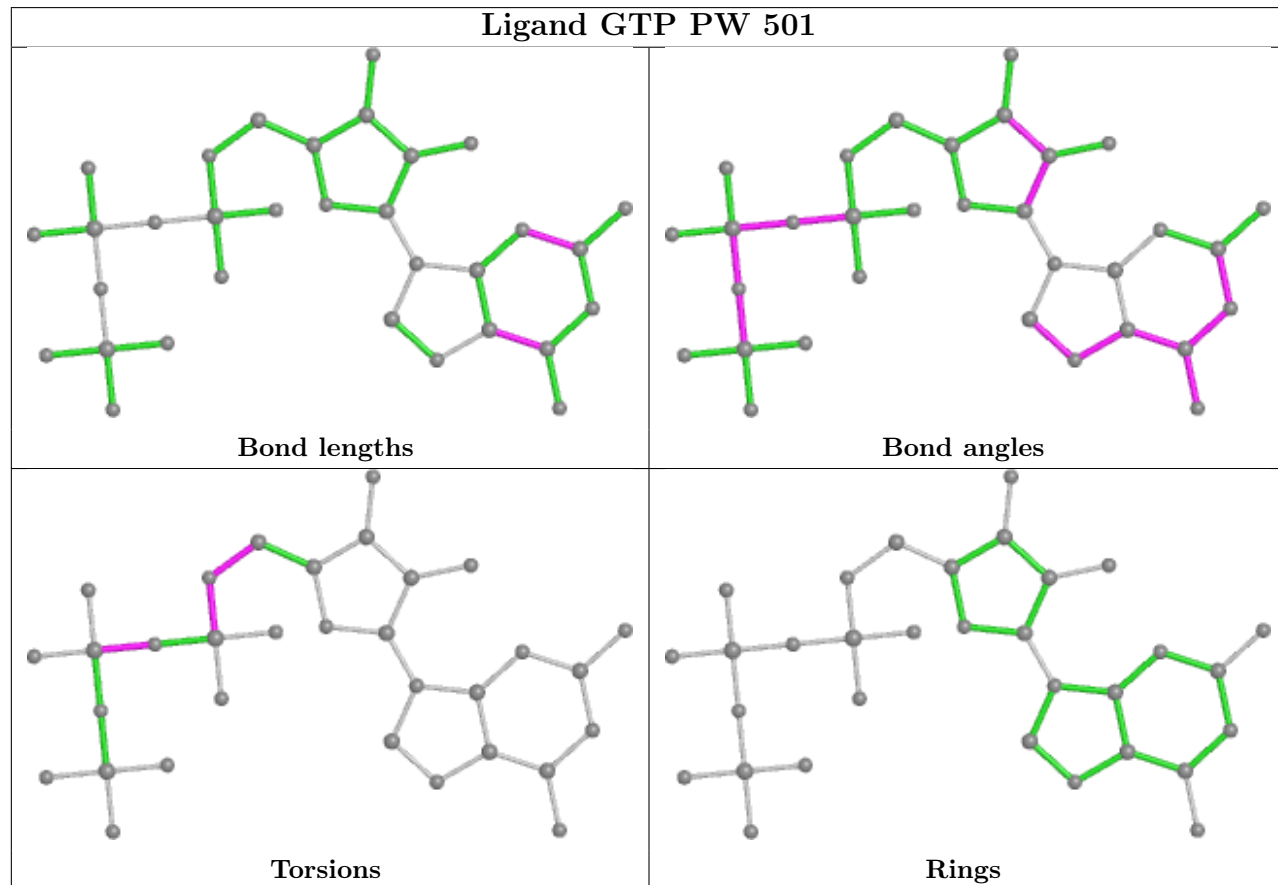
Ligand GTP KE 501



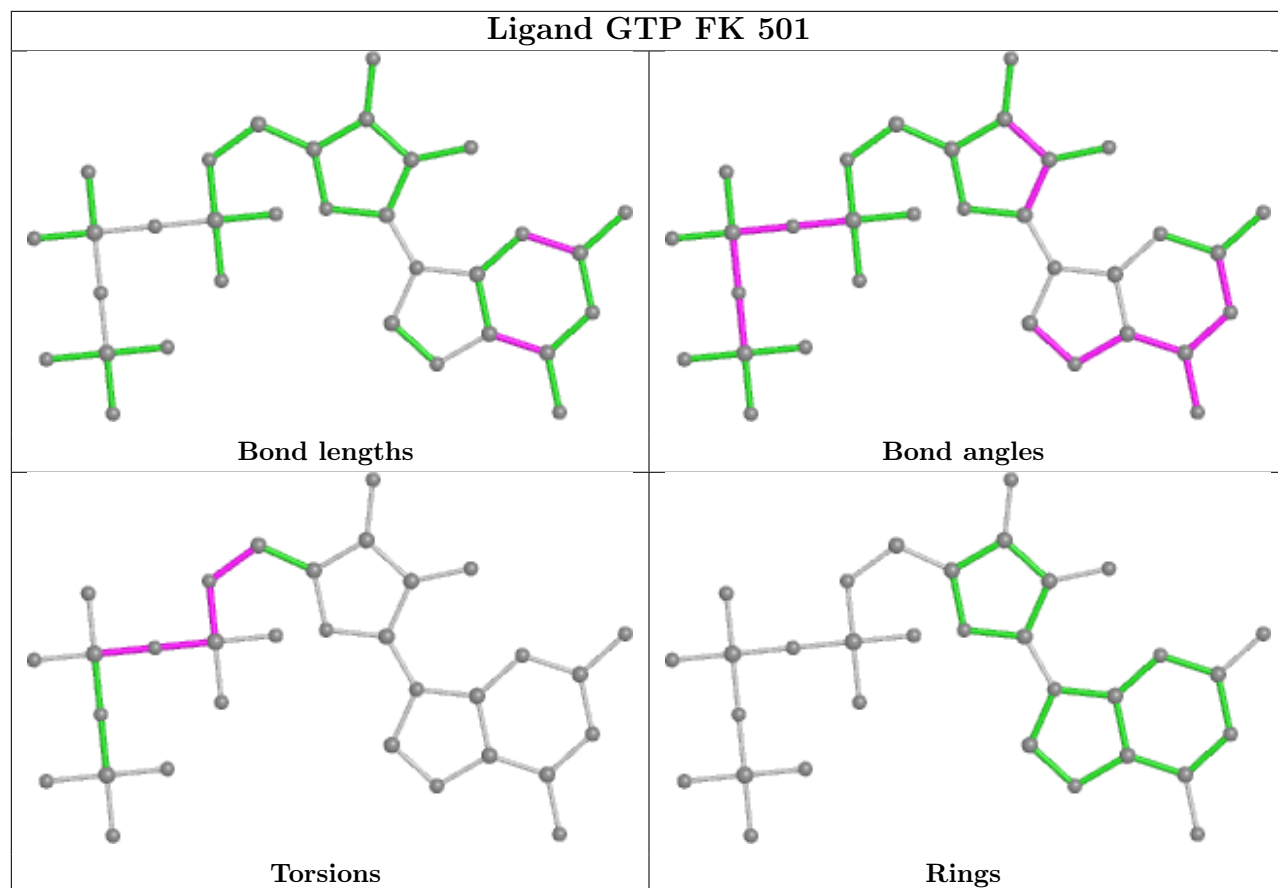
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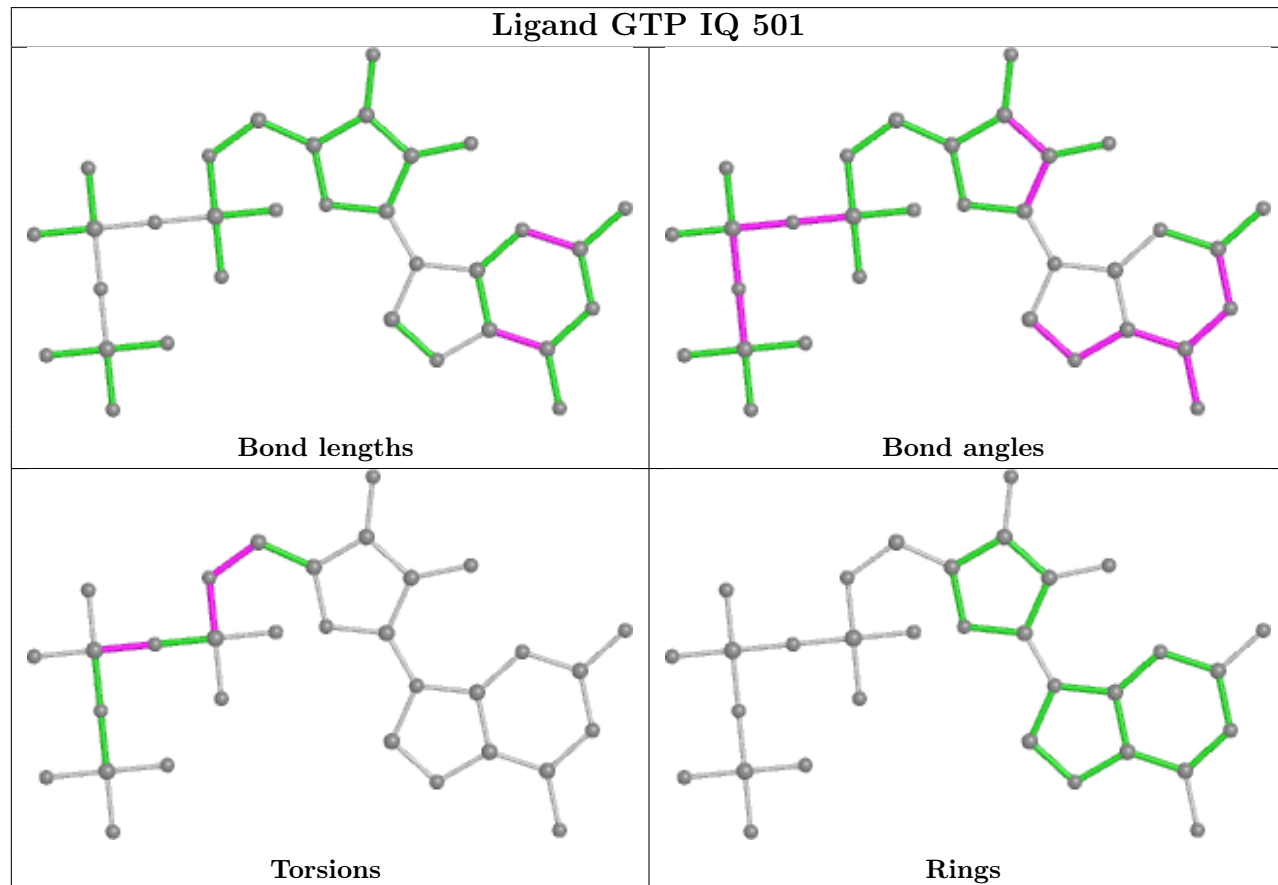
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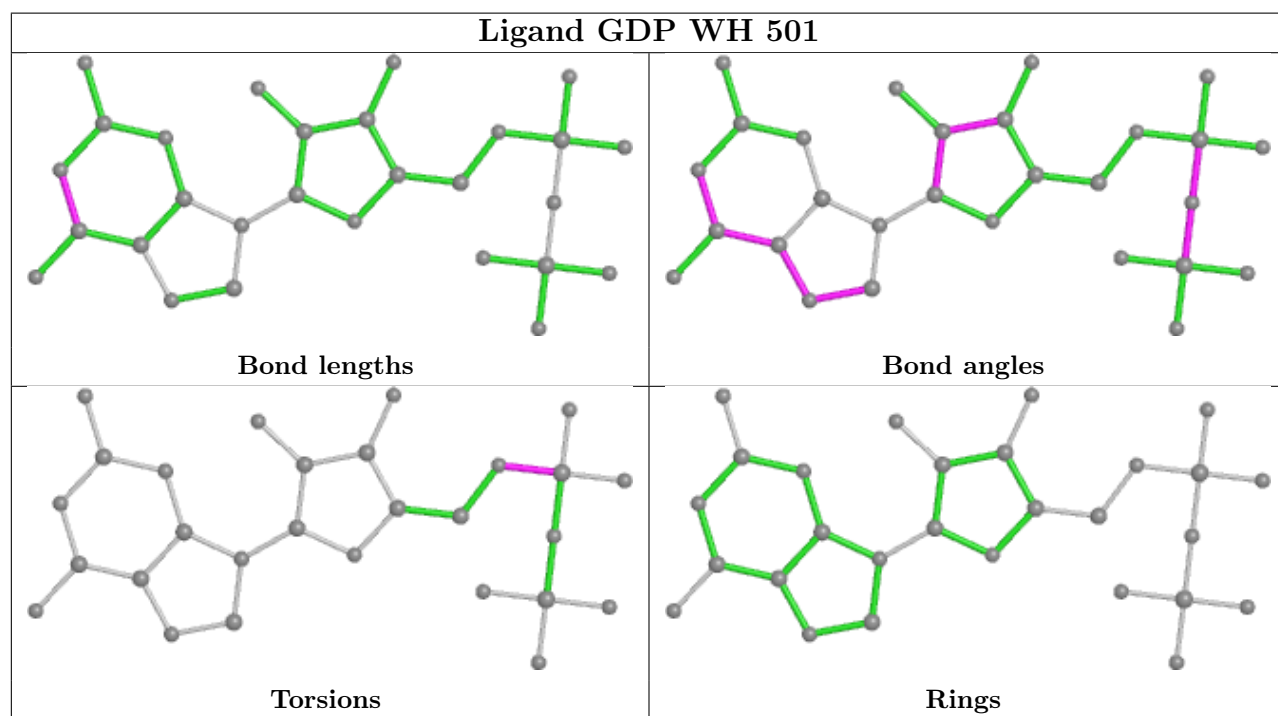
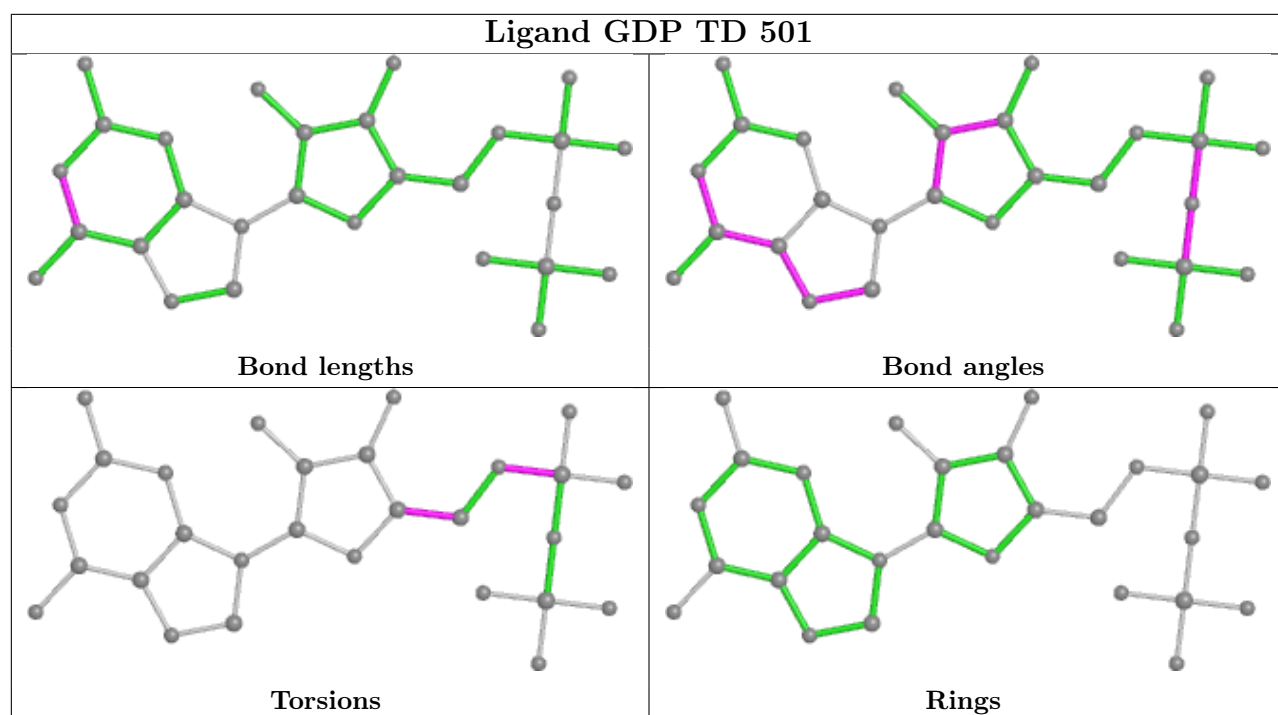


Ligand GTP FK 501

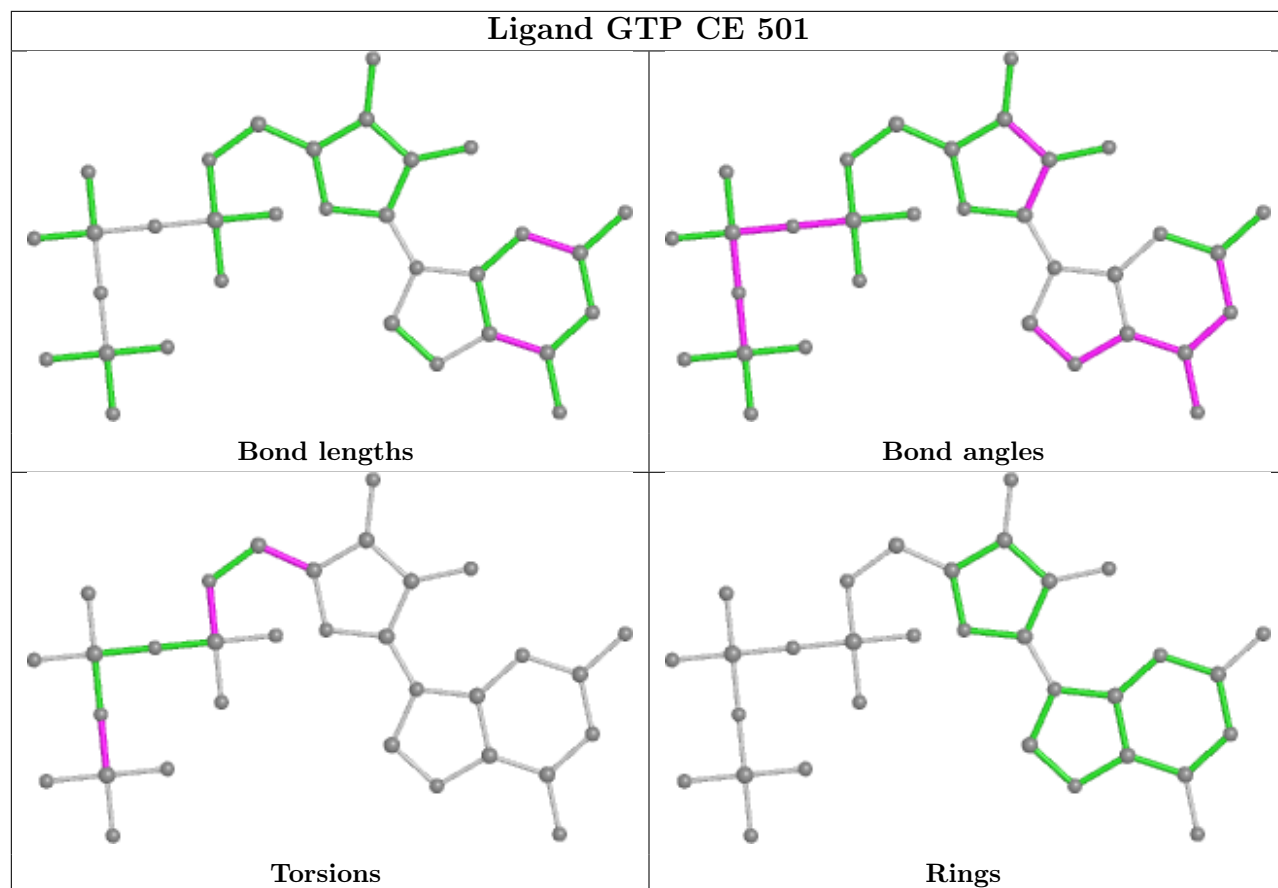


Ligand GTP IQ 501

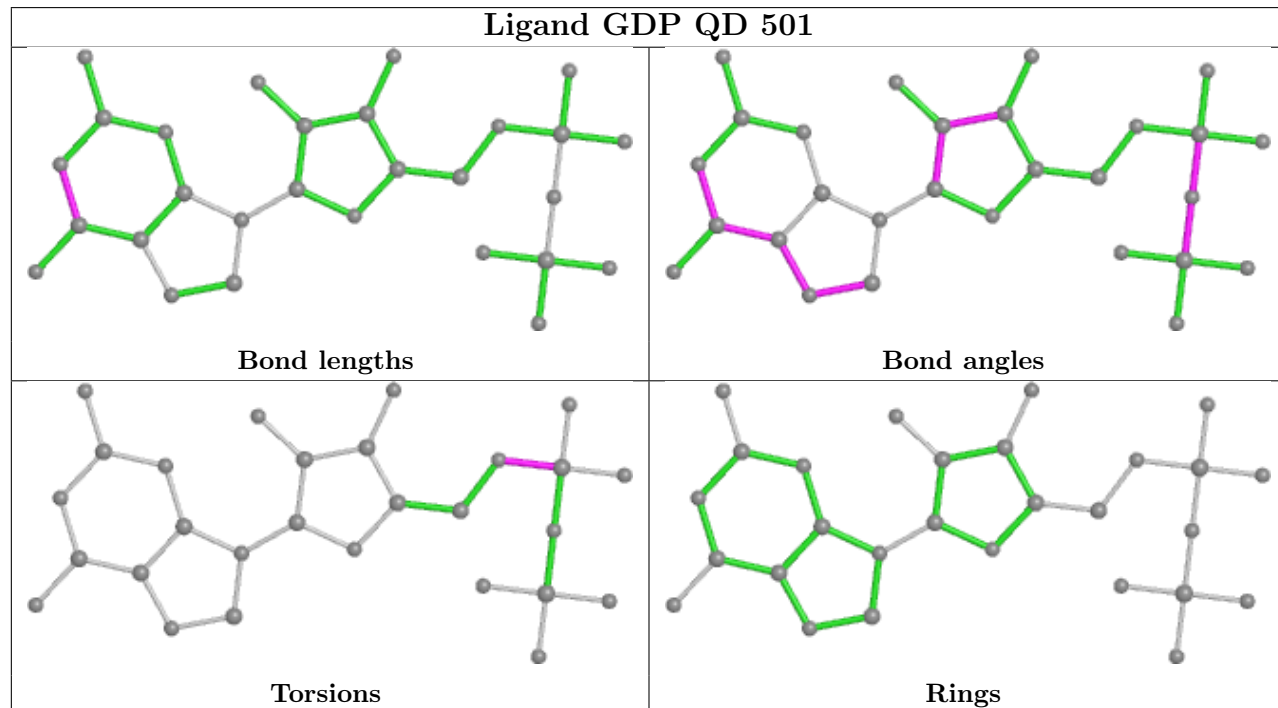




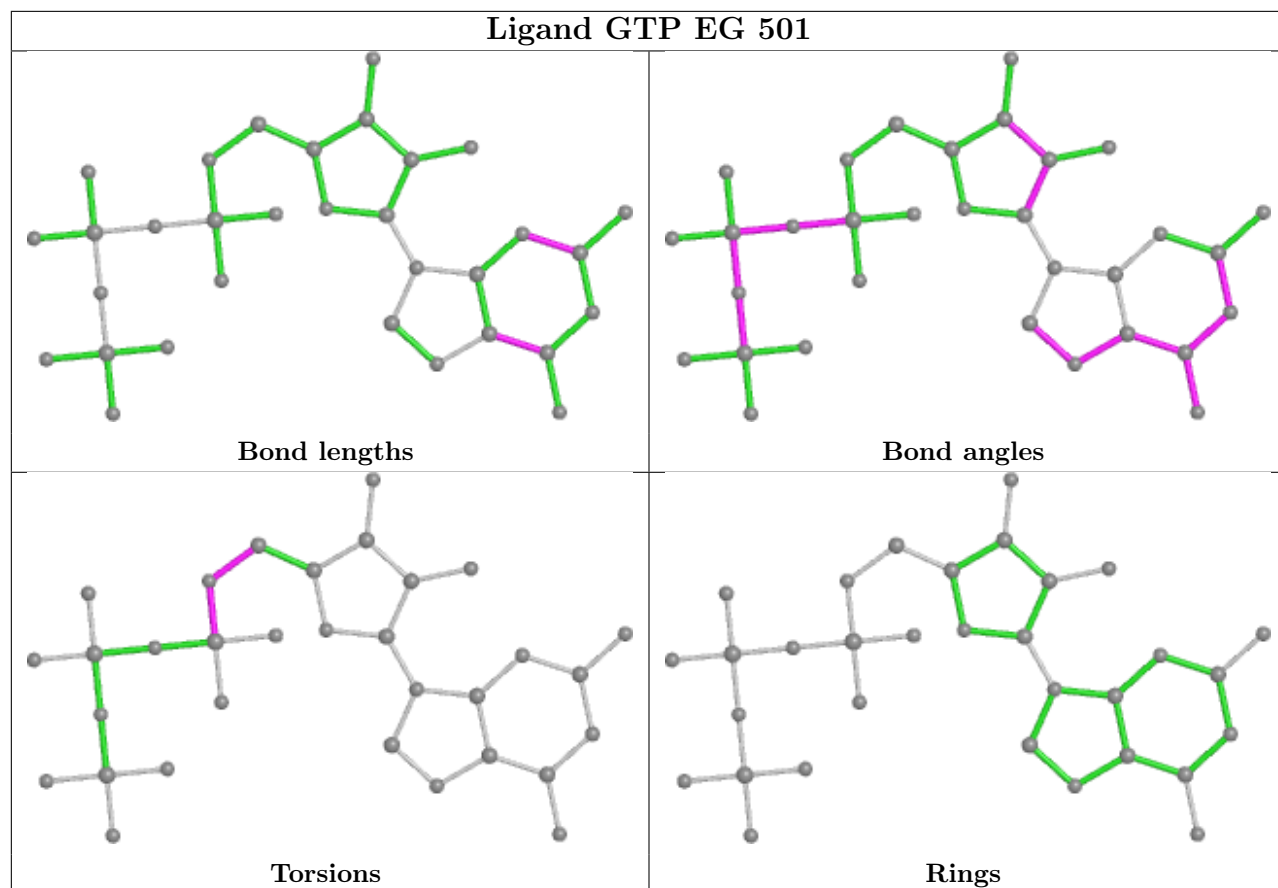
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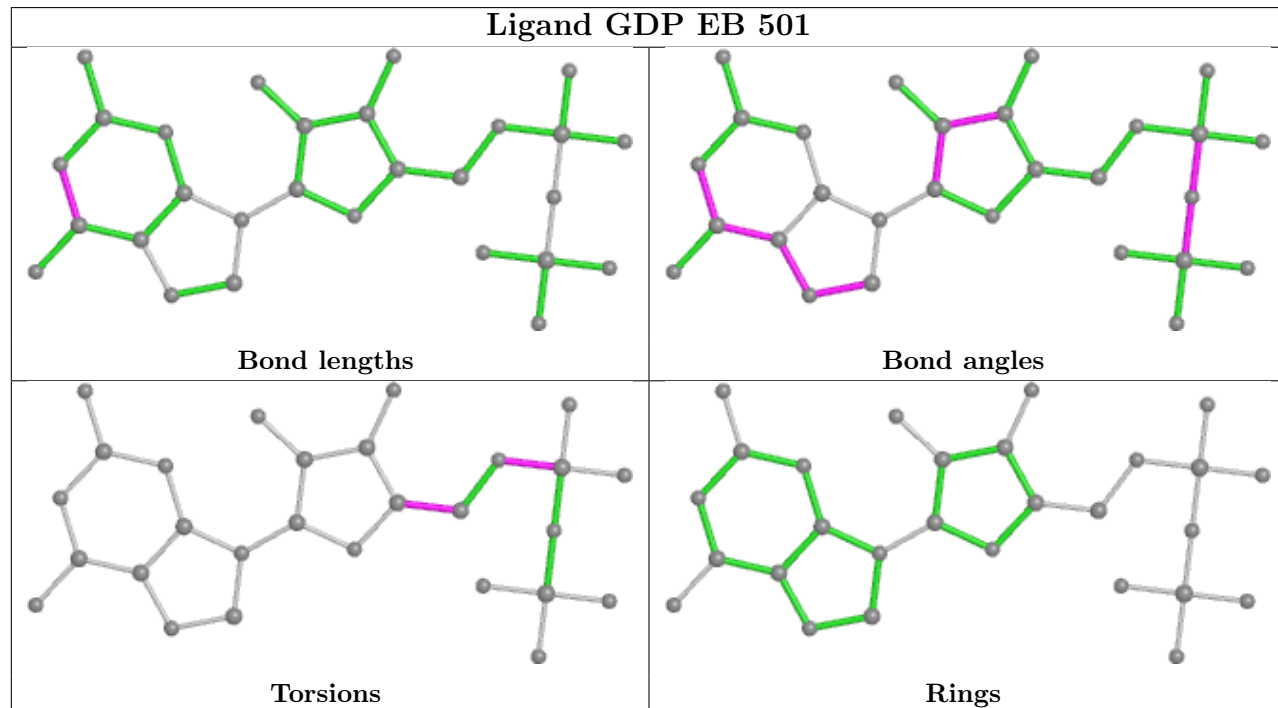
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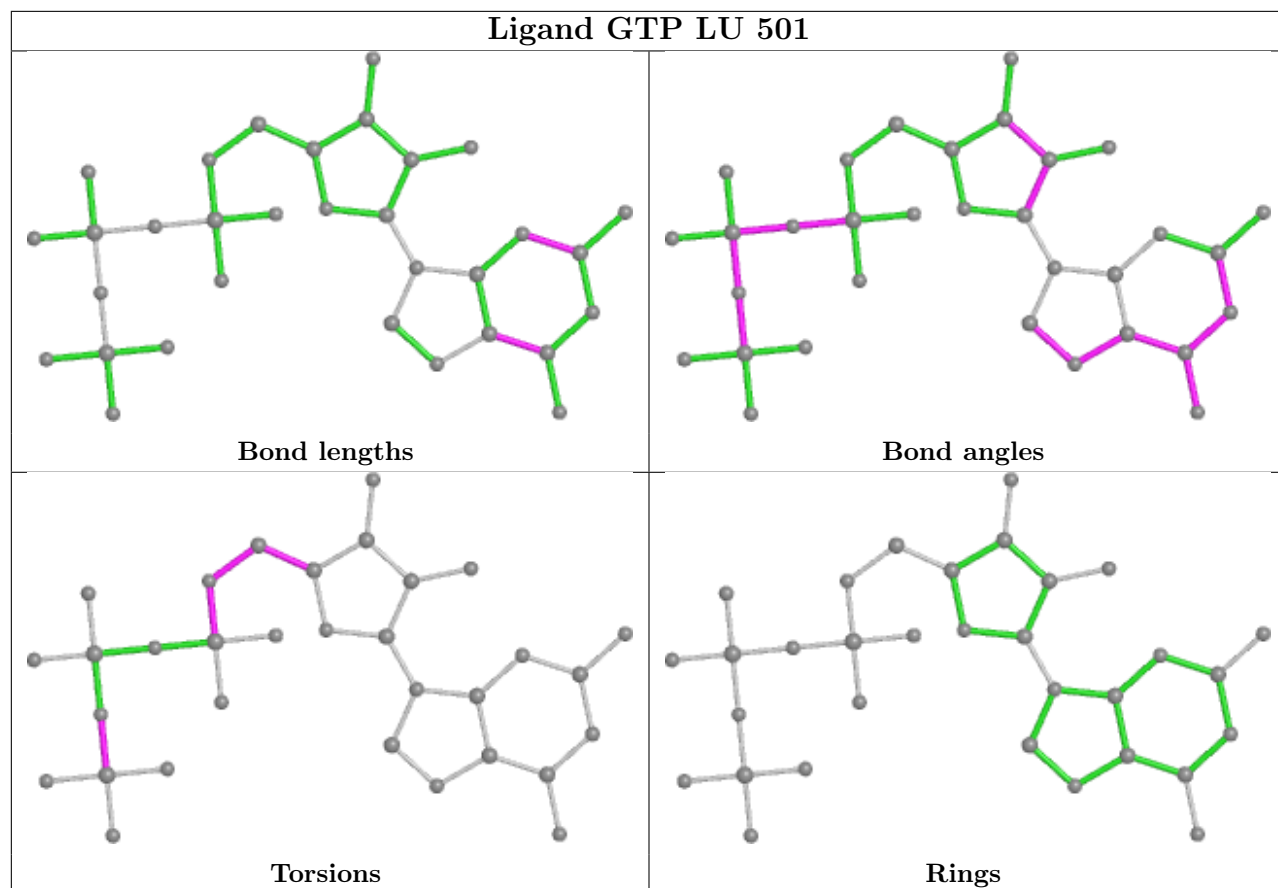
Ligand GTP EG 501



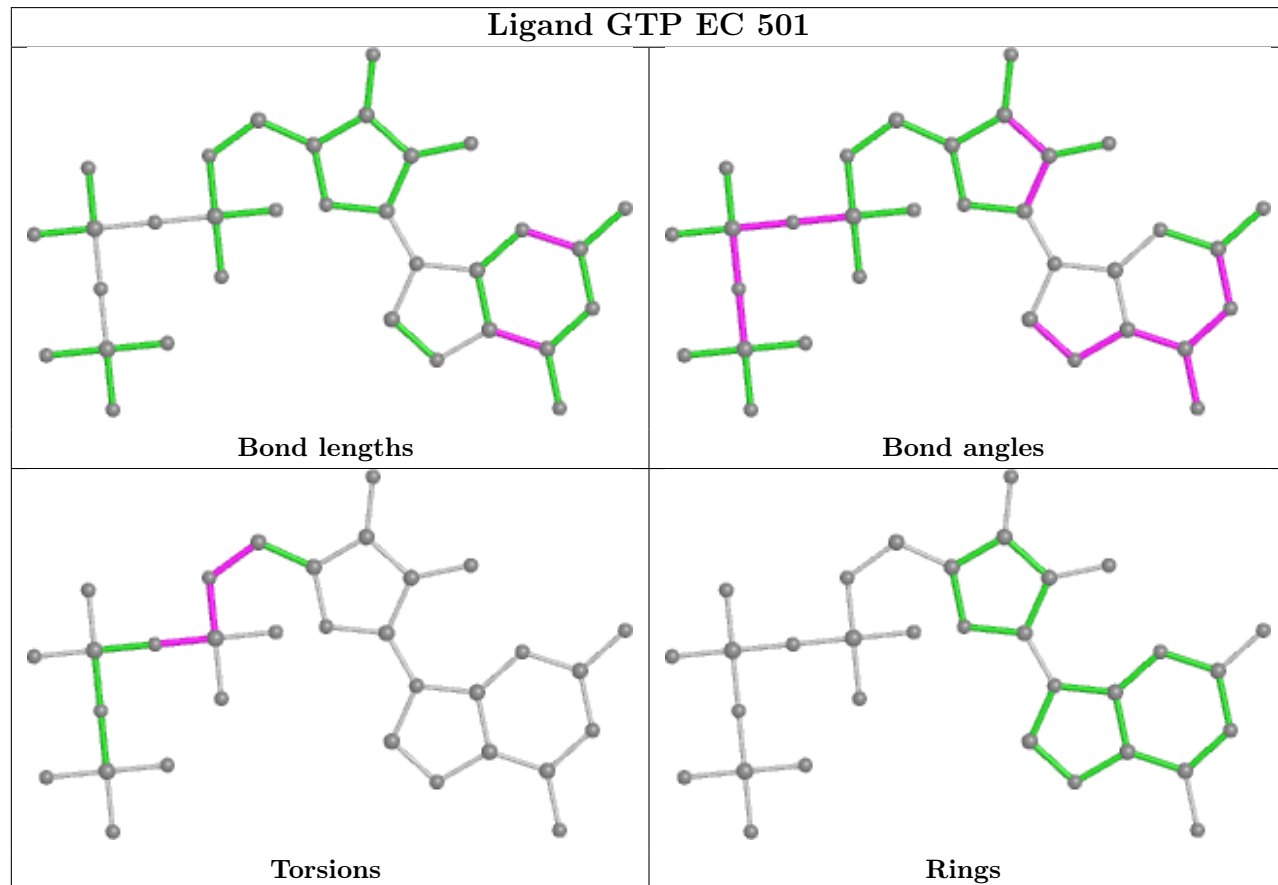
Ligand GDP EB 501



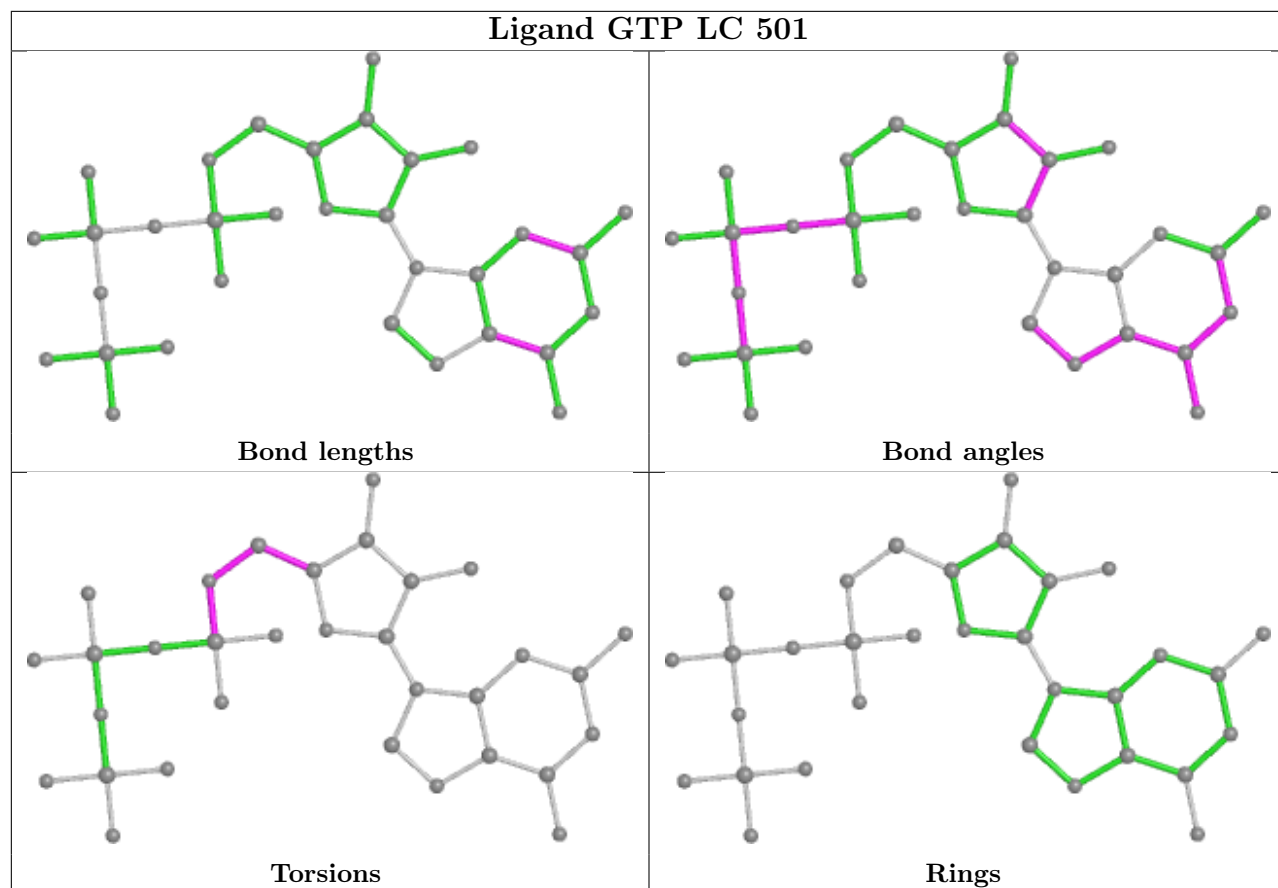
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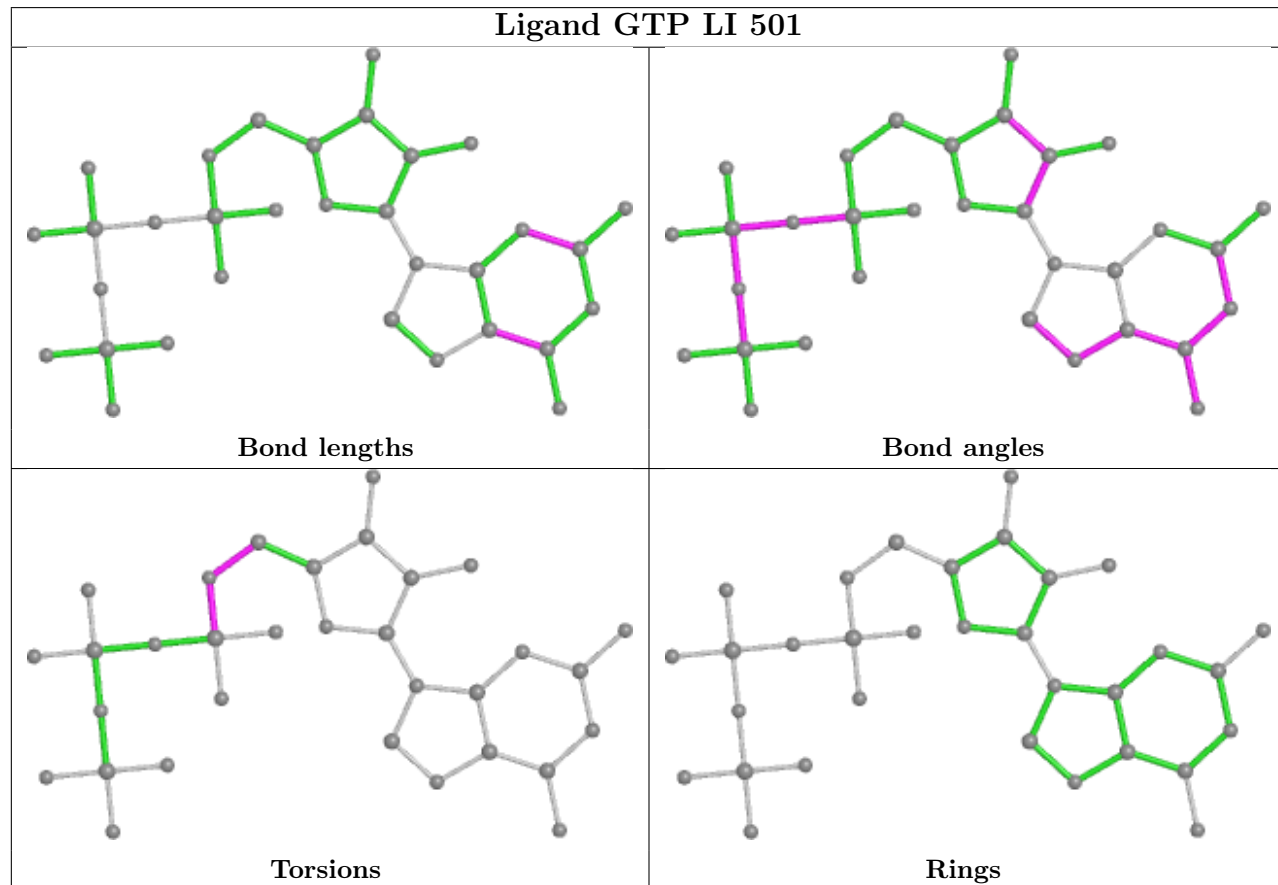
Ligand GTP EC 501



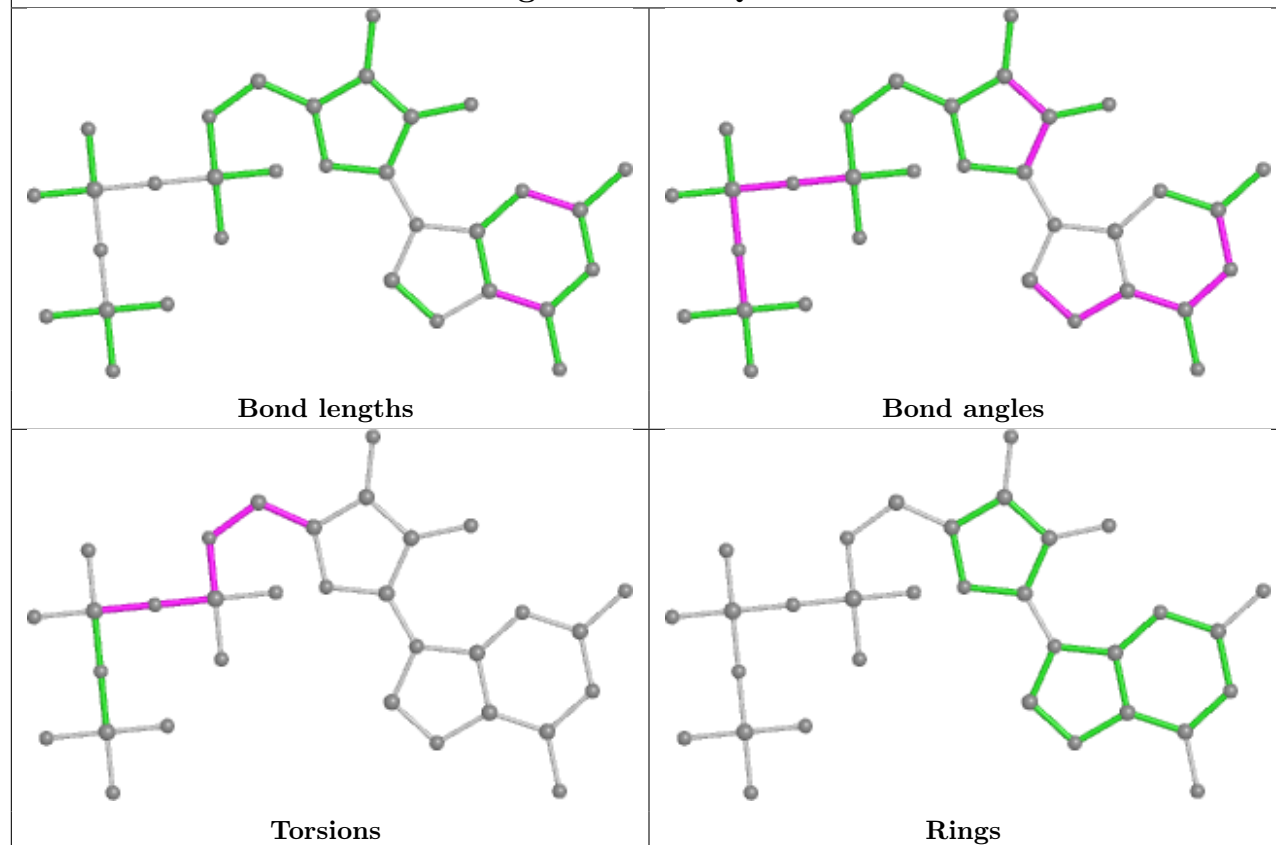
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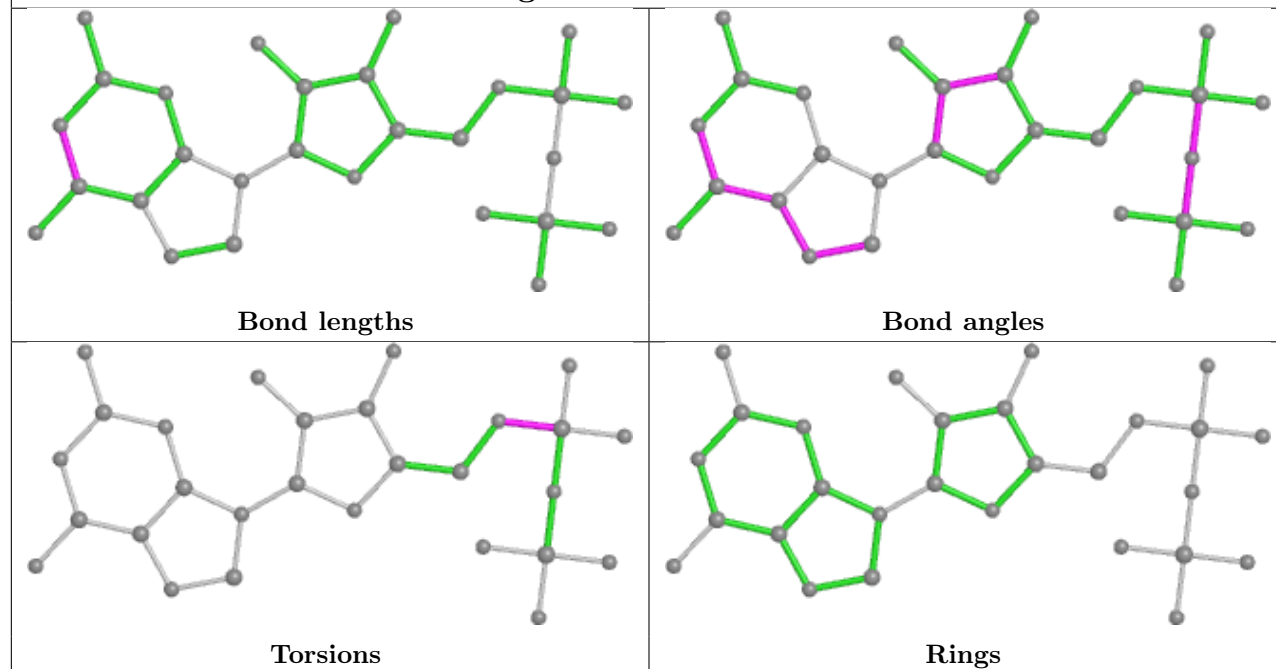
Ligand GTP LI 501



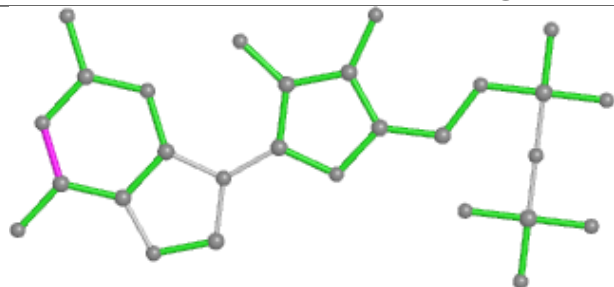
Ligand GTP PQ 501



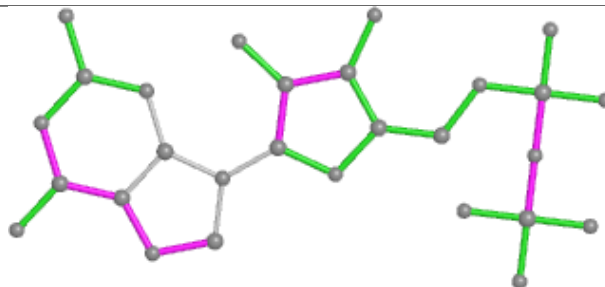
Ligand GDP AT 501



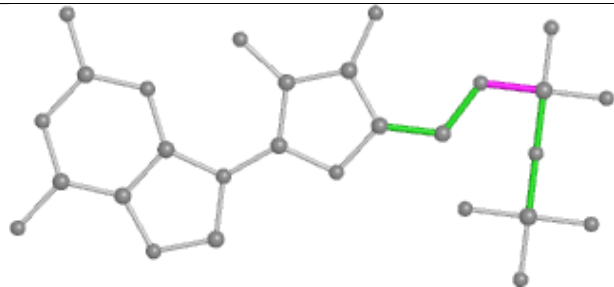
Ligand GDP OH 501



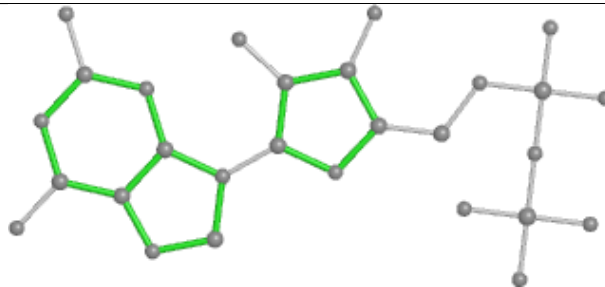
Bond lengths



Bond angles

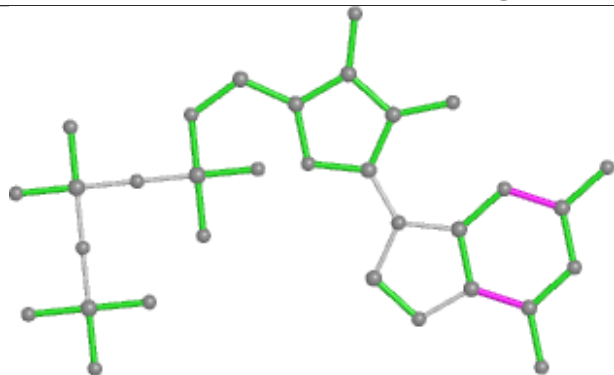


Torsions

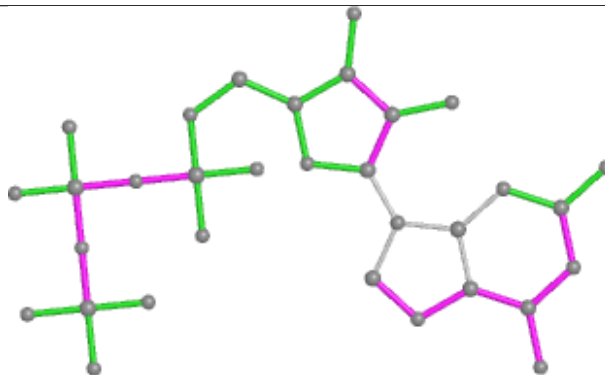


Rings

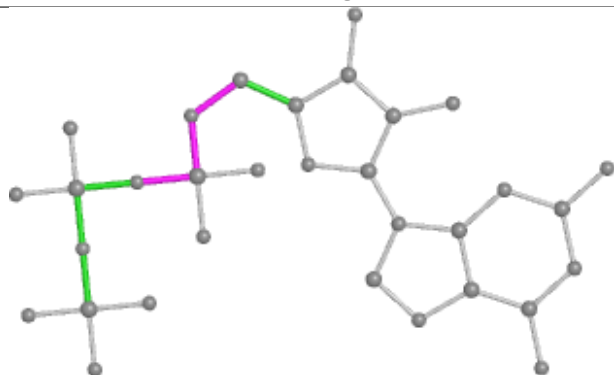
Ligand GTP MA 501



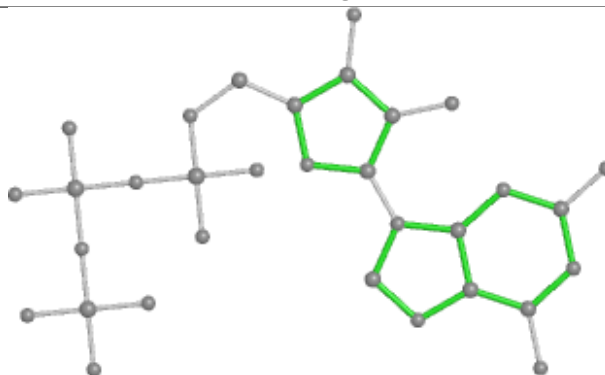
Bond lengths



Bond angles

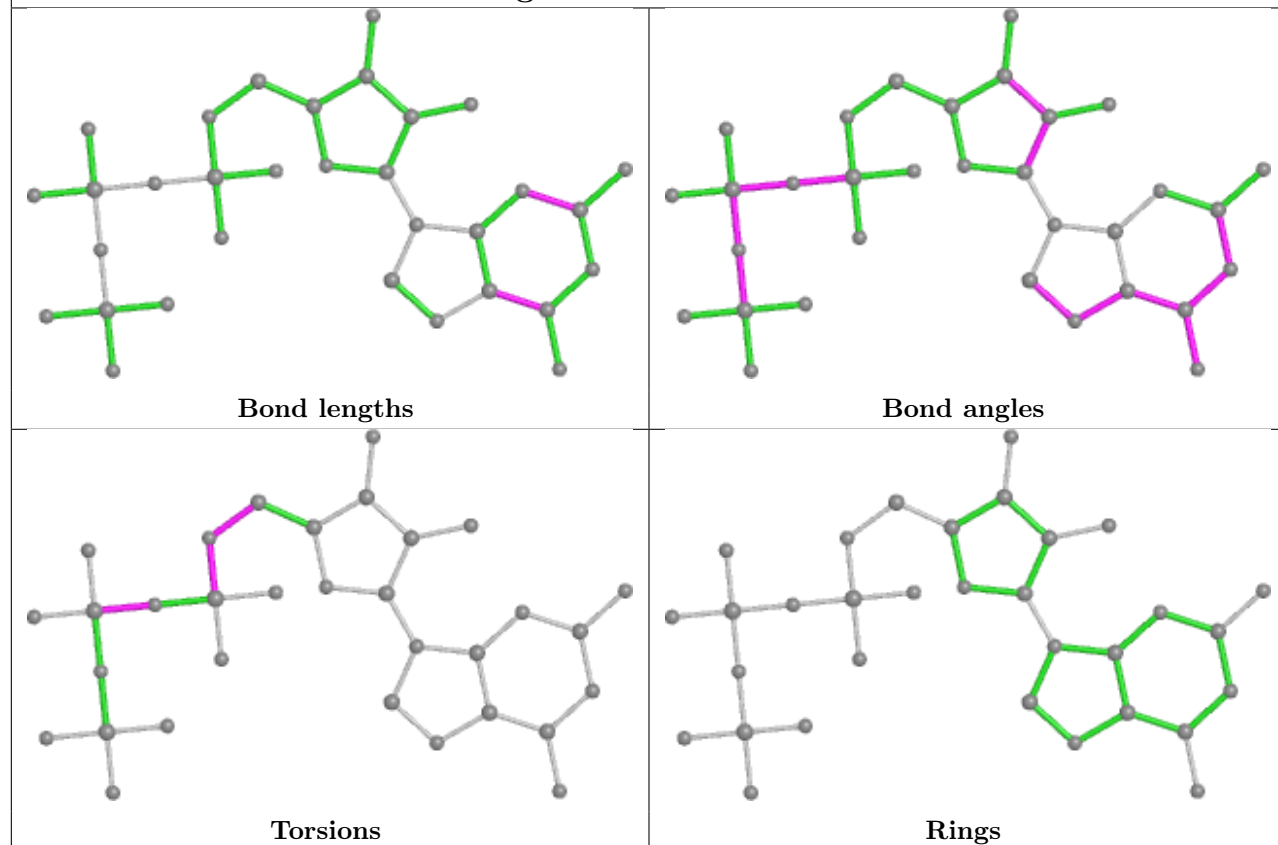


Torsions

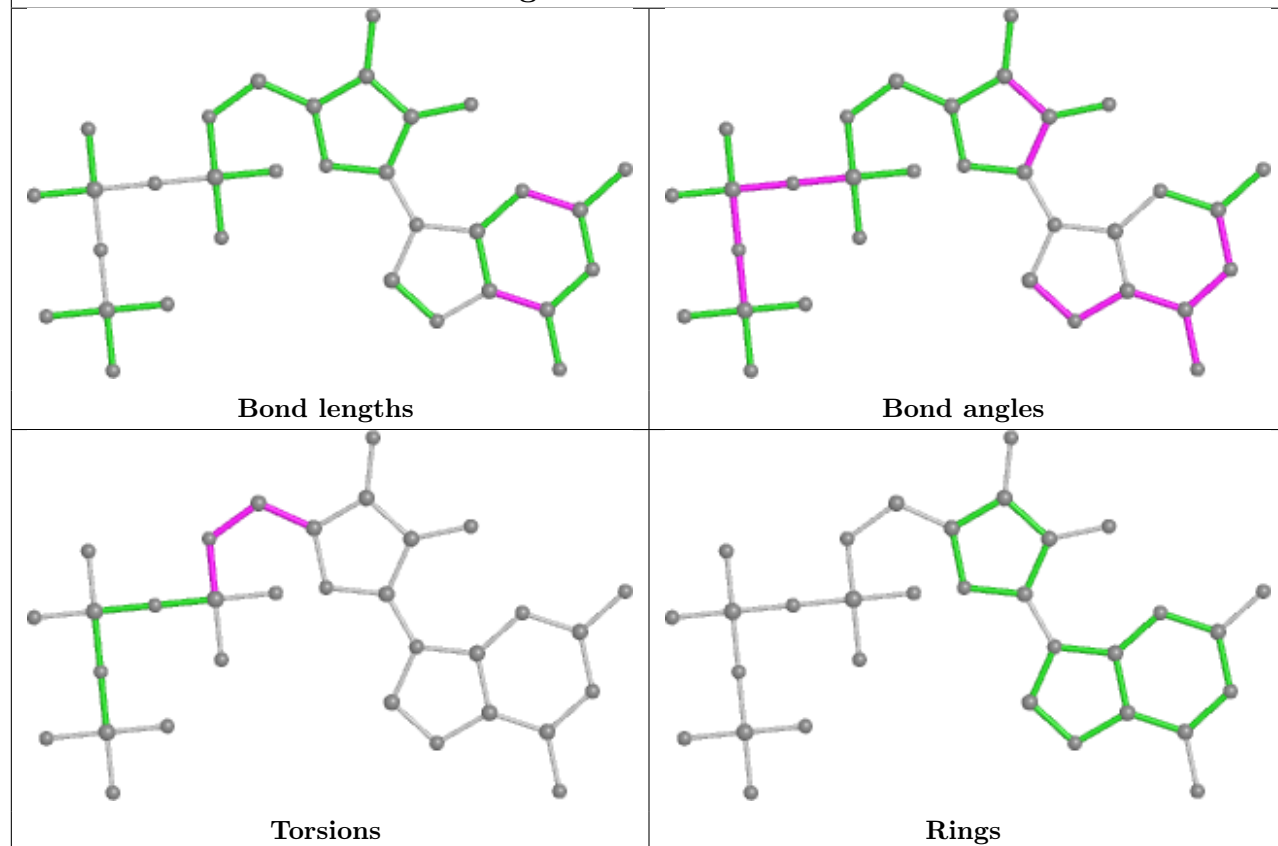


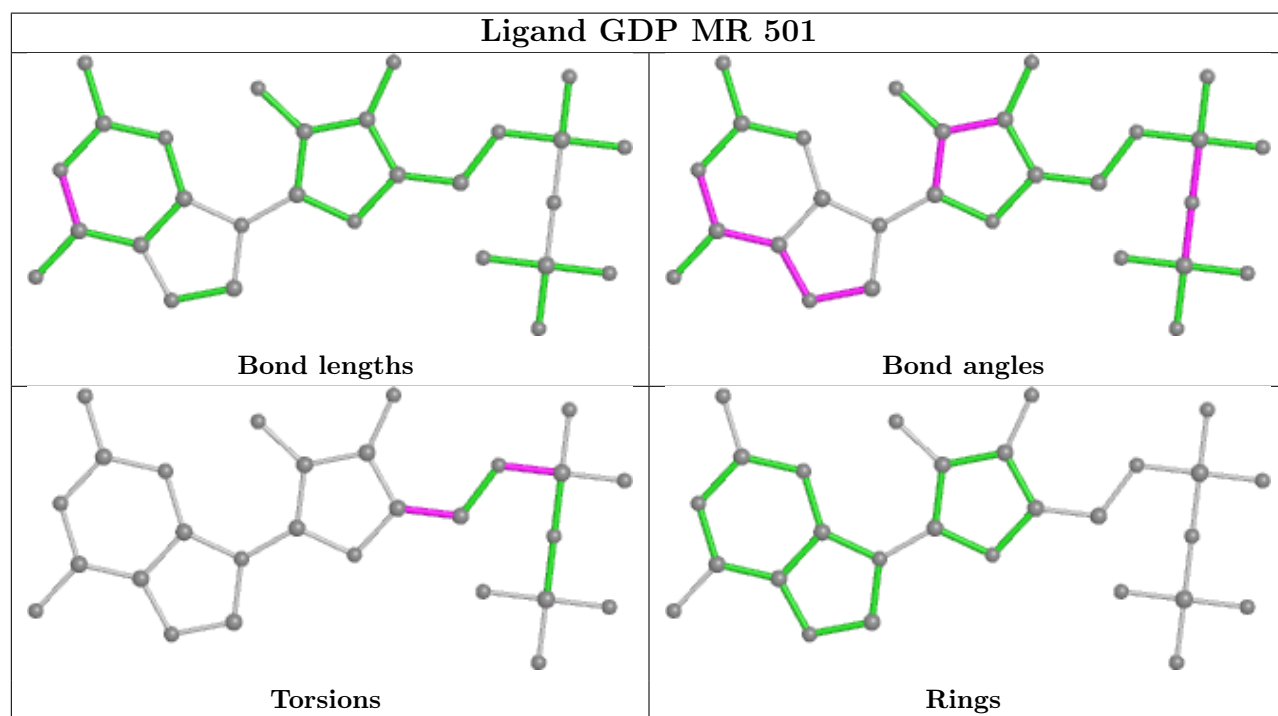
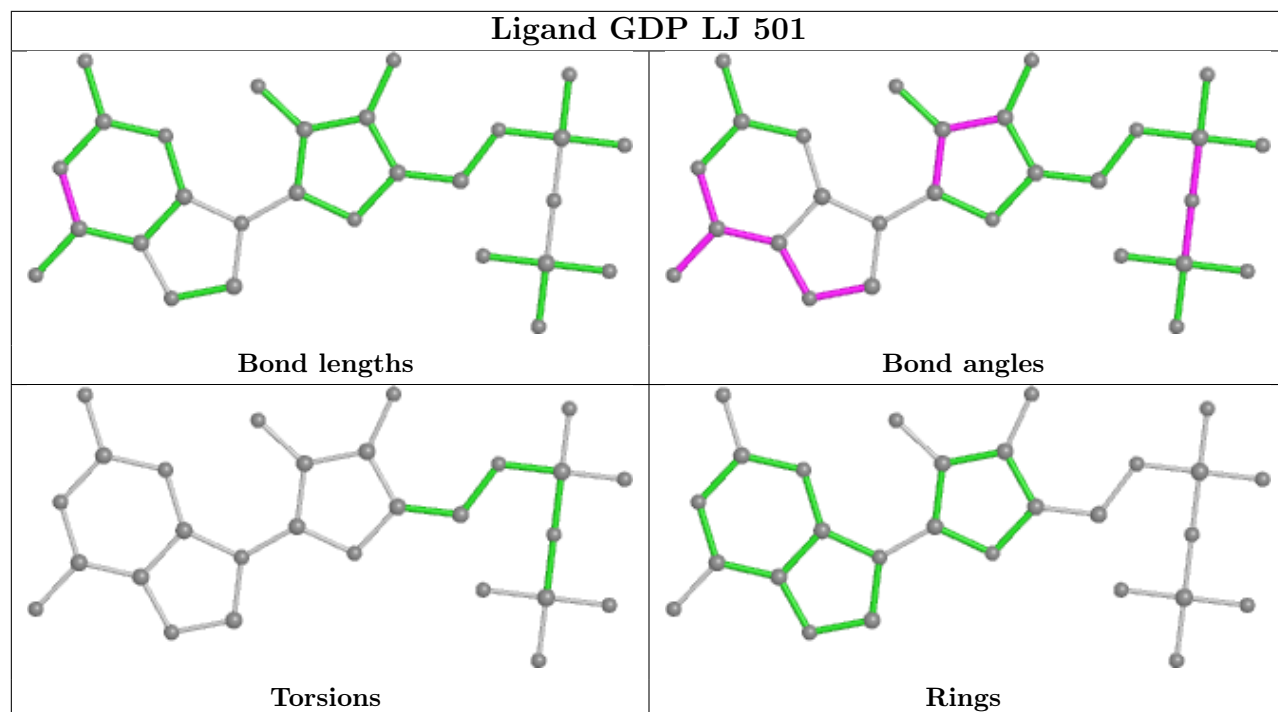
Rings

Ligand GTP GR 502

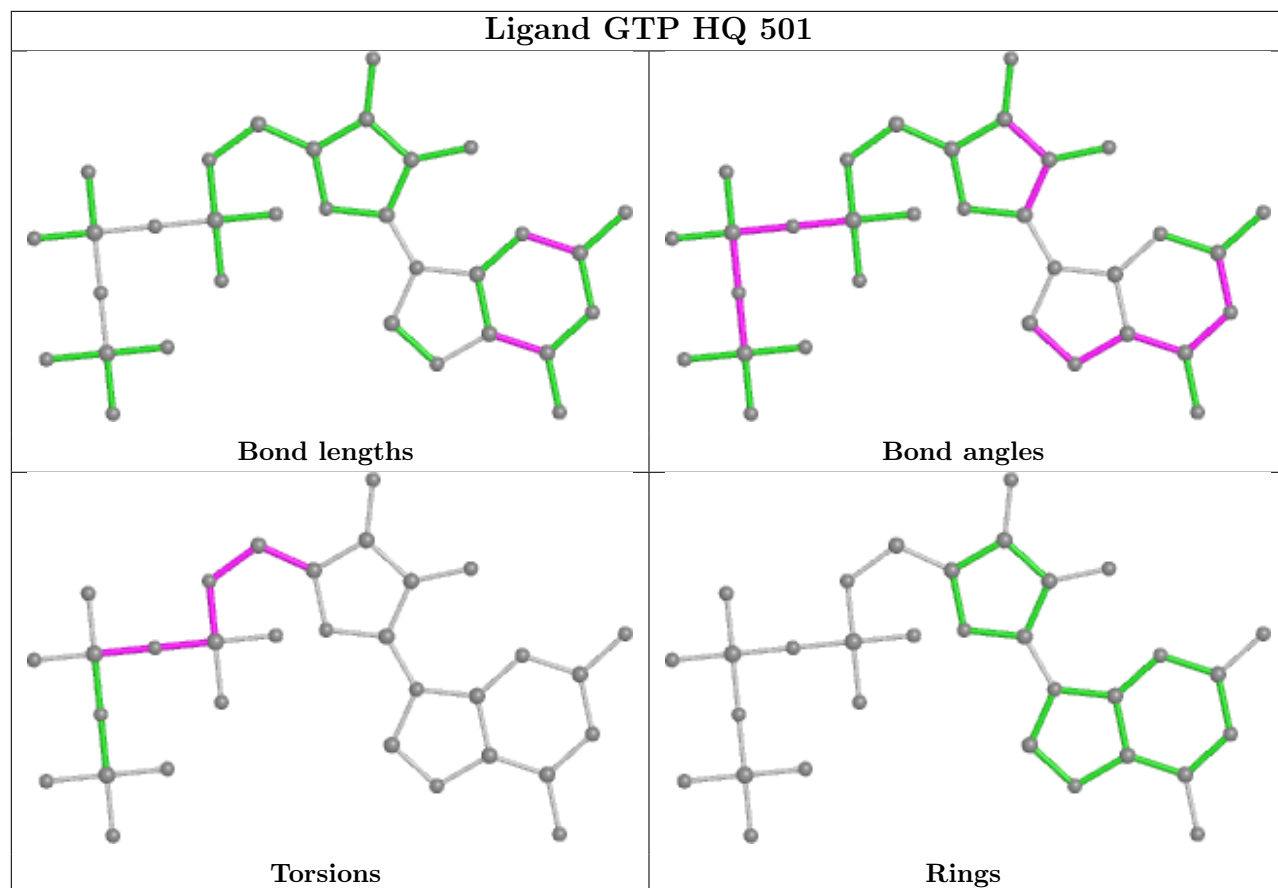


Ligand GTP LO 501

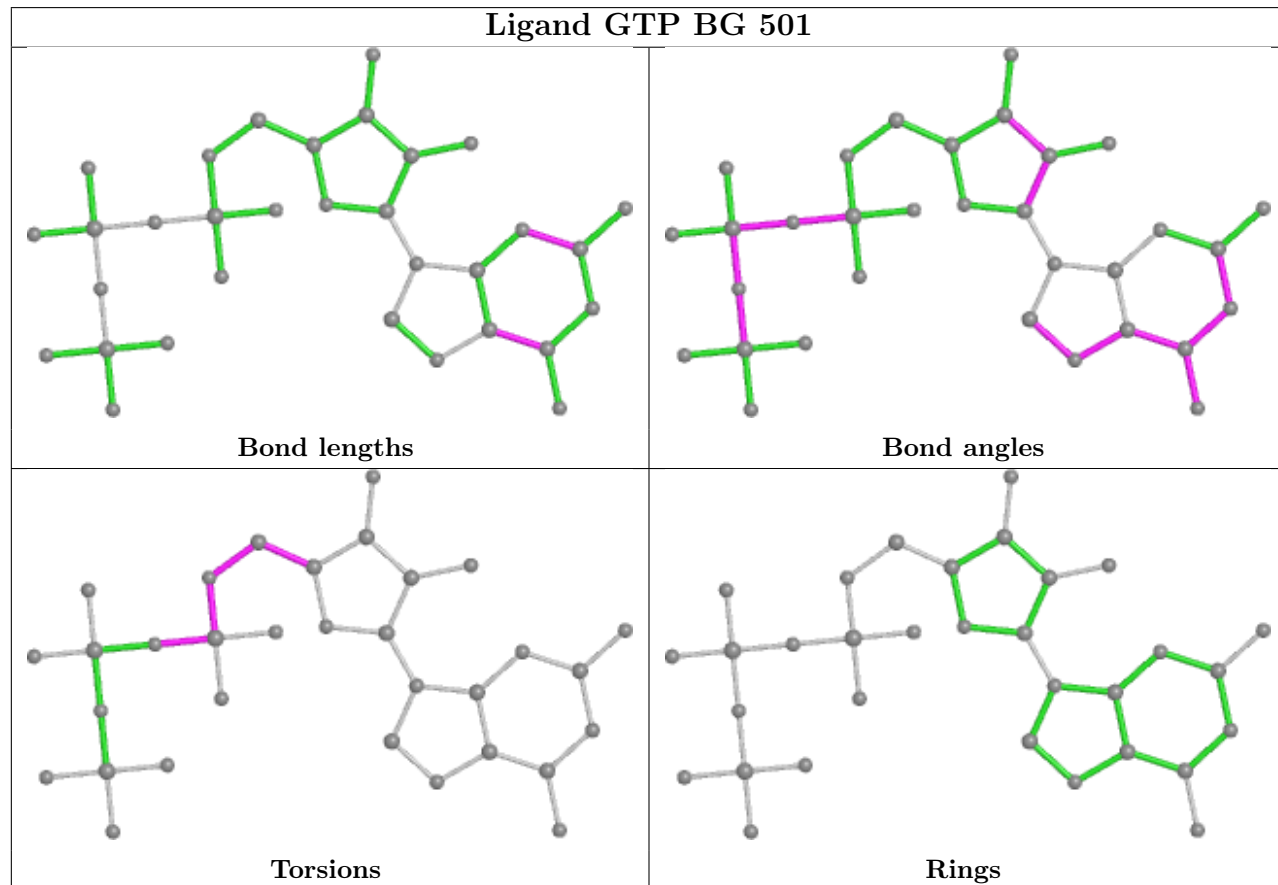


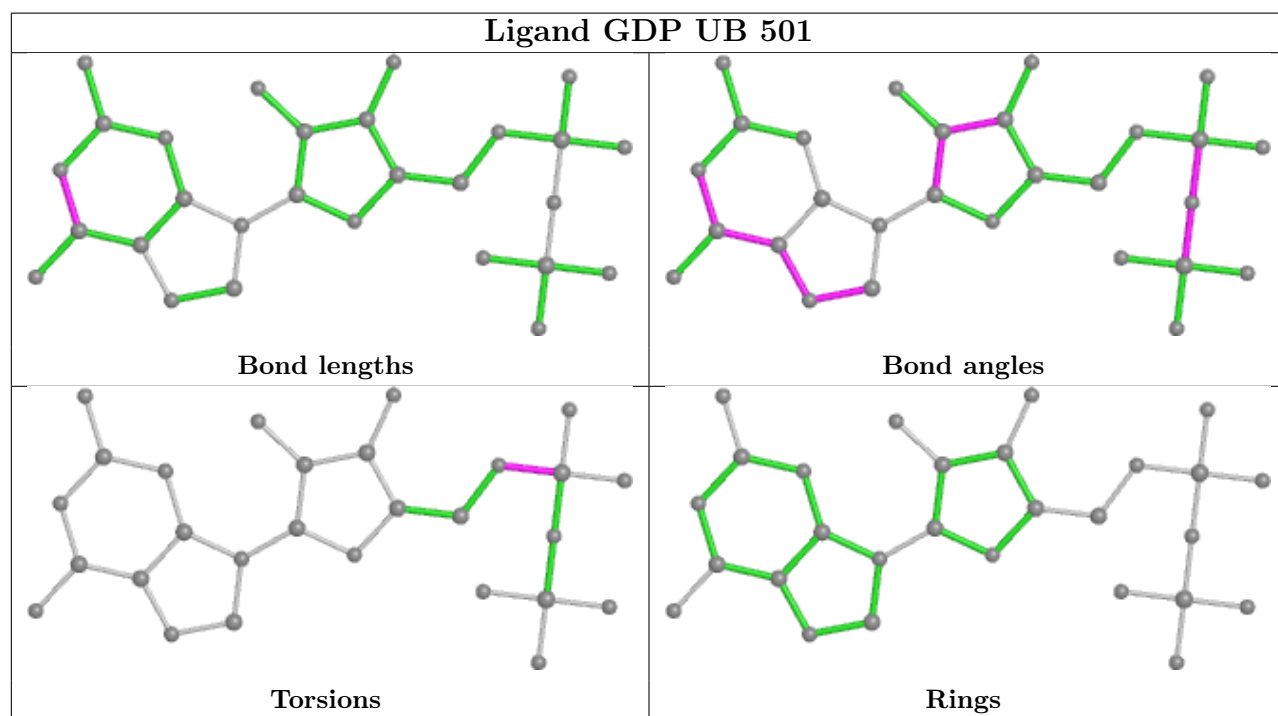
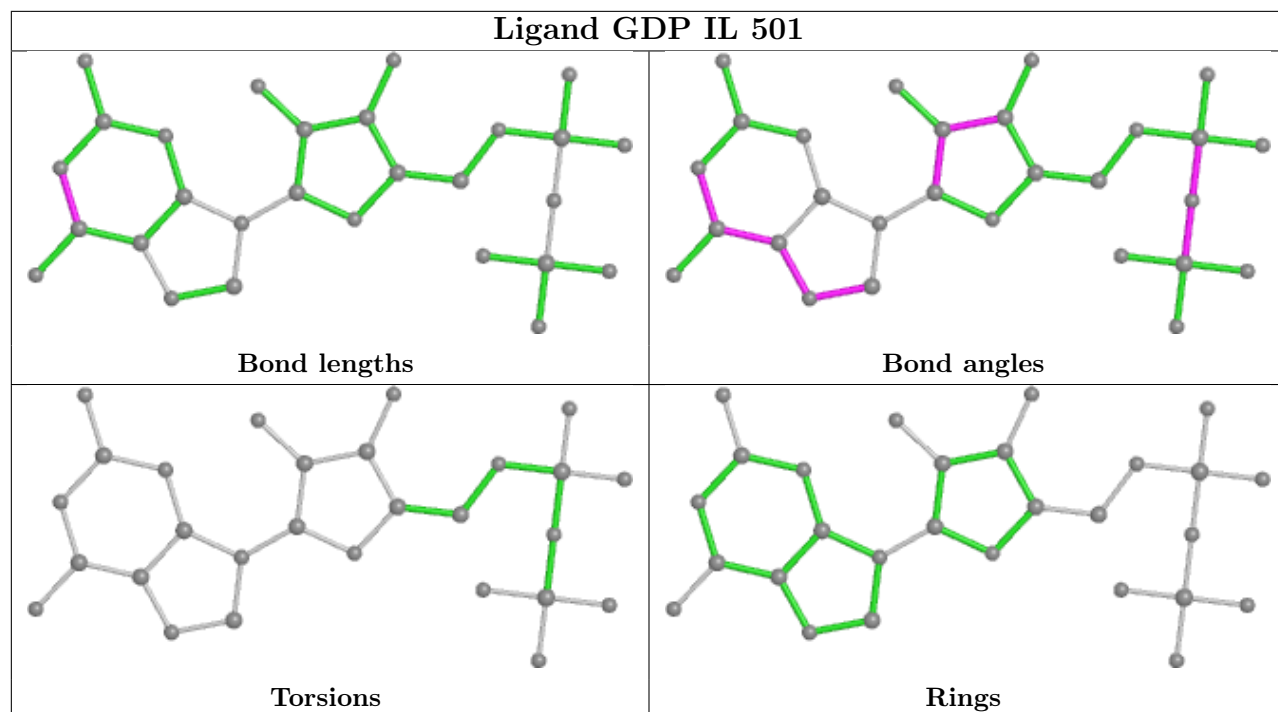


Ligand GTP HQ 501

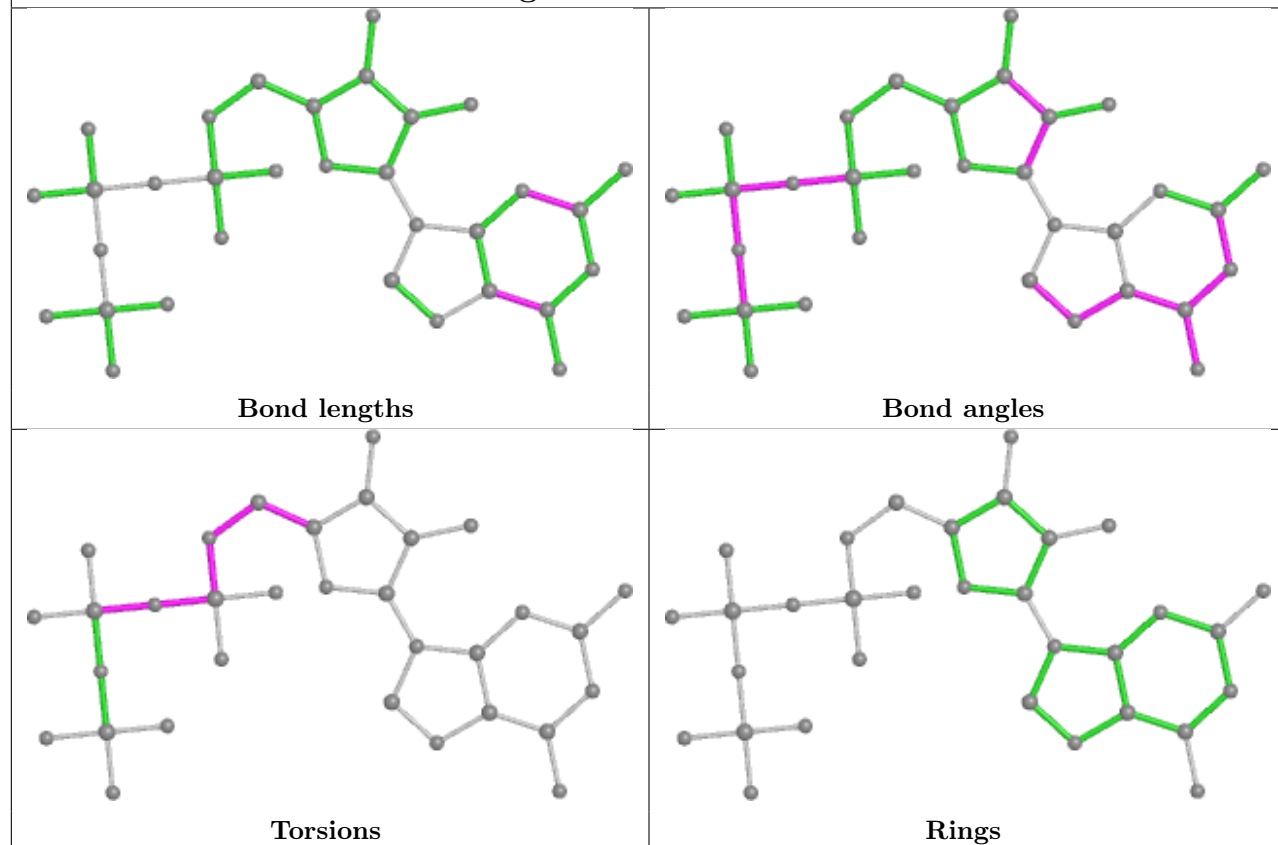


Ligand GTP BG 501

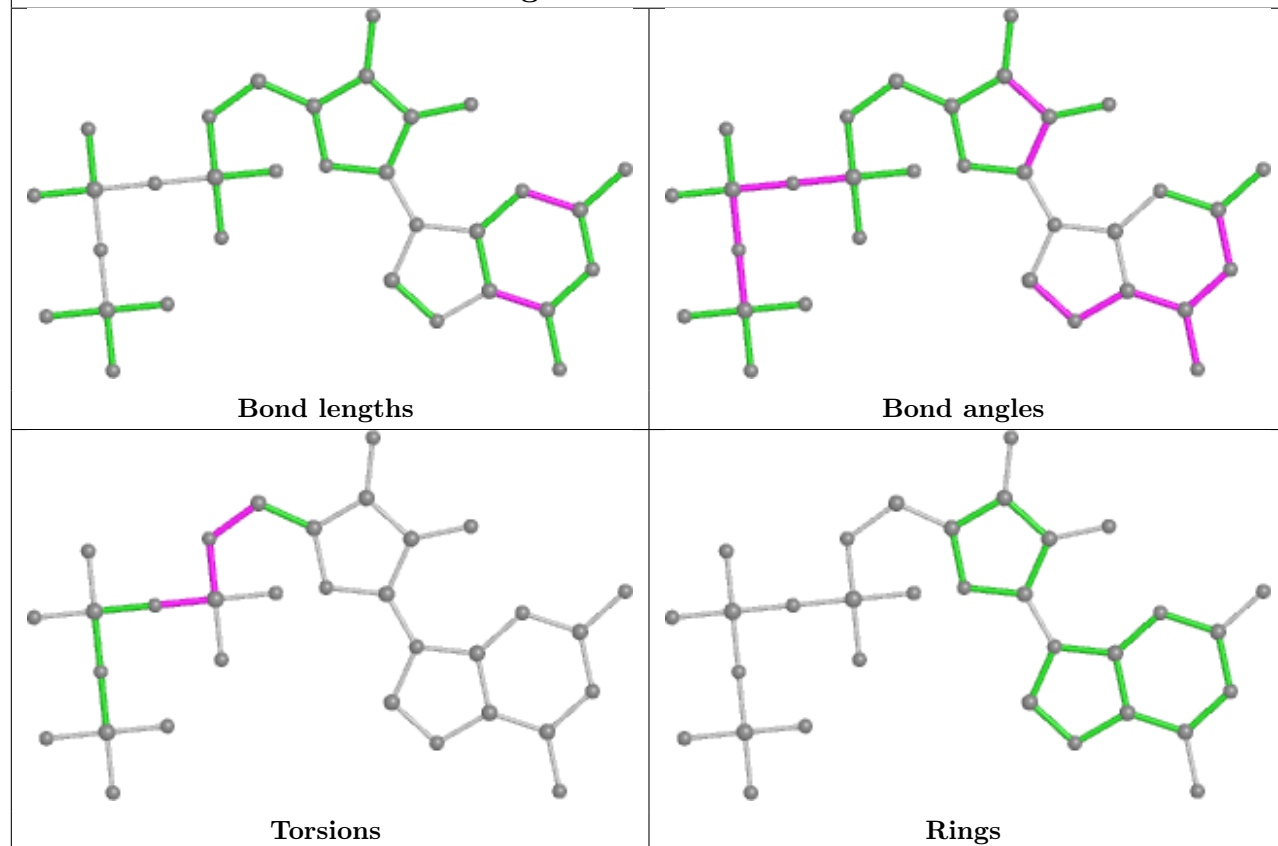




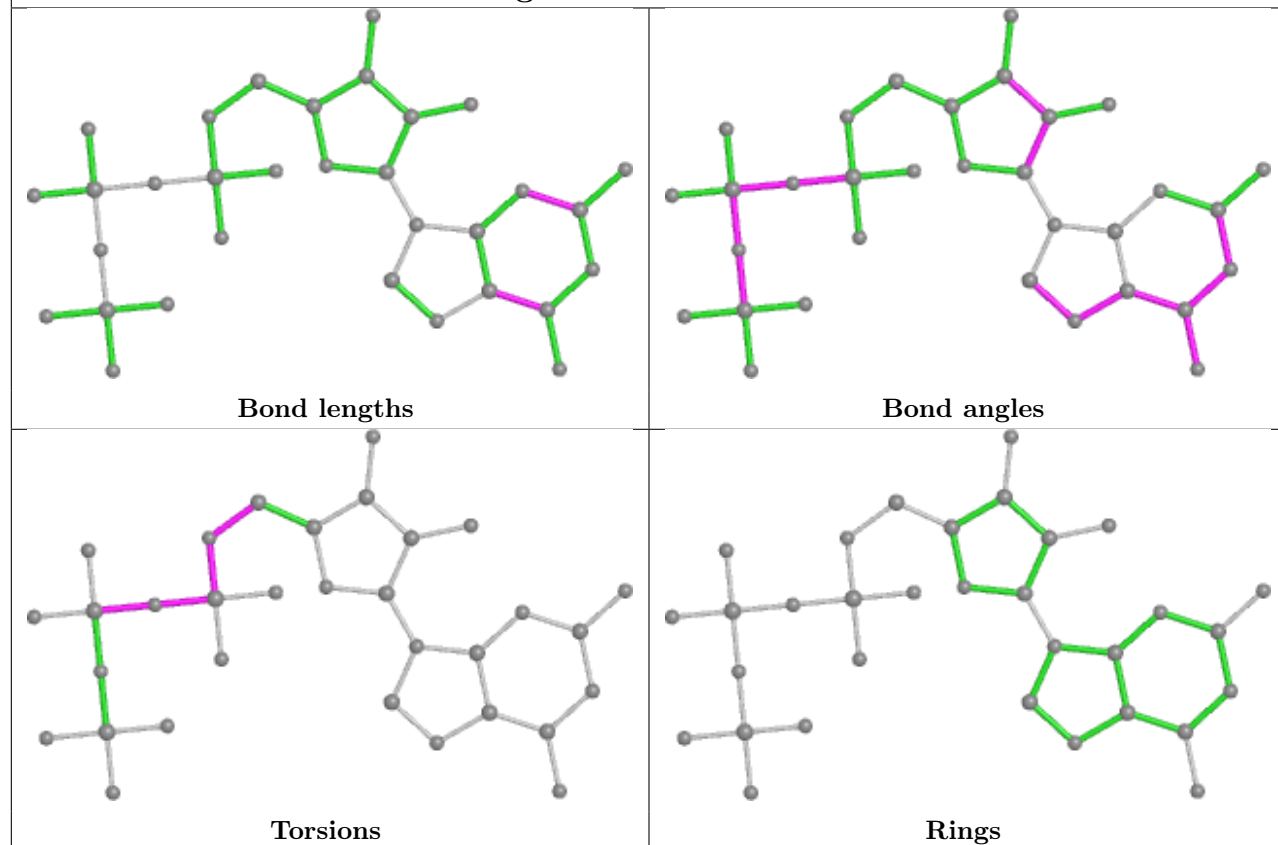
Ligand GTP TE 501



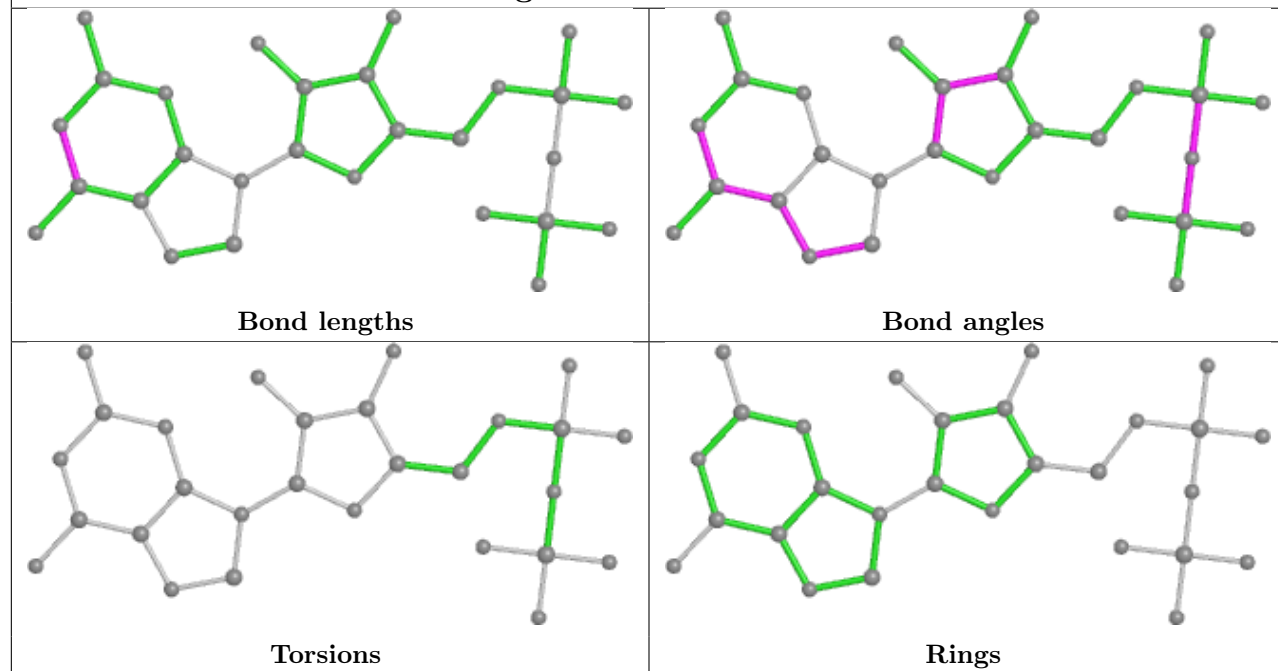
Ligand GTP JR 502

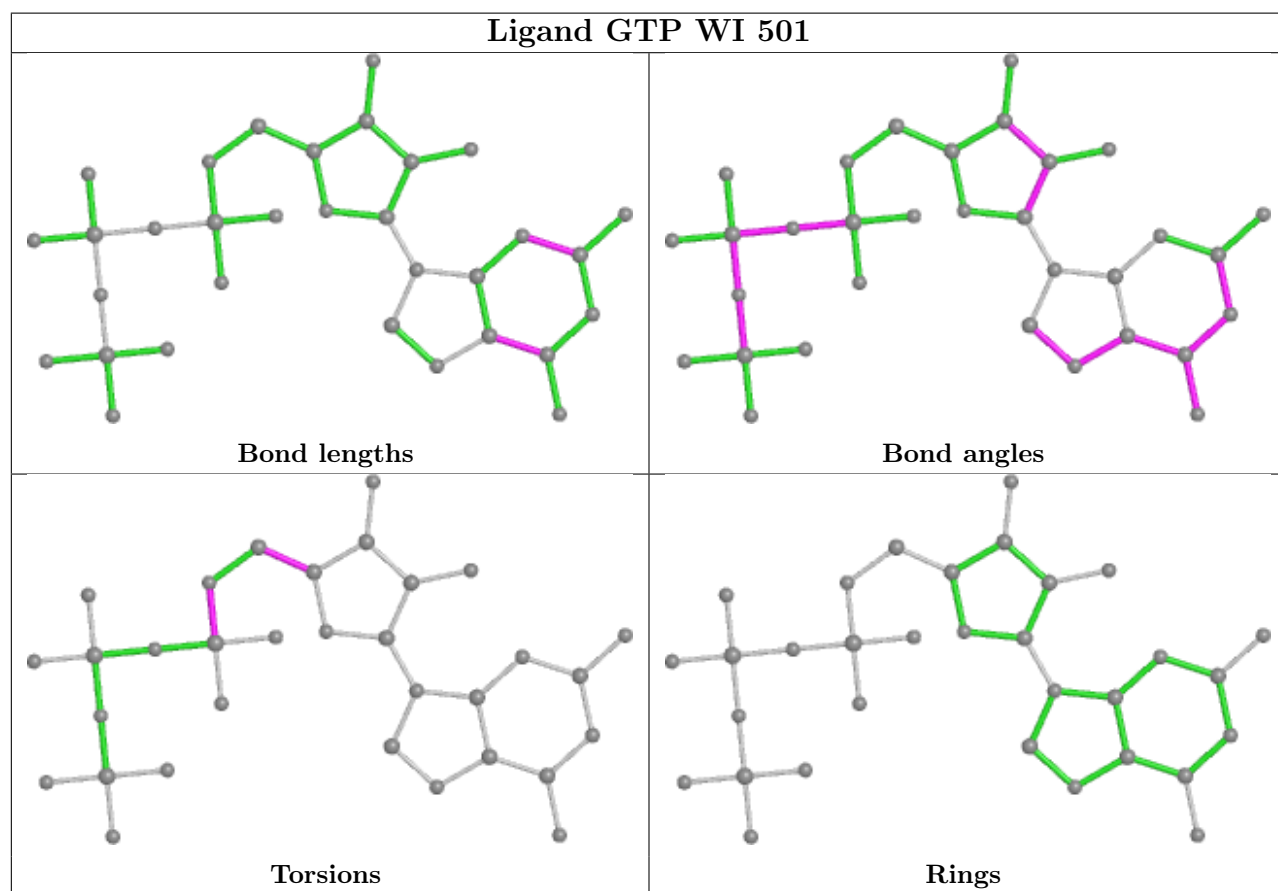
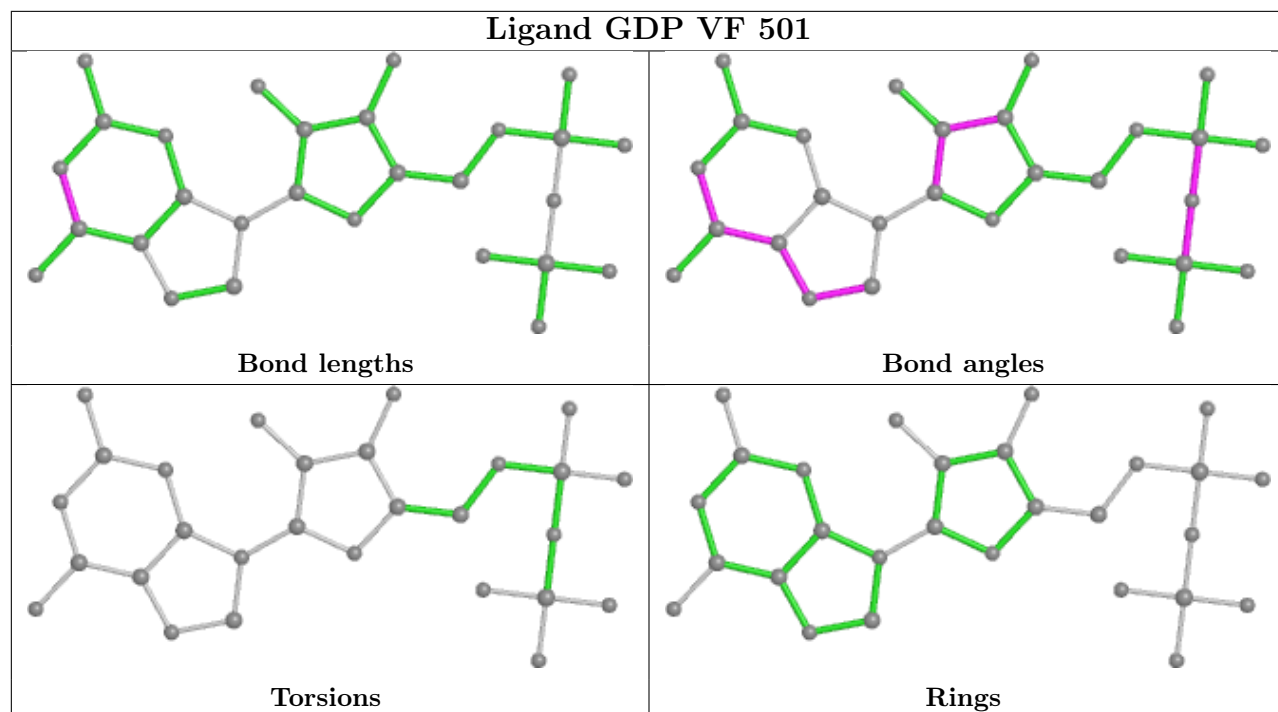


Ligand GTP KU 501

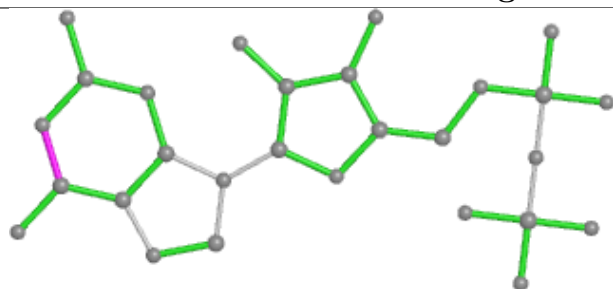


Ligand GDP VV 501

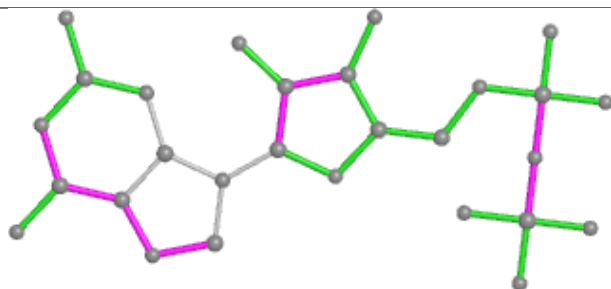




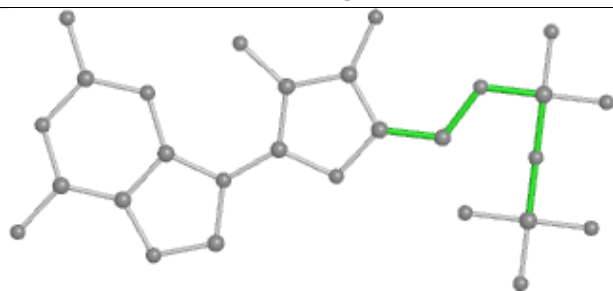
Ligand GDP PH 501



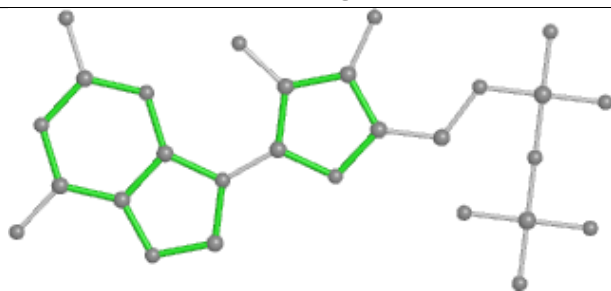
Bond lengths



Bond angles

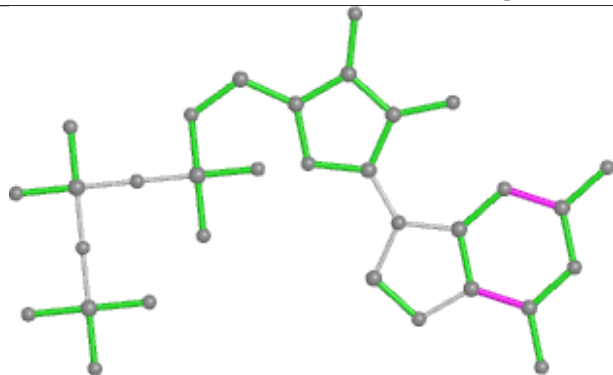


Torsions

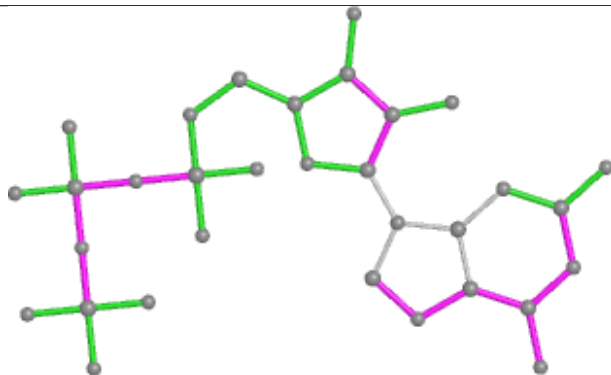


Rings

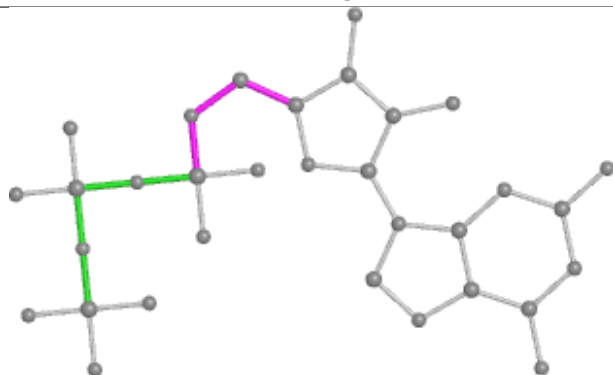
Ligand GTP UO 501



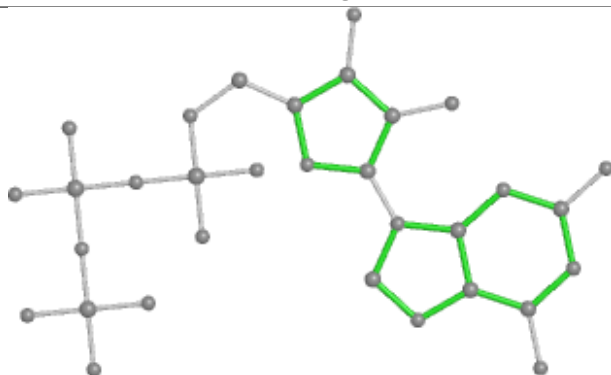
Bond lengths



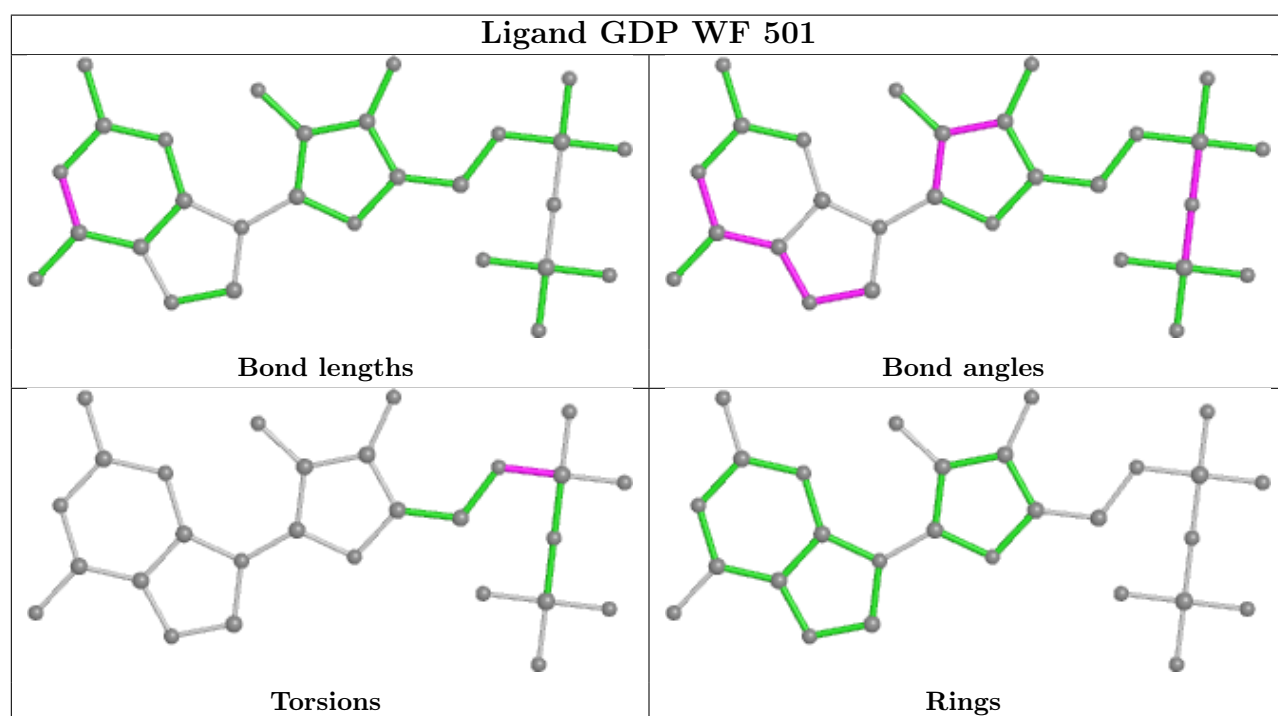
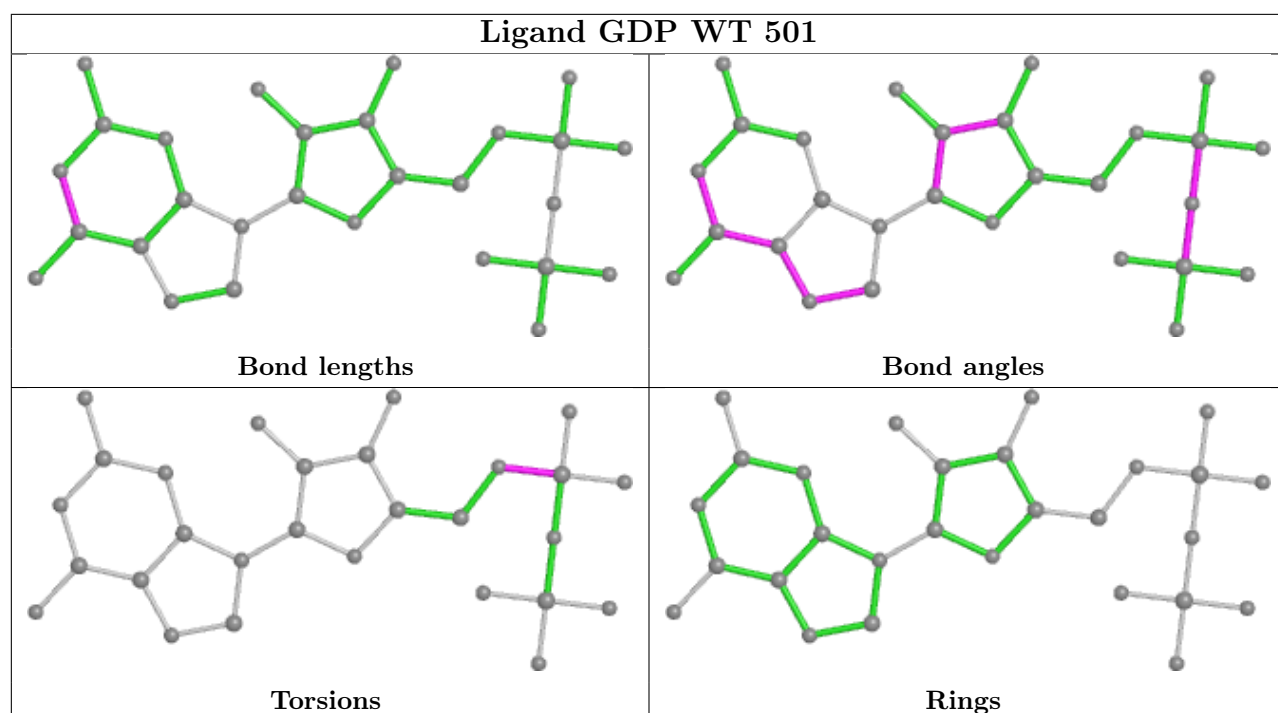
Bond angles



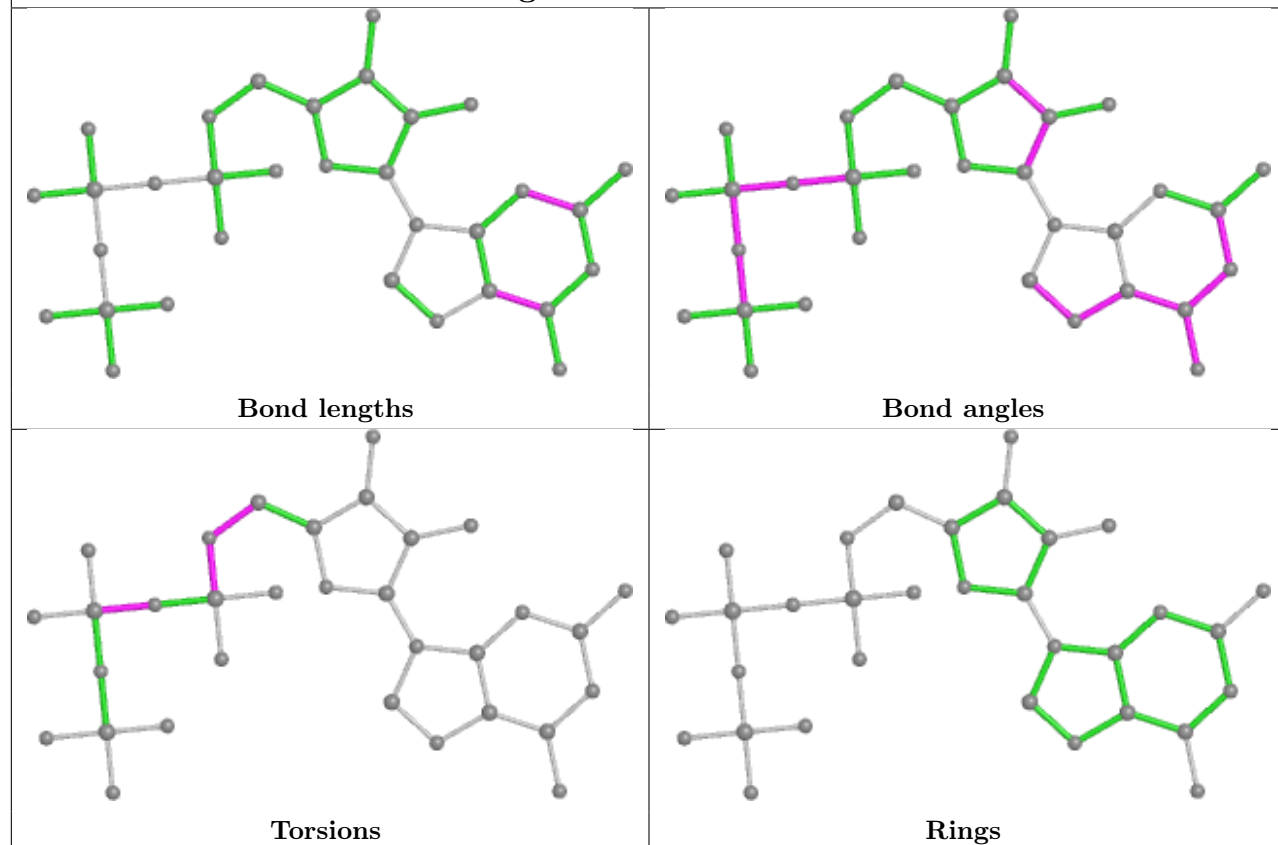
Torsions



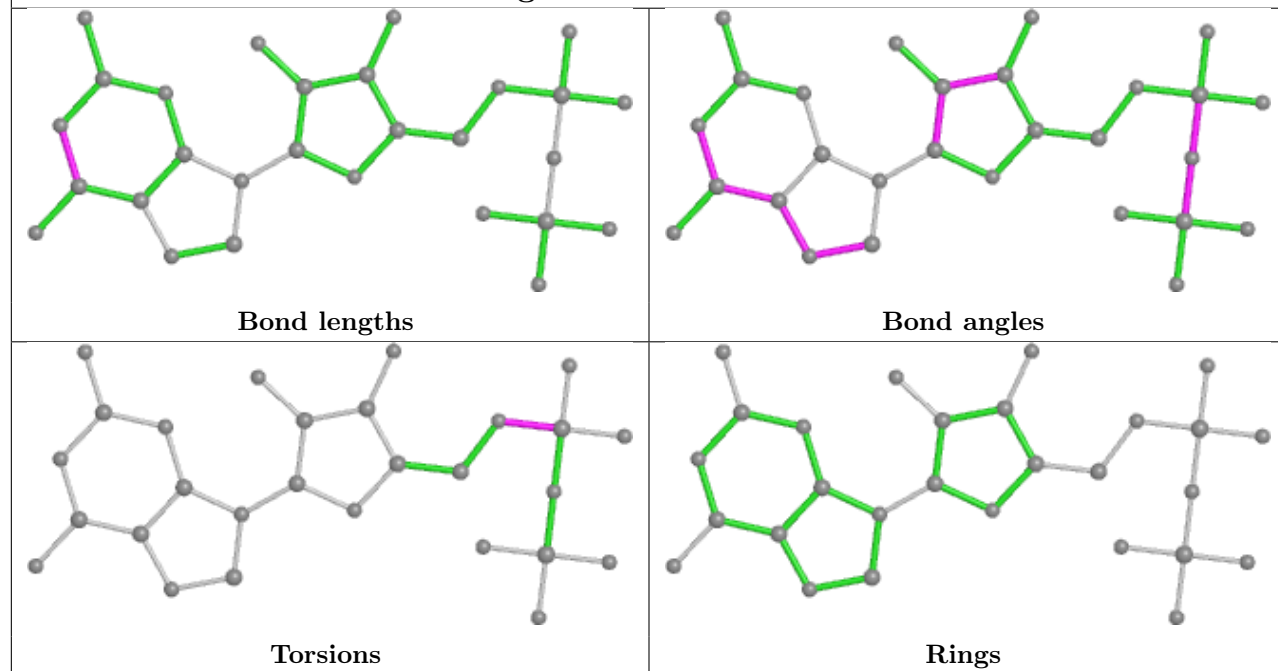
Rings

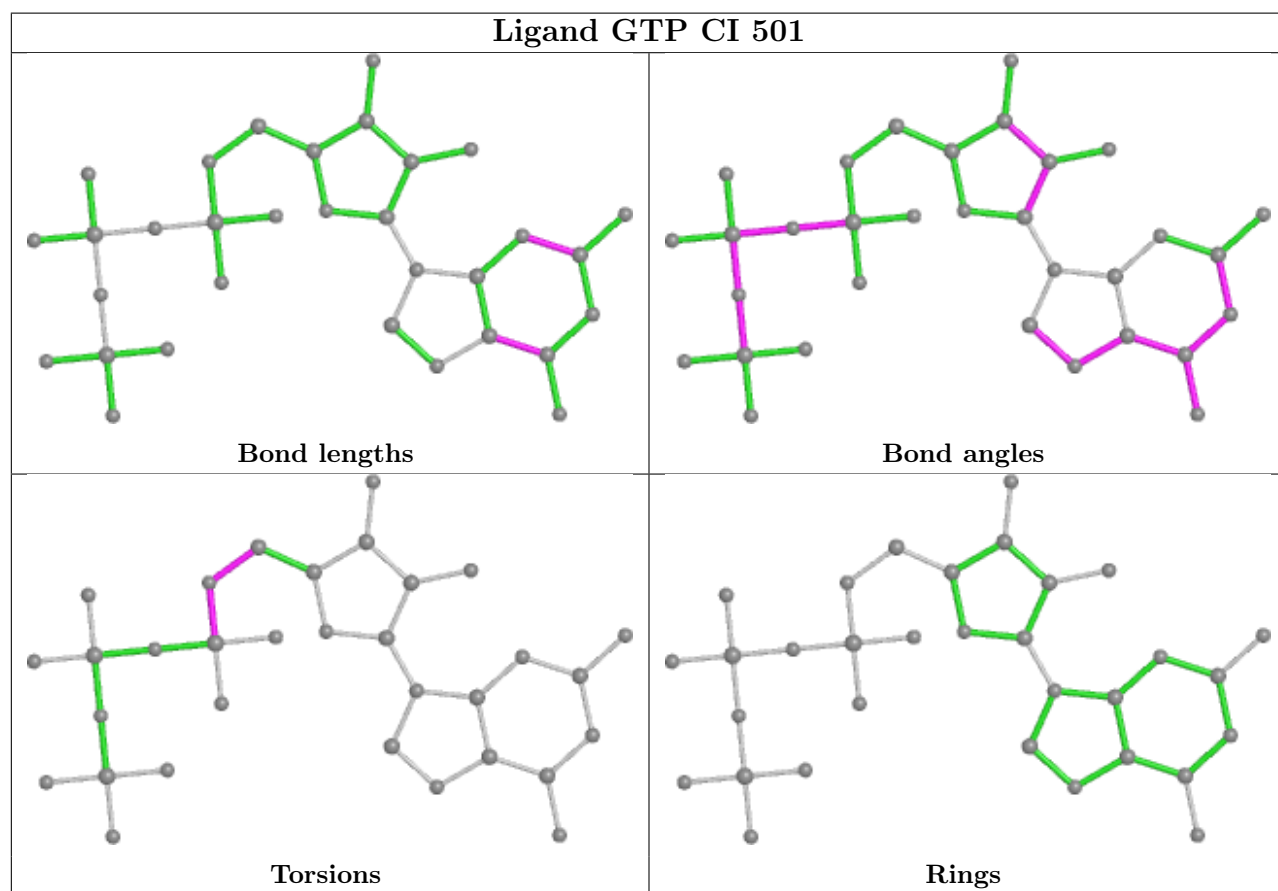
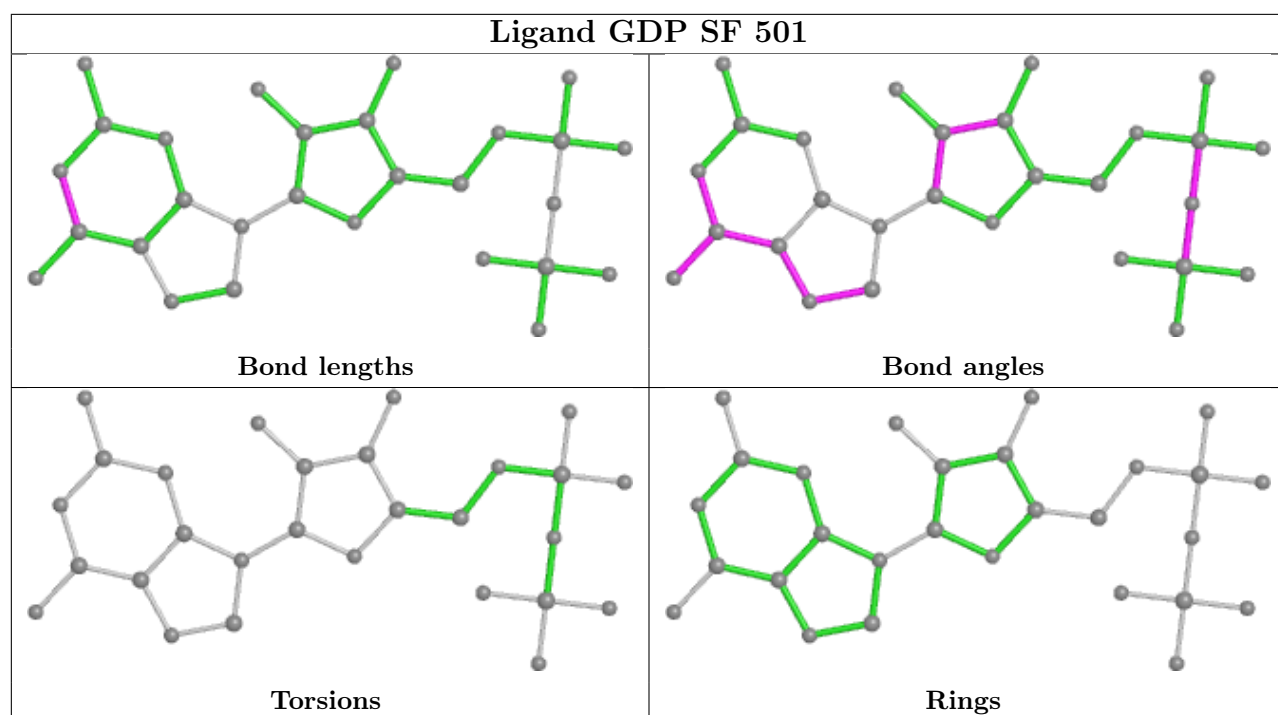


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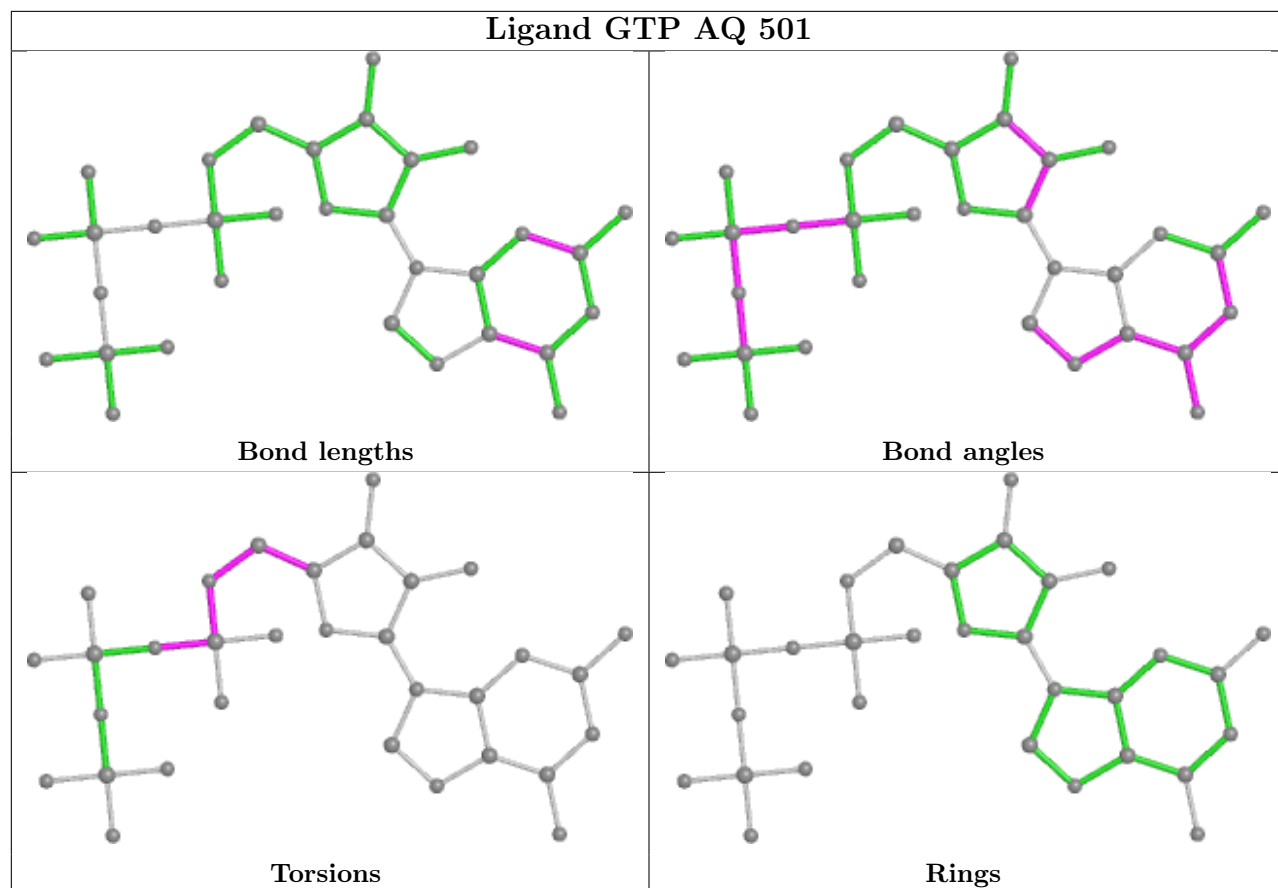


Ligand GDP DZ 501

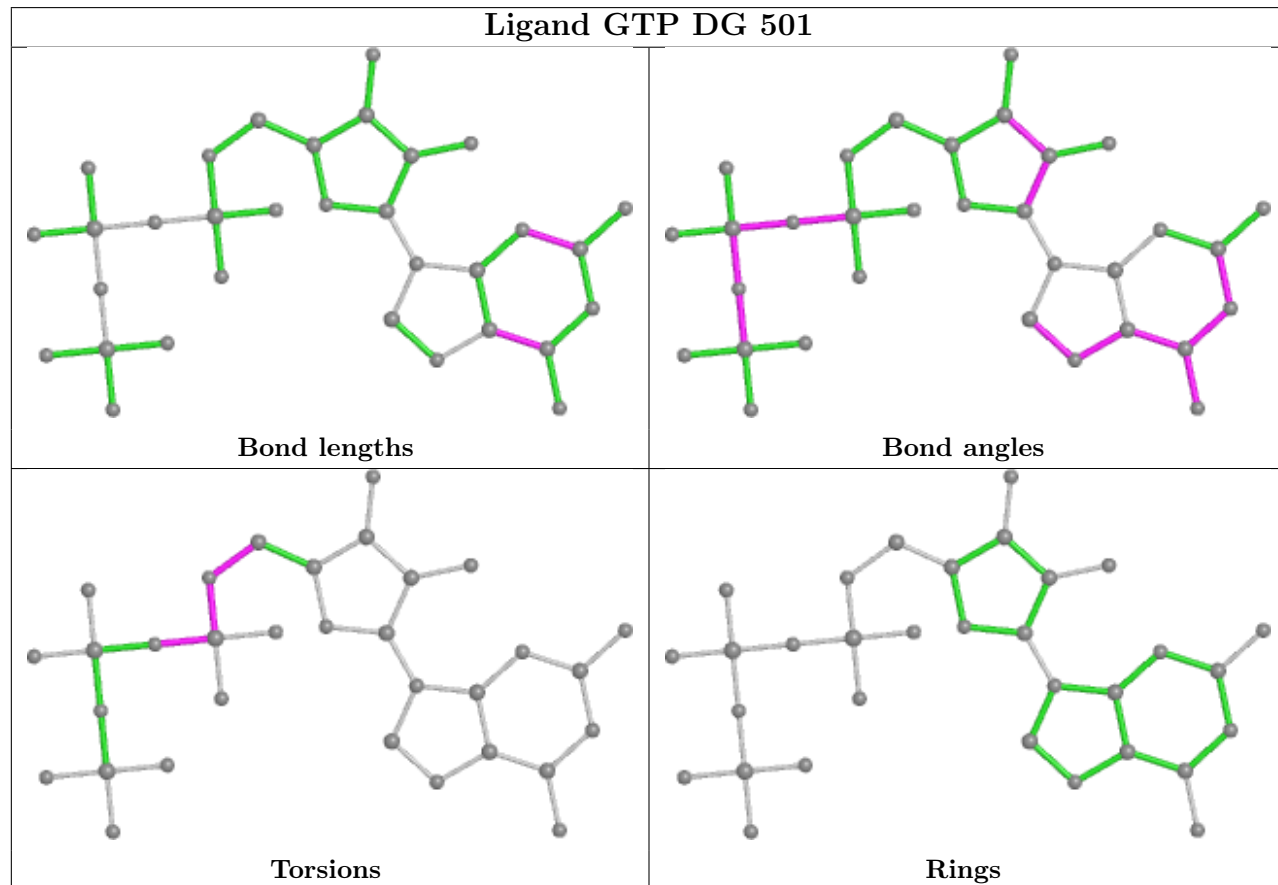


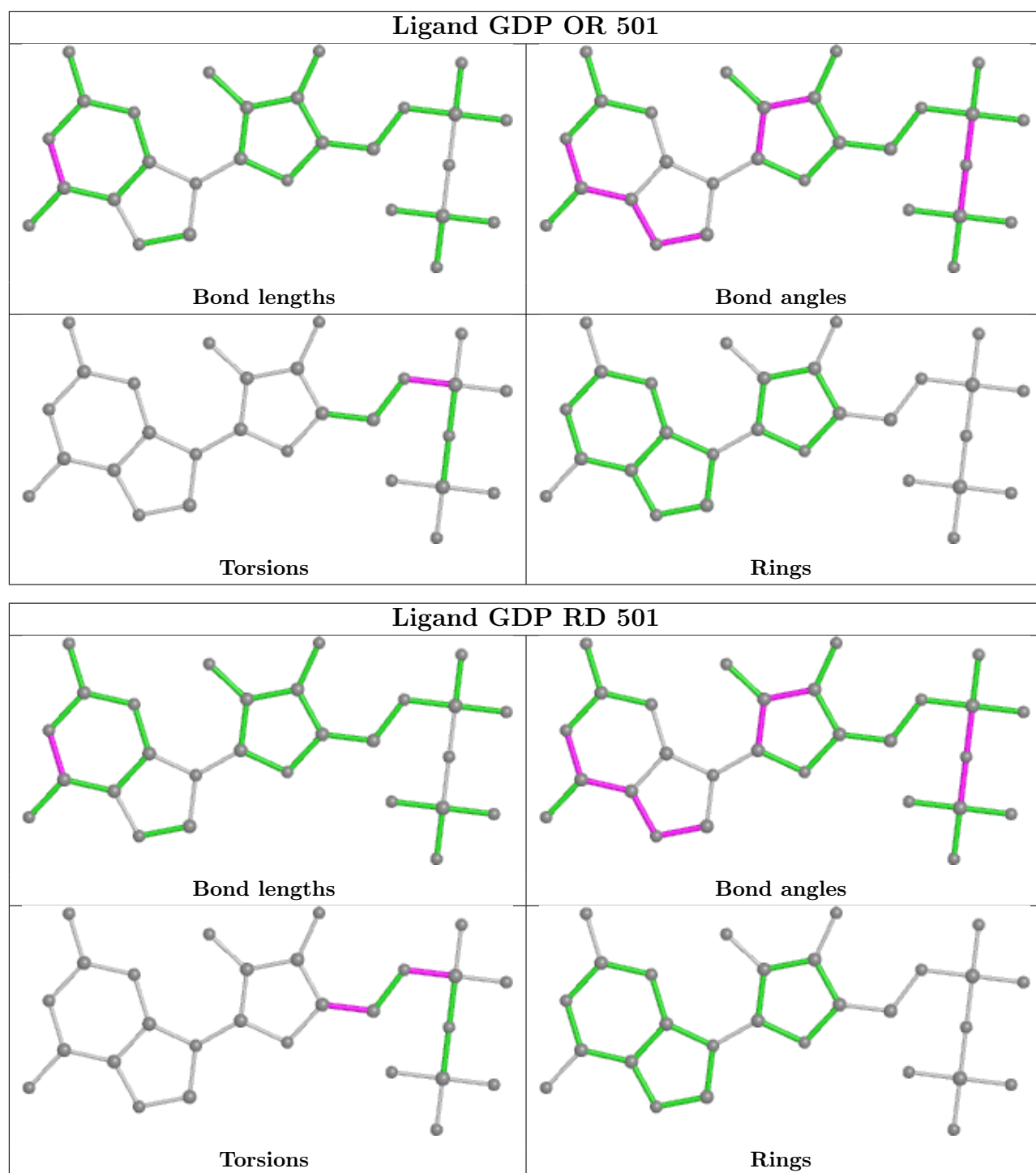


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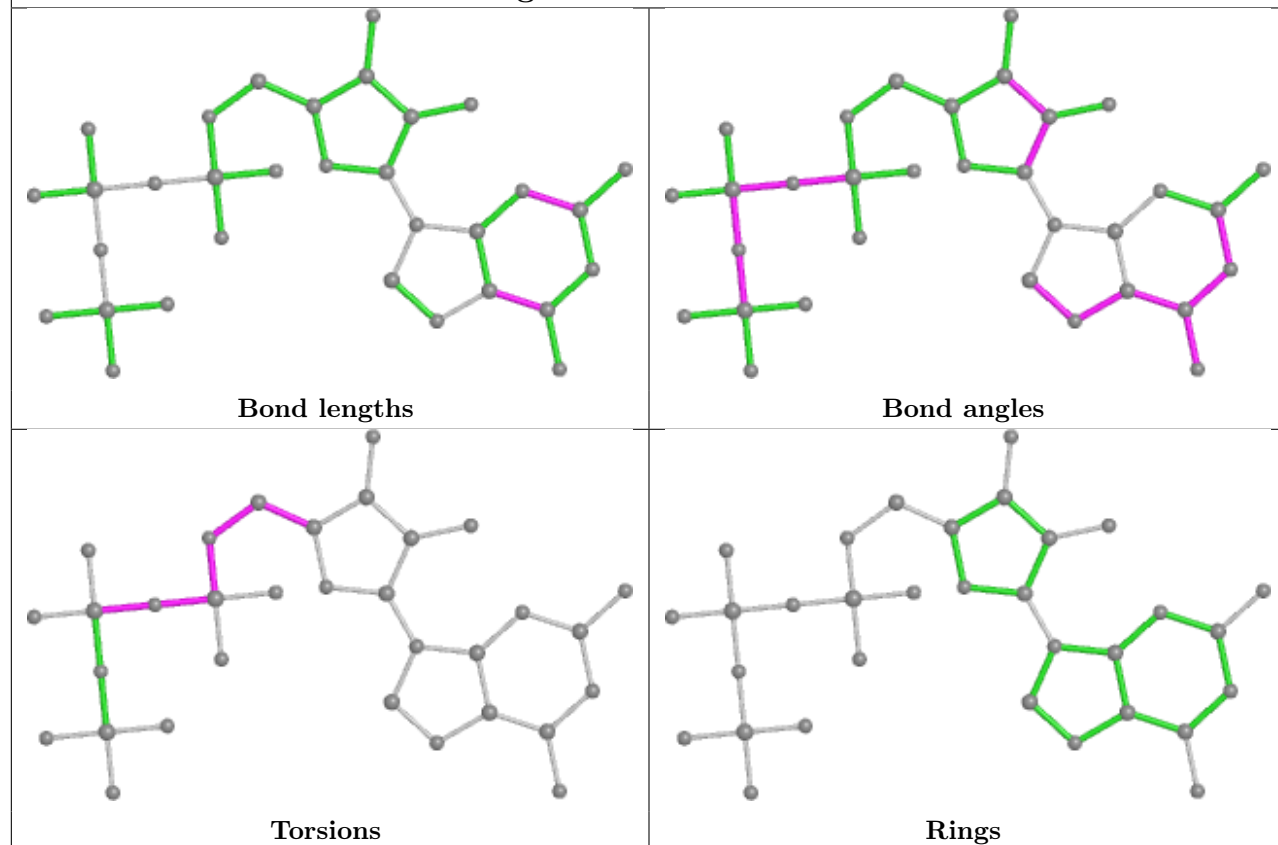


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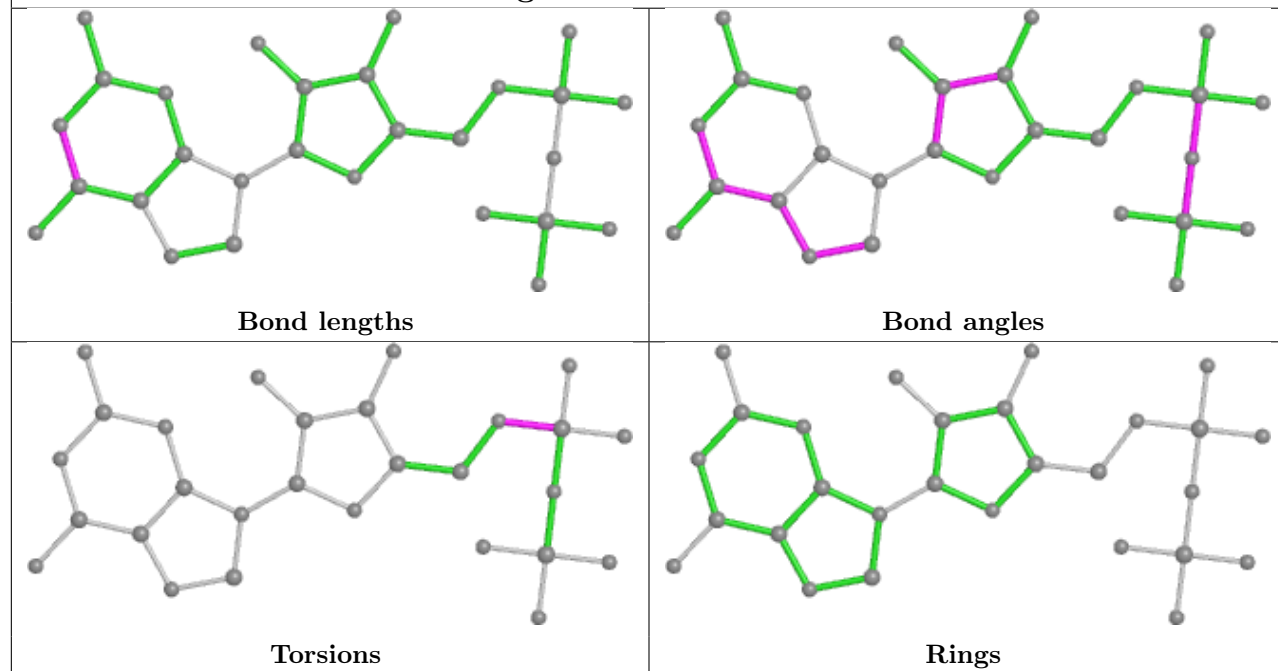


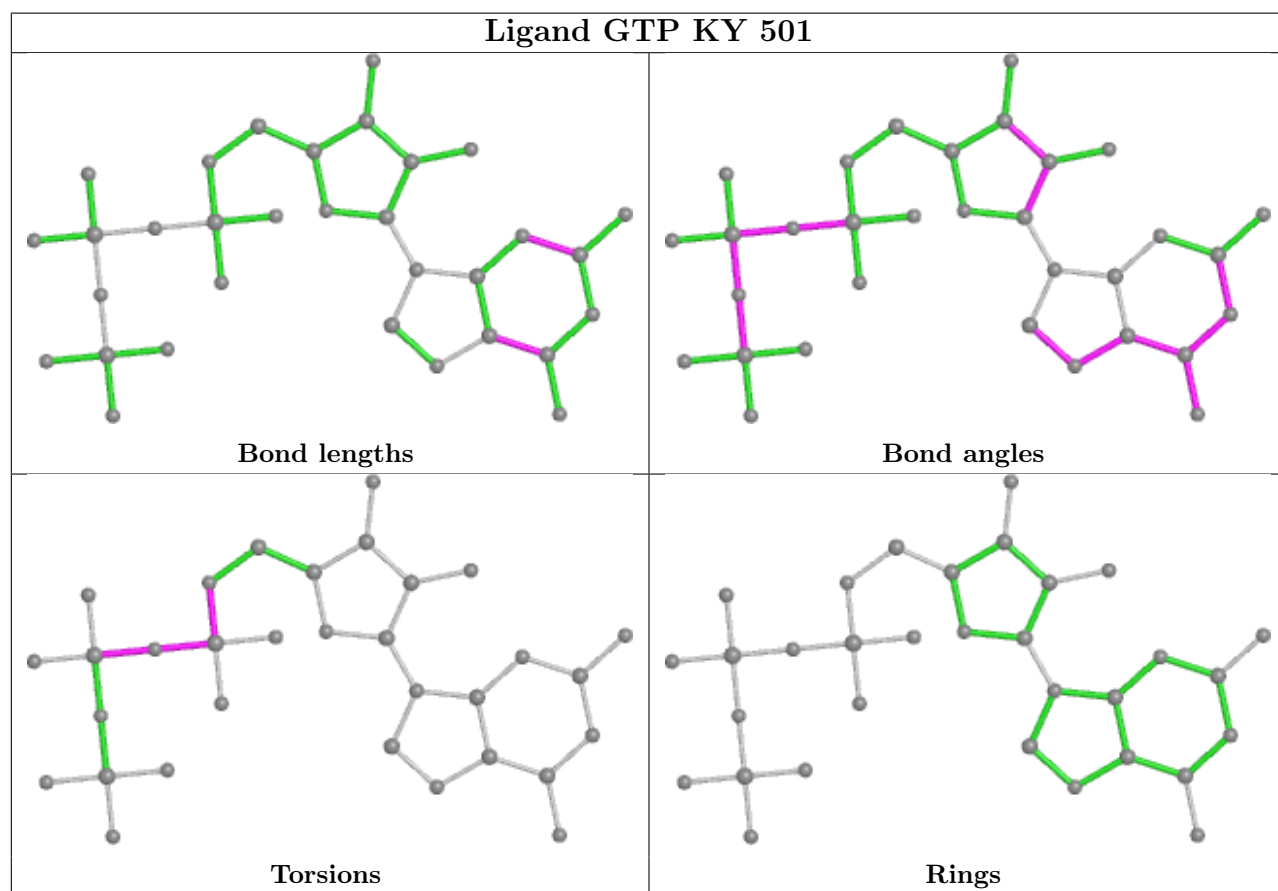
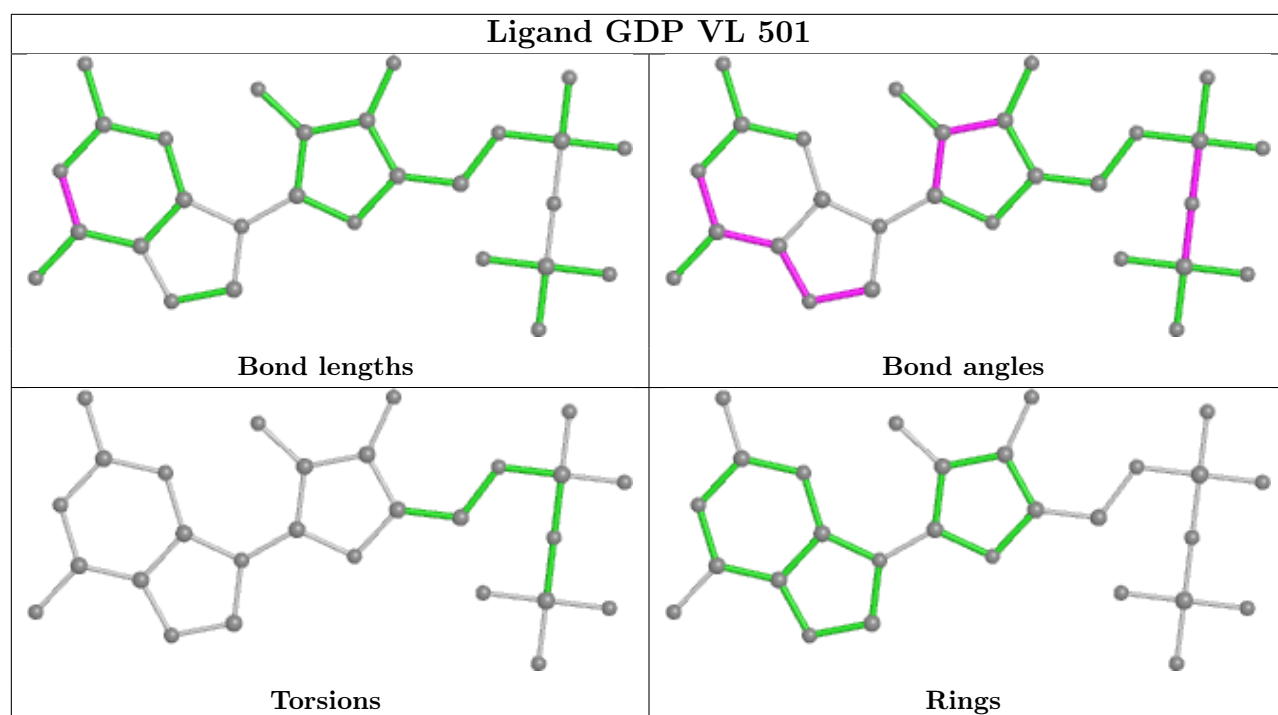


Ligand GTP CY 501

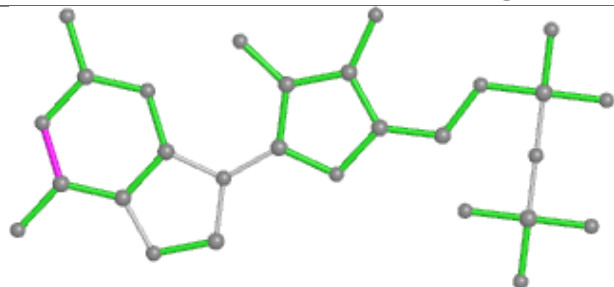


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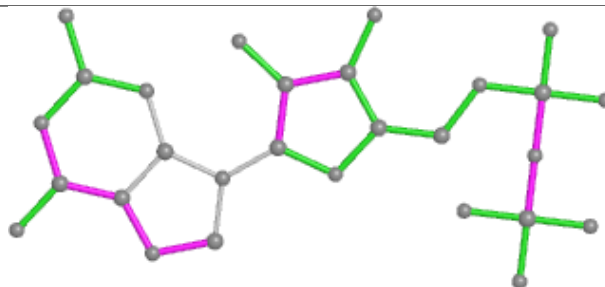




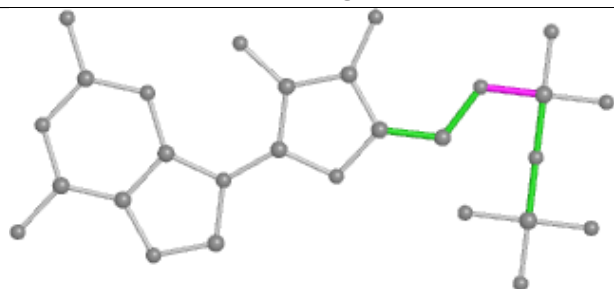
Ligand GDP UT 501



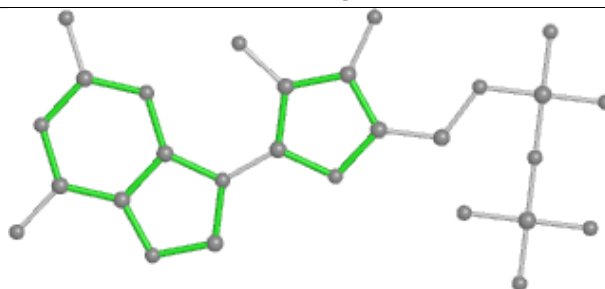
Bond lengths



Bond angles

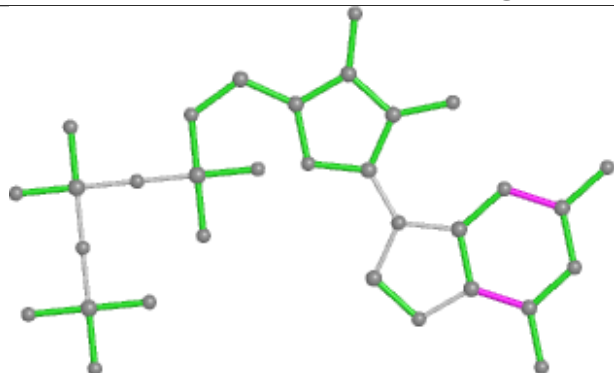


Torsions

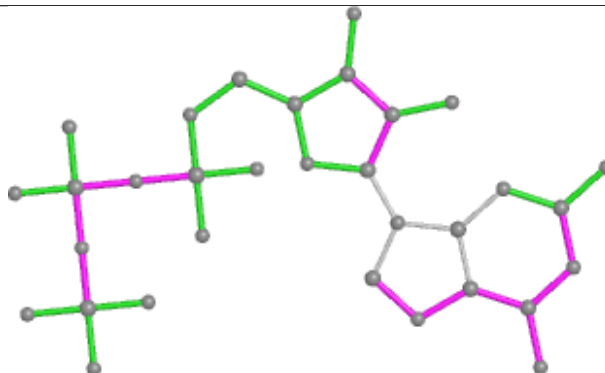


Rings

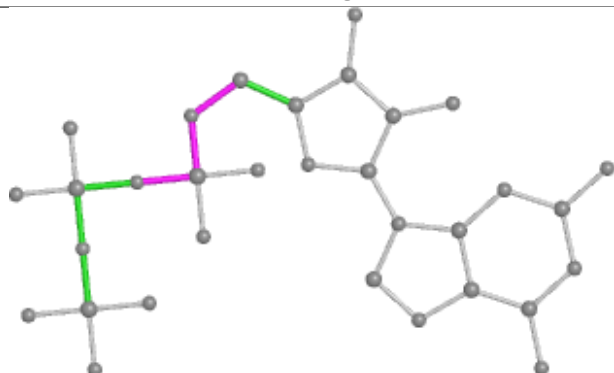
Ligand GTP NU 501



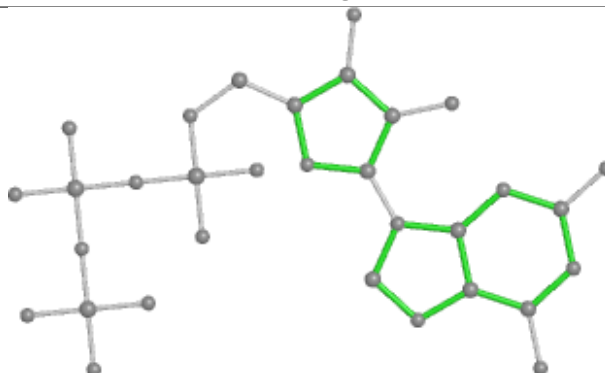
Bond lengths



Bond angles

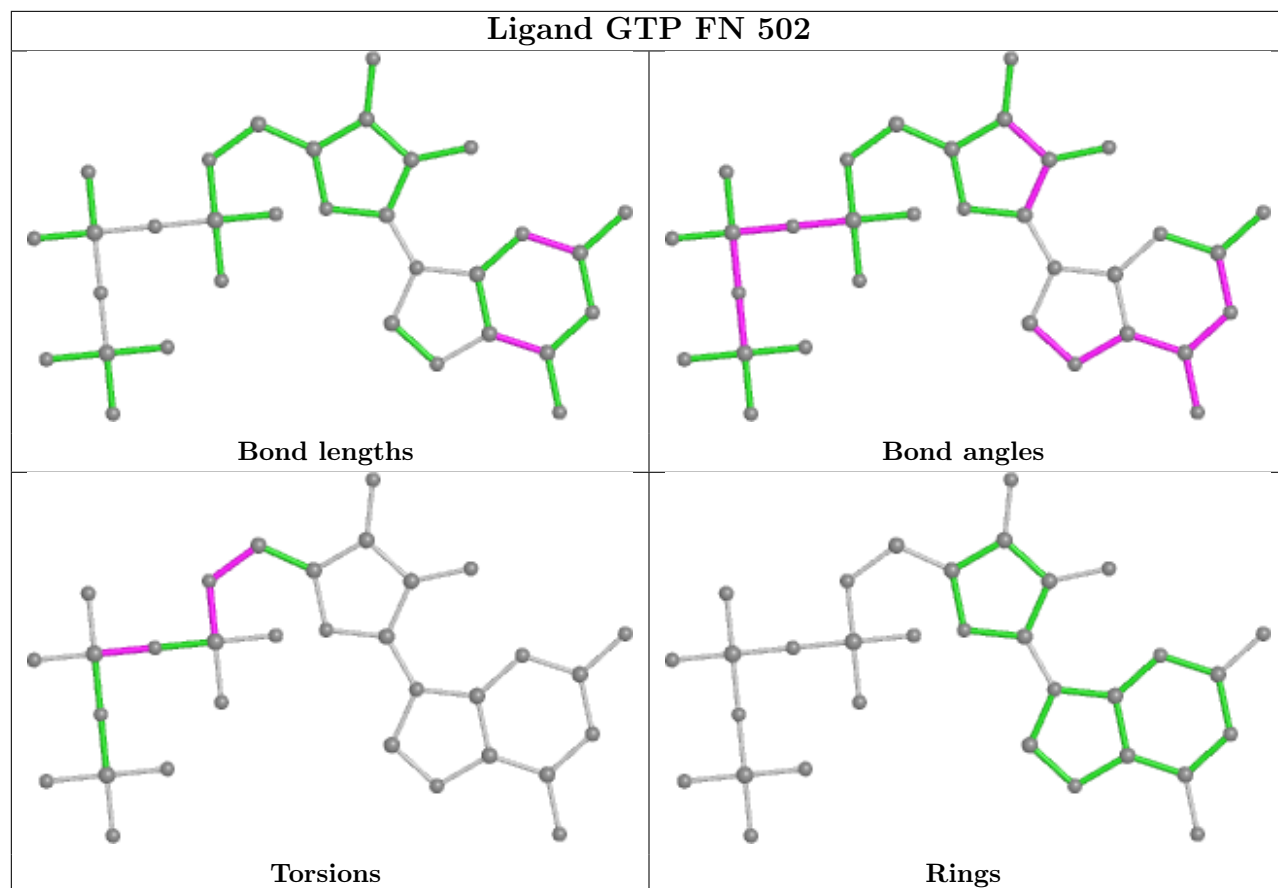


Torsions

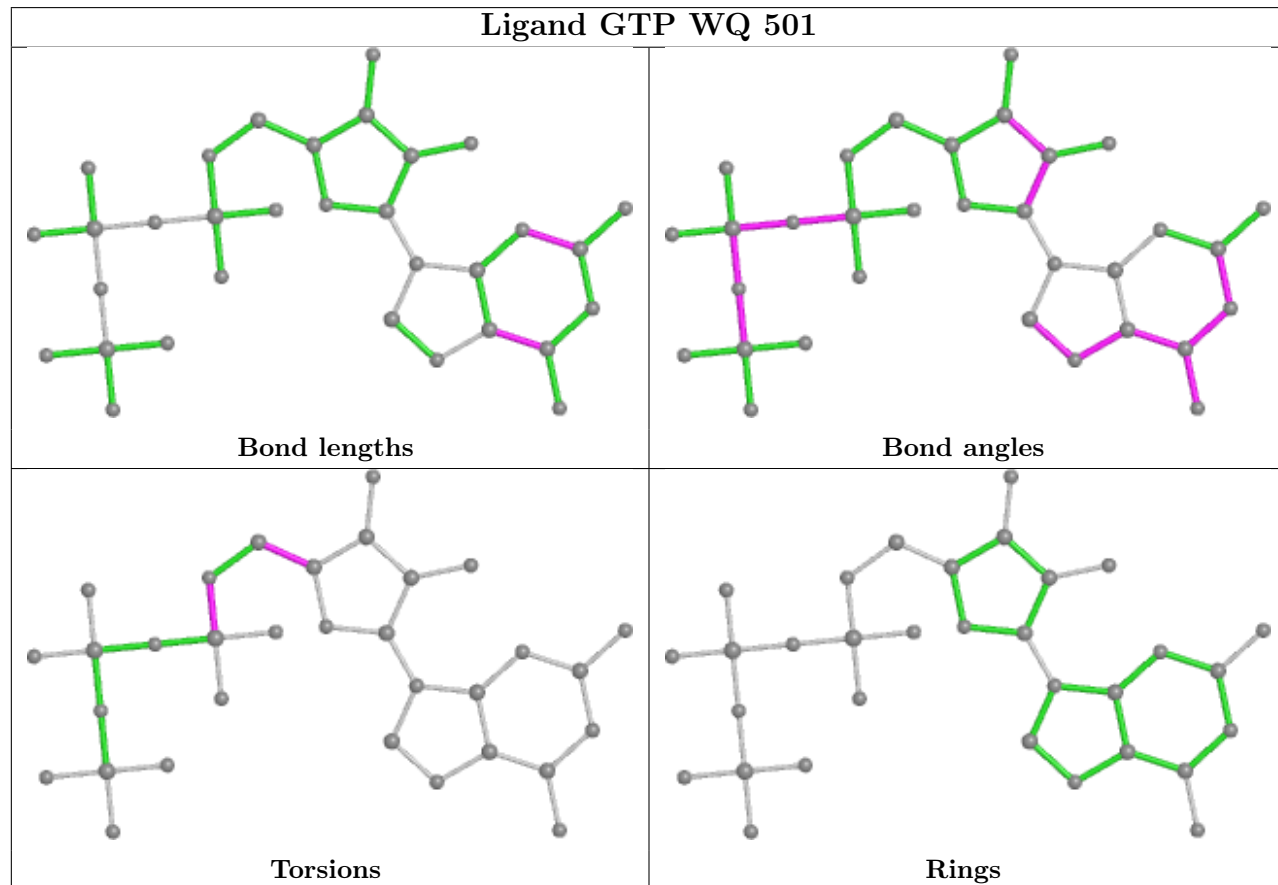


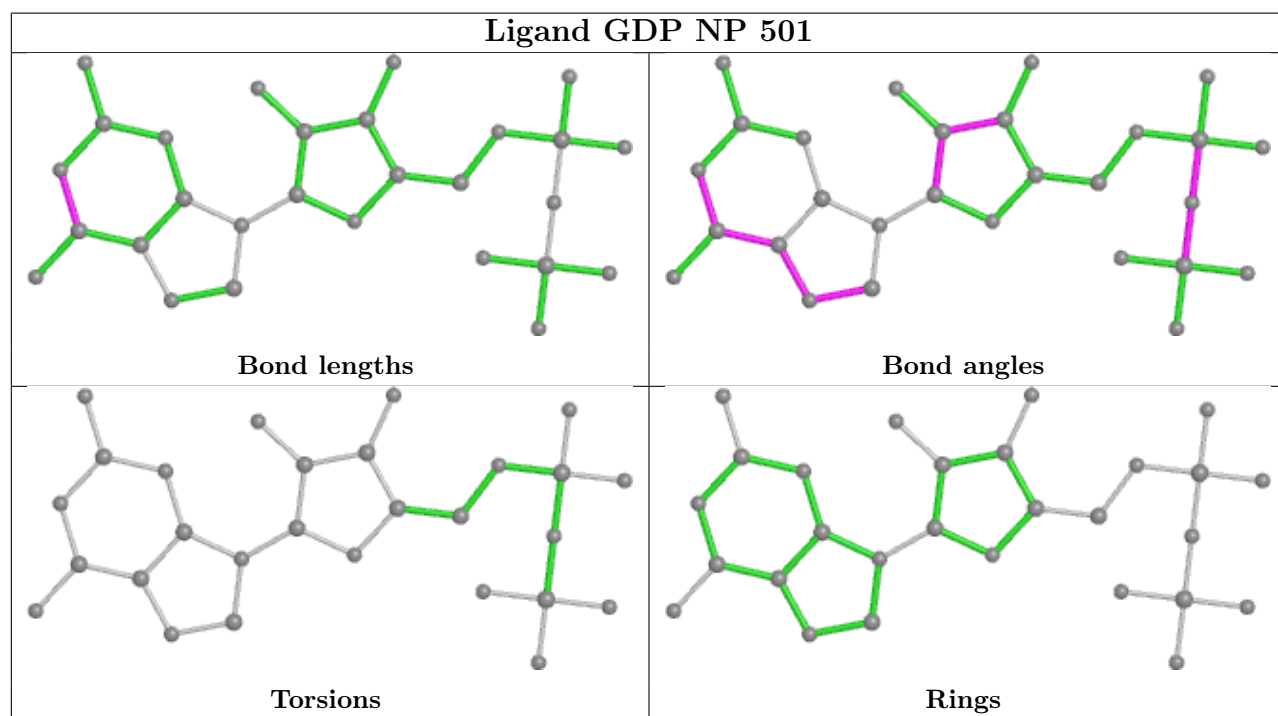
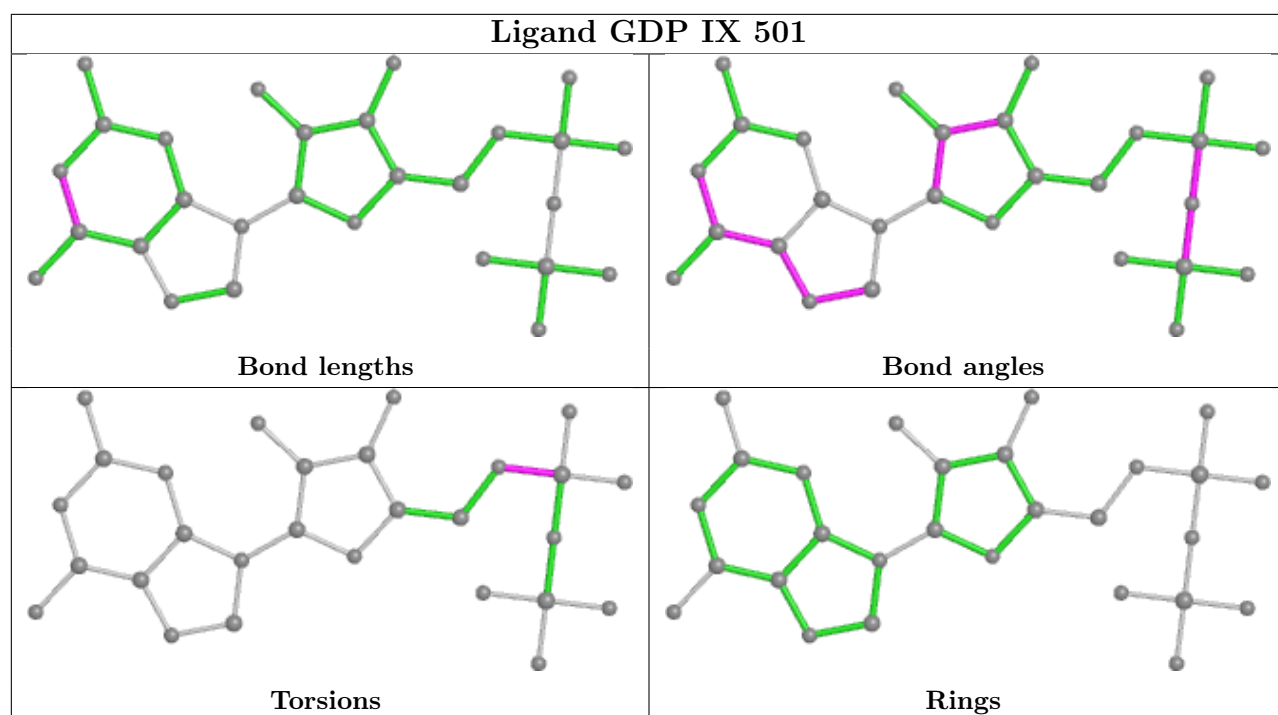
Rings

Ligand GTP FN 502

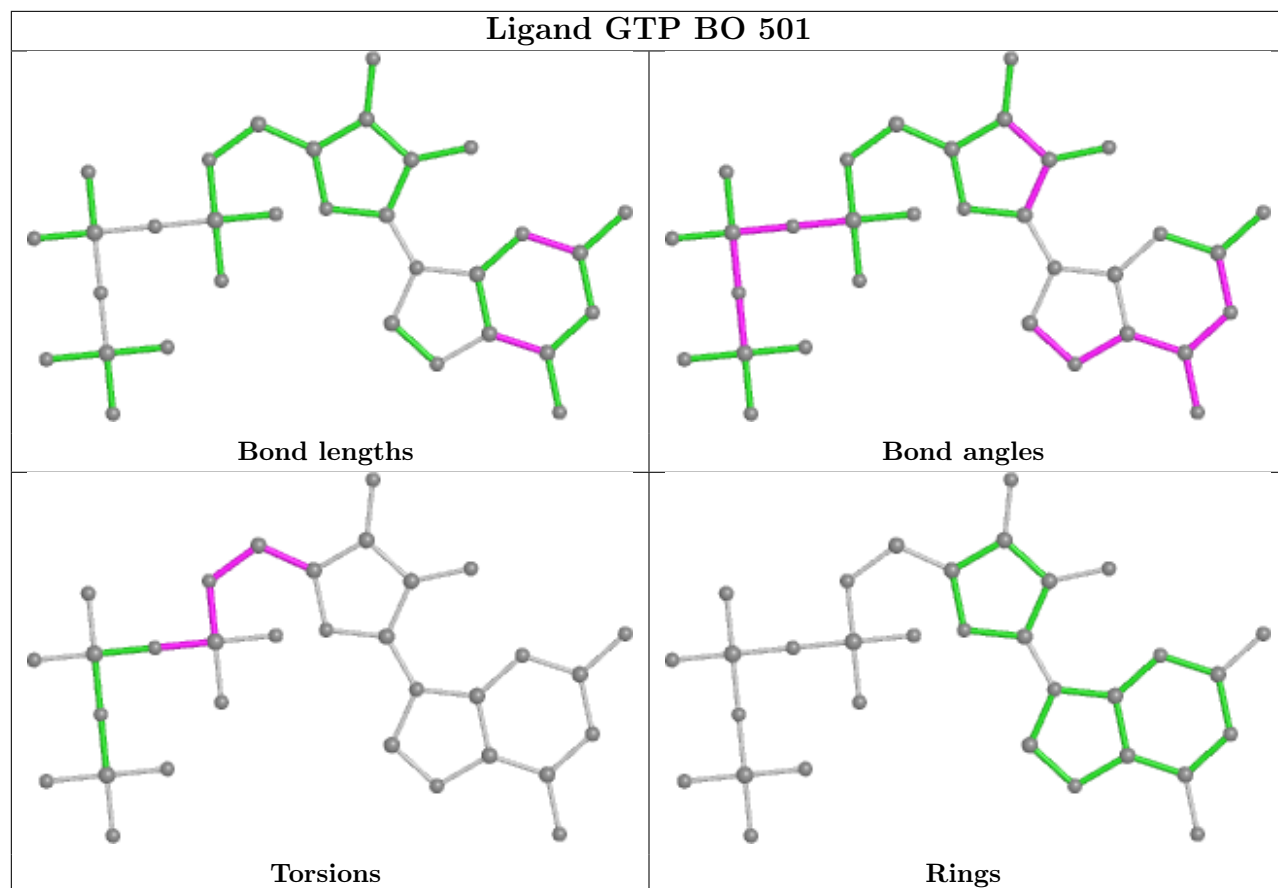


Ligand GTP WQ 501

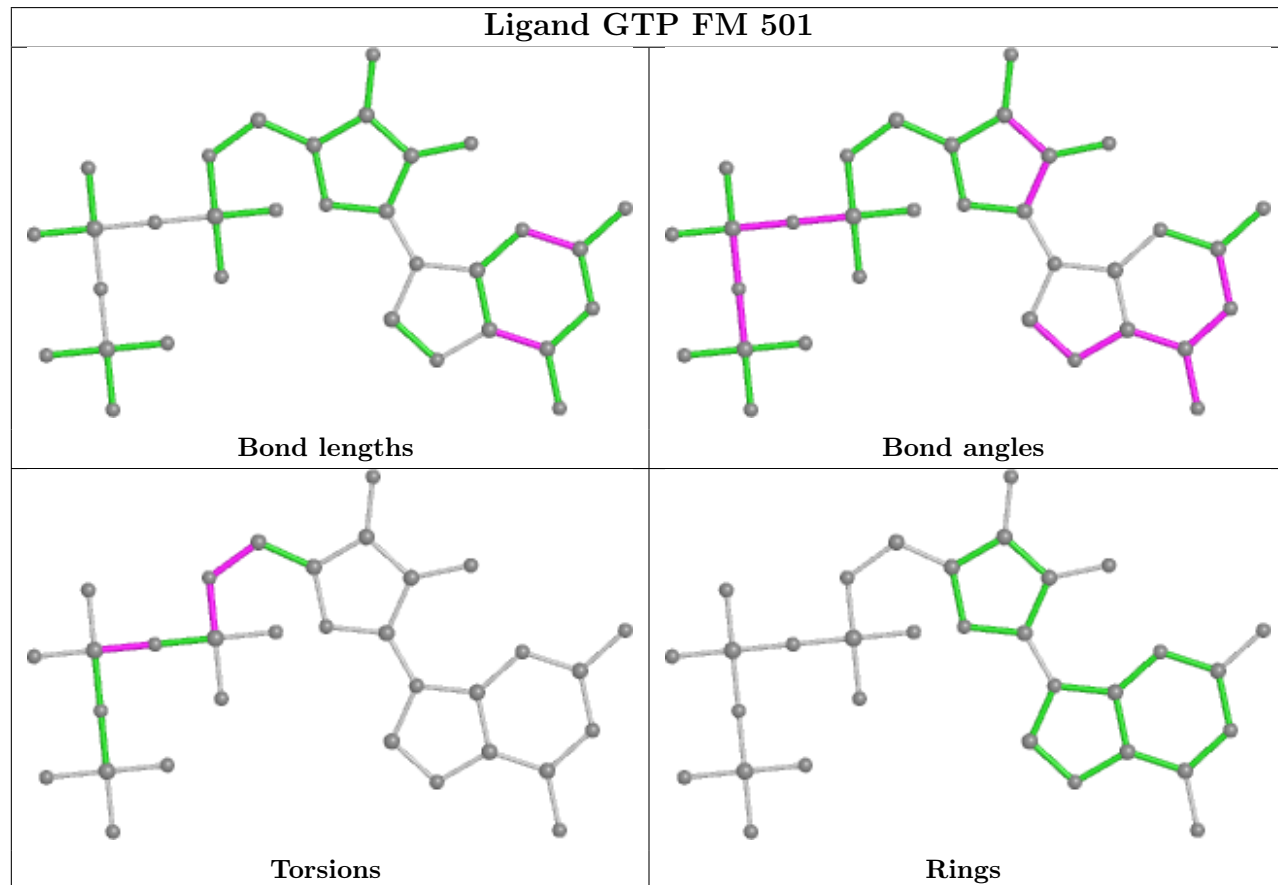


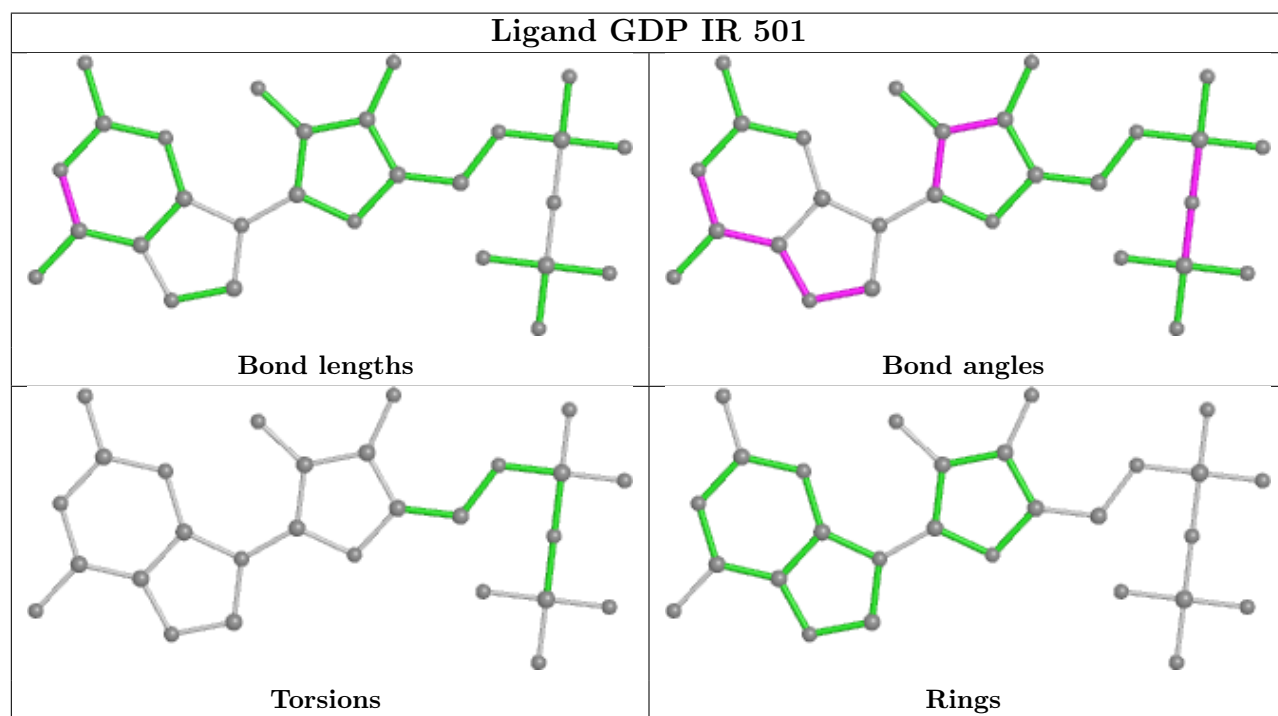
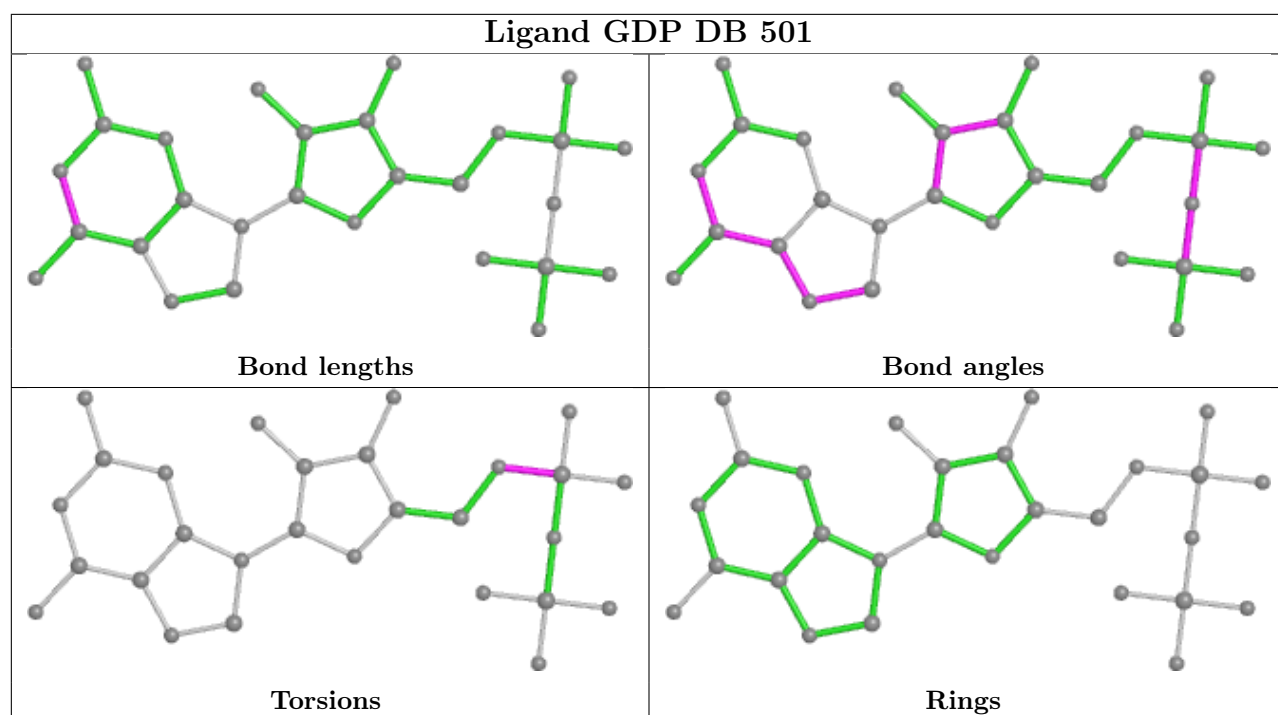


Ligand GTP BO 501

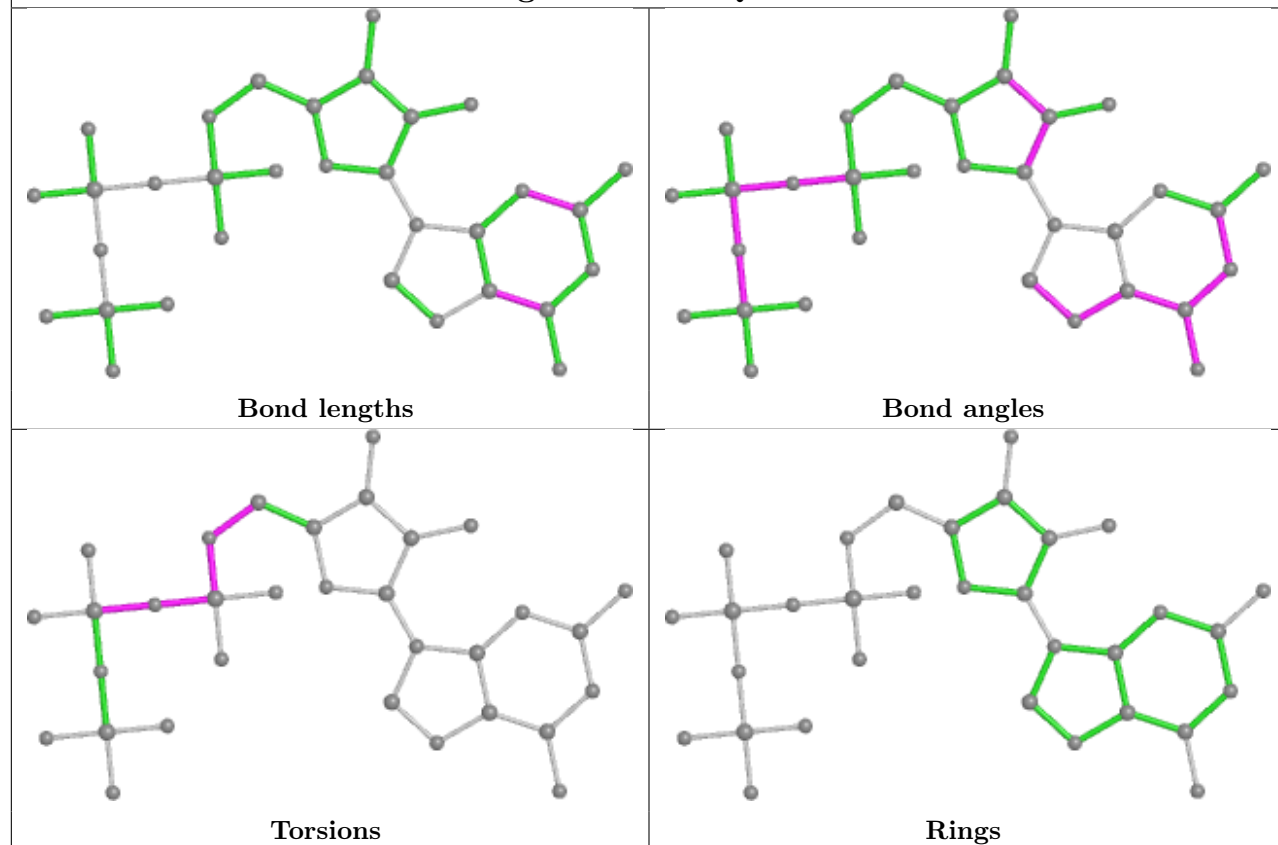


Ligand GTP FM 501

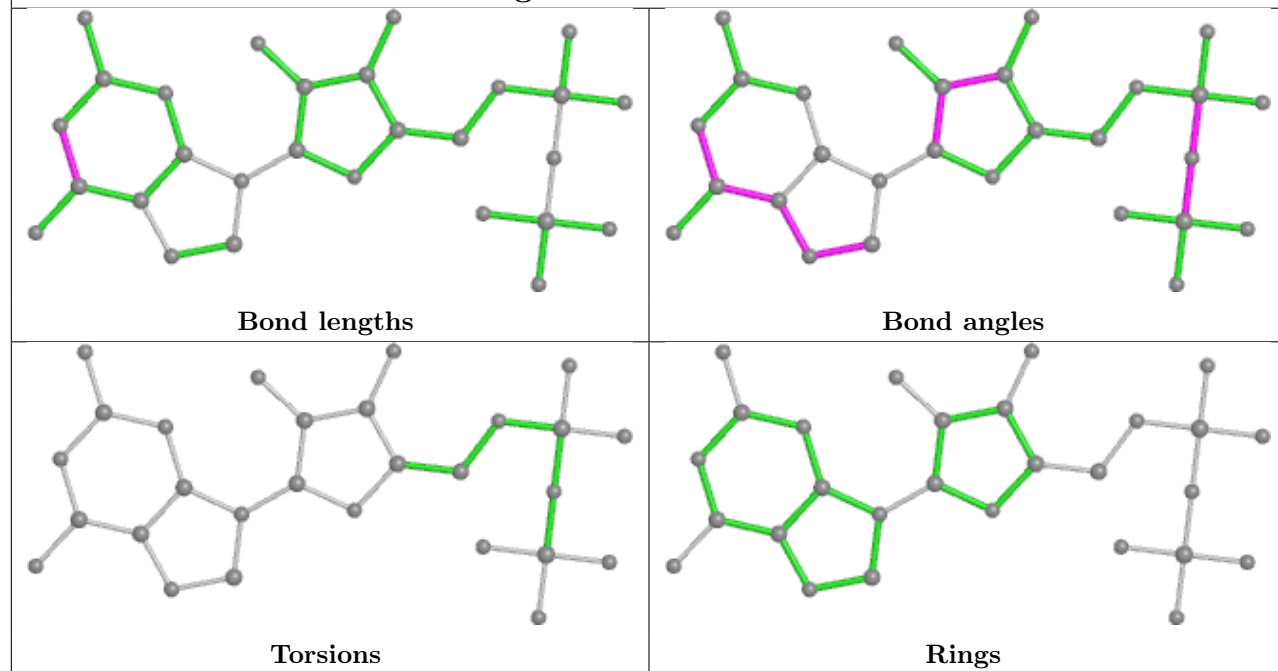




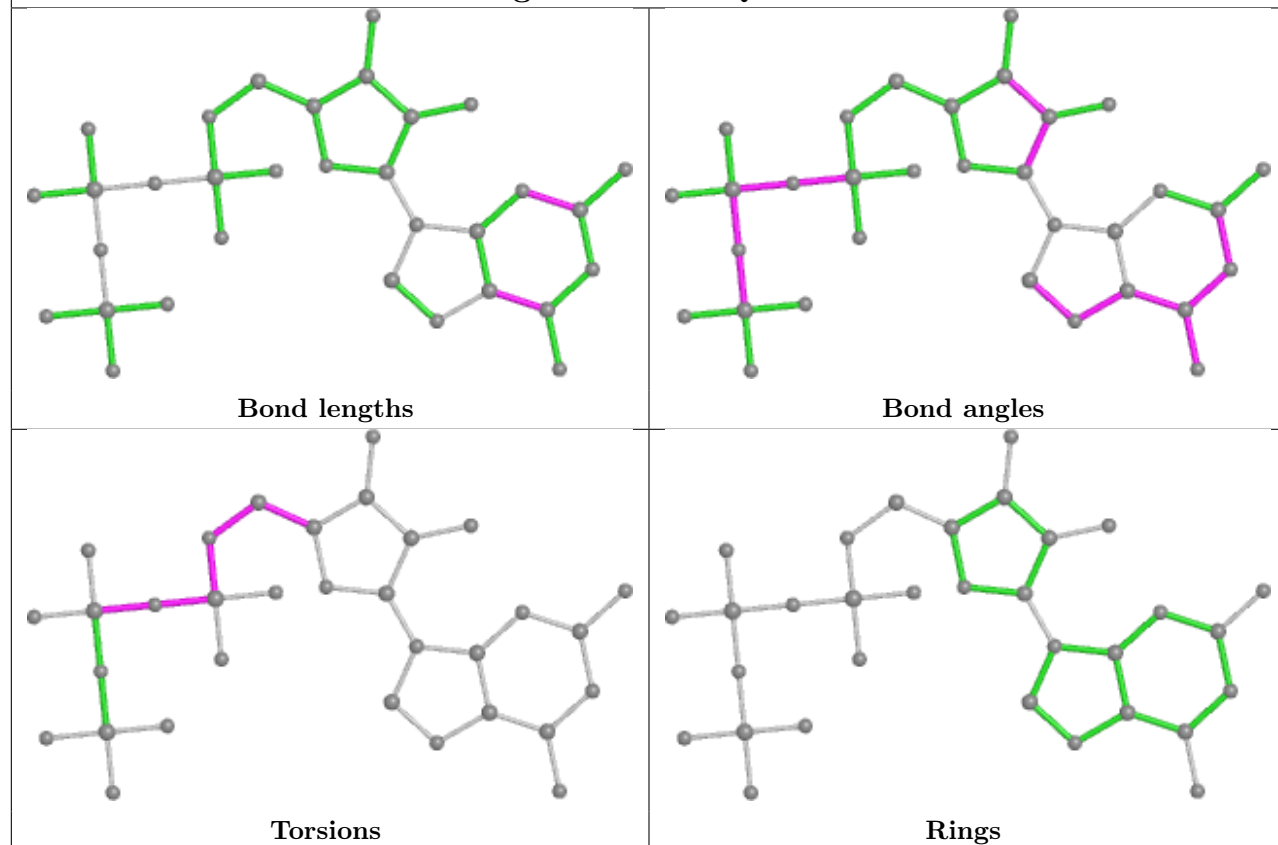
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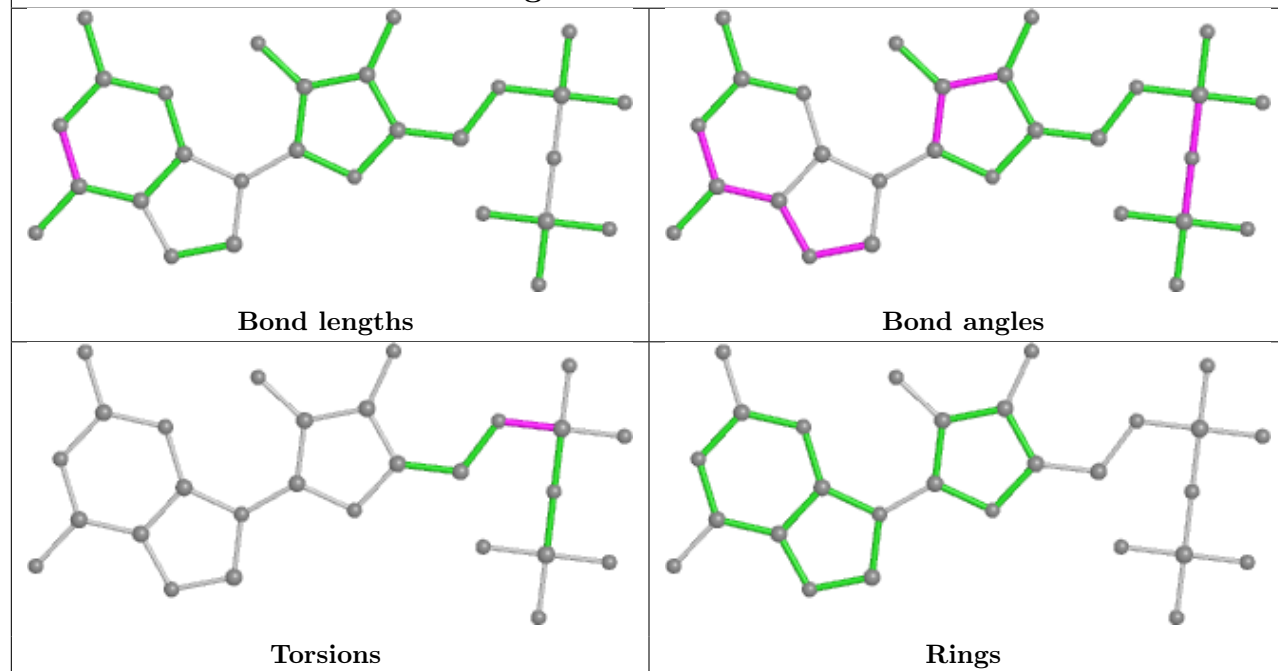
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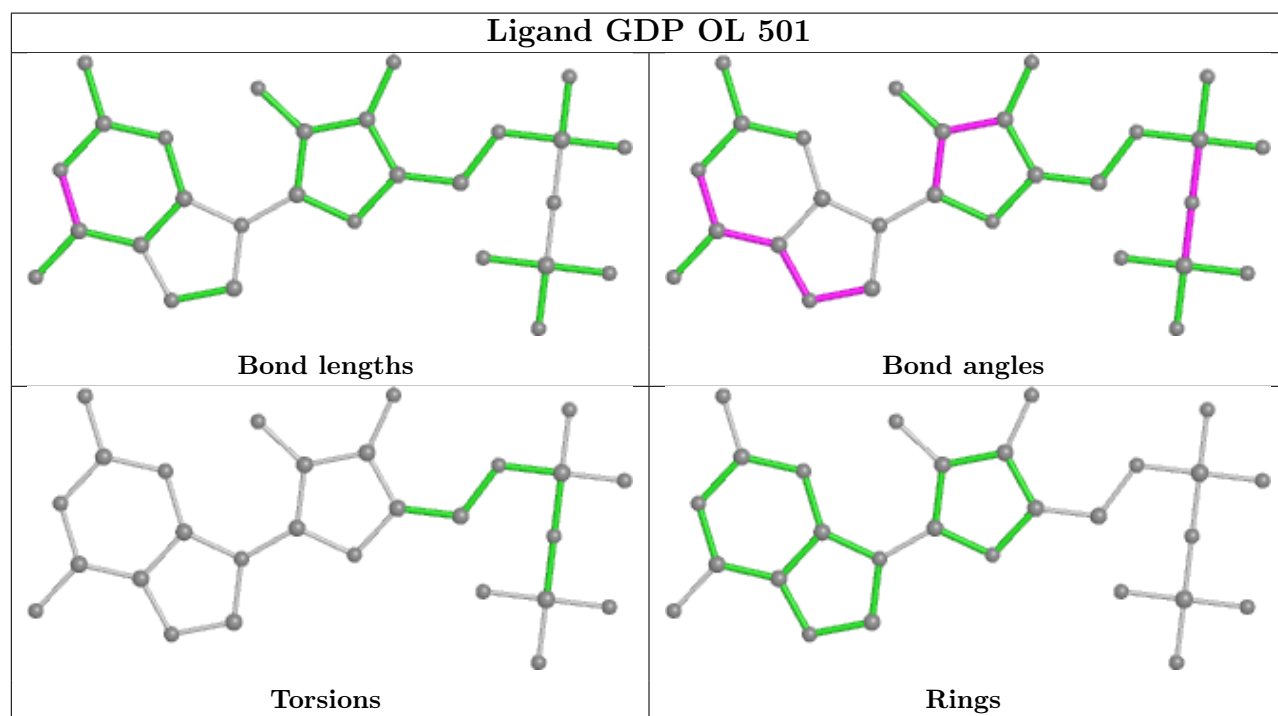
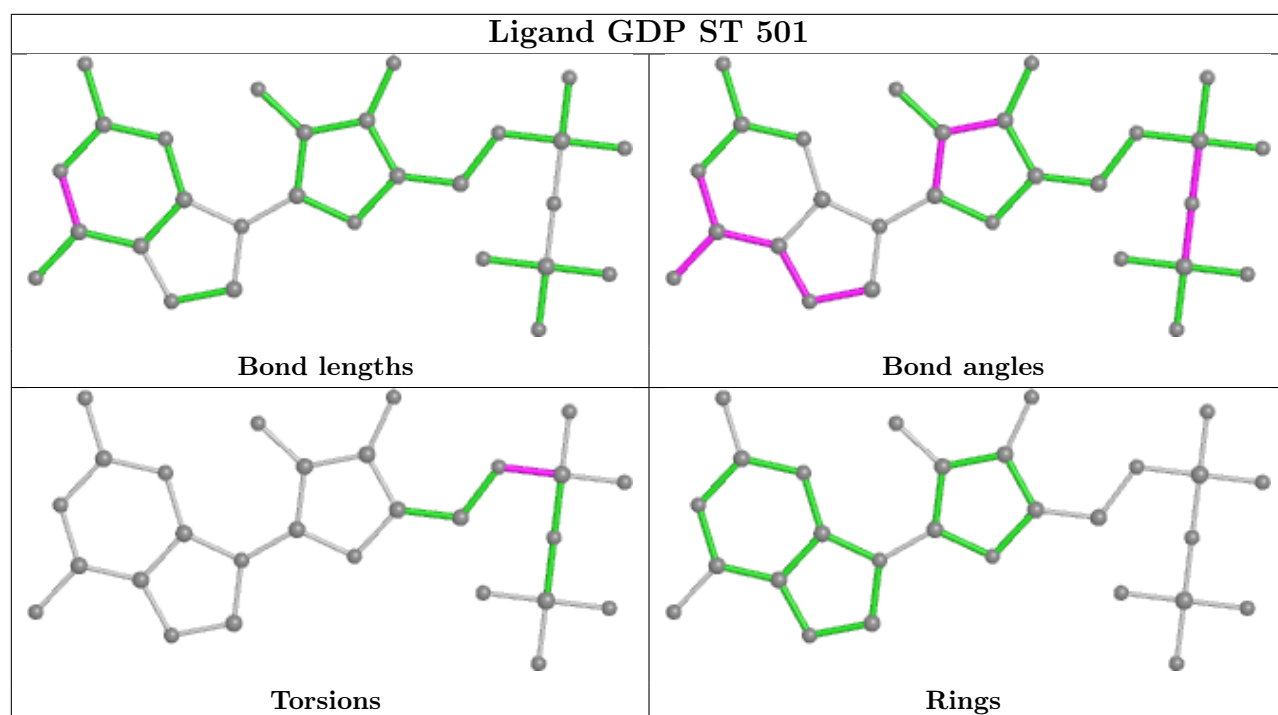


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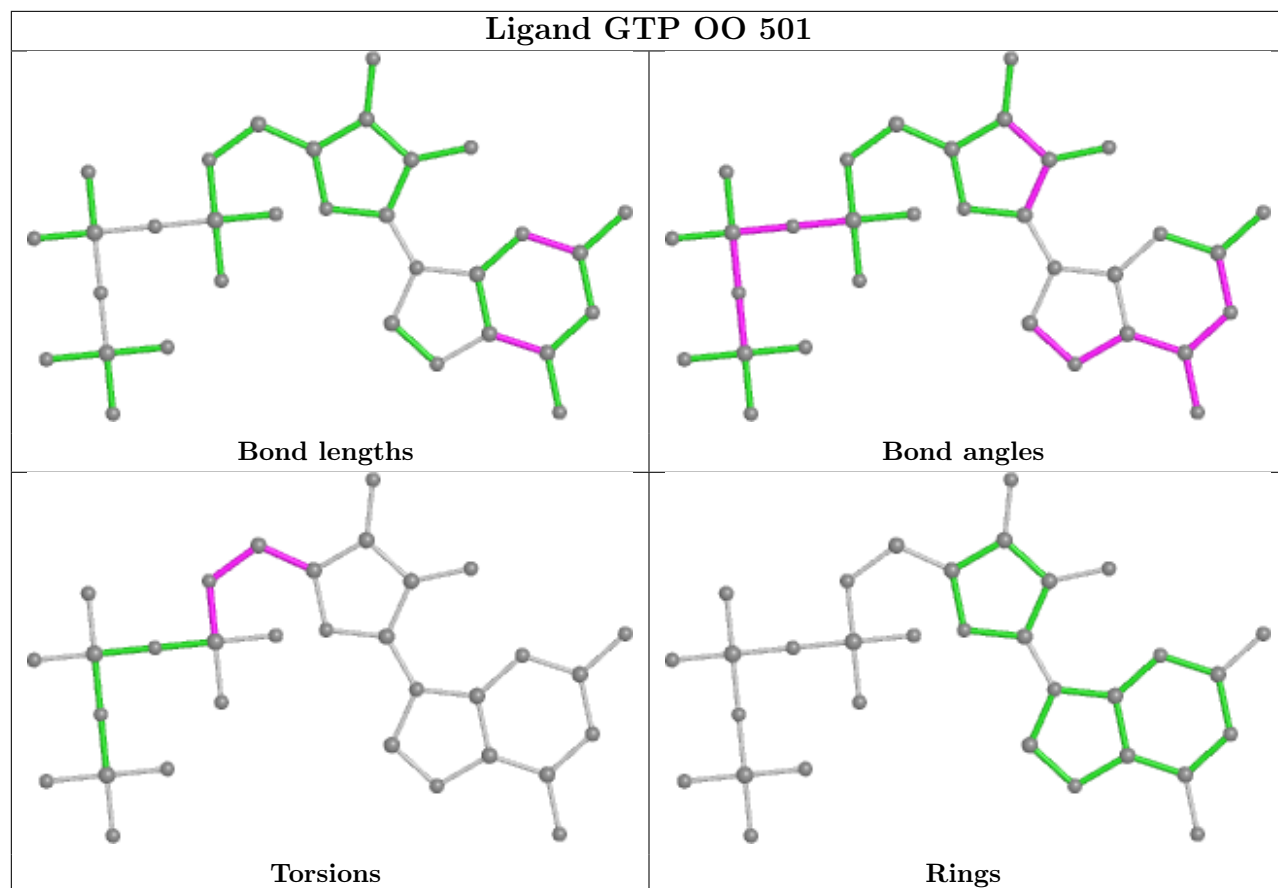


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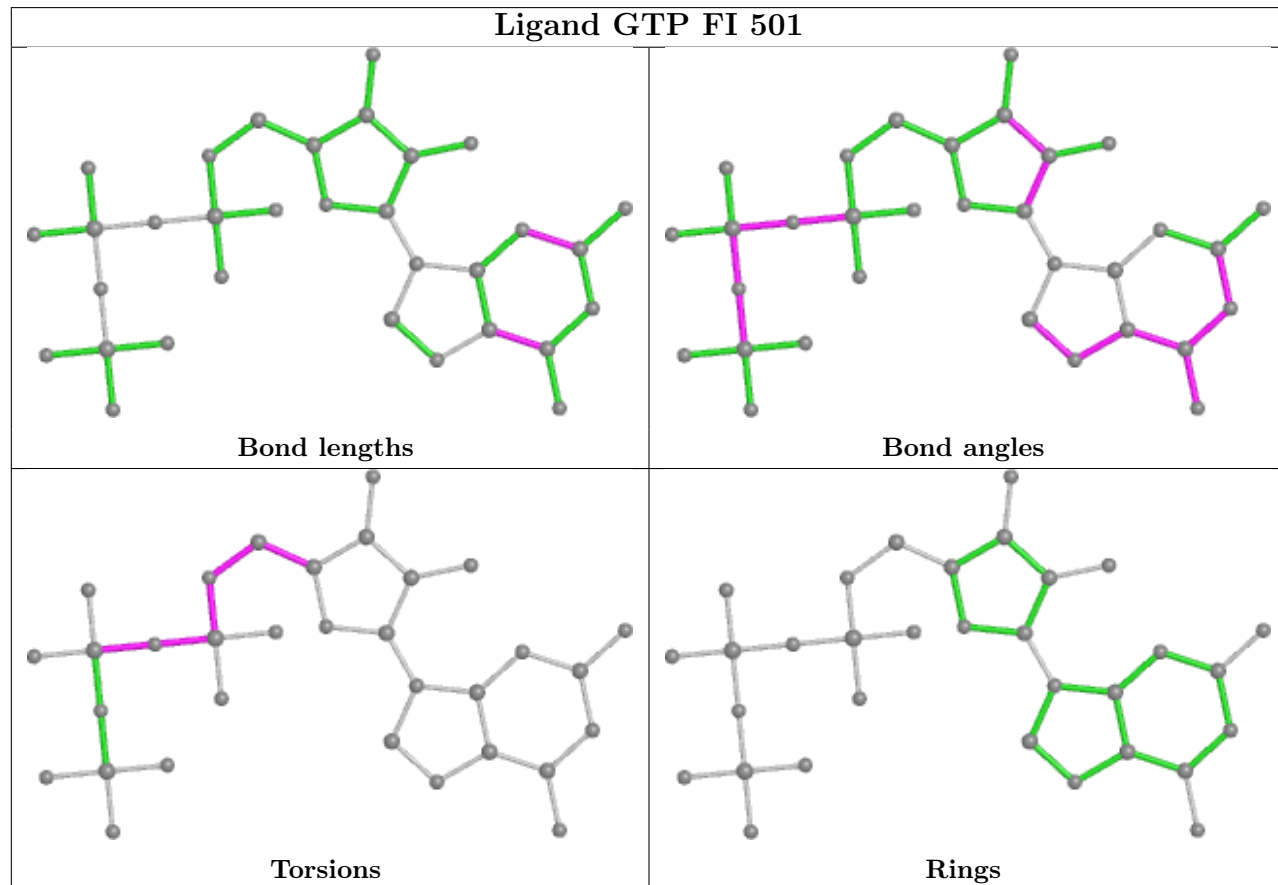


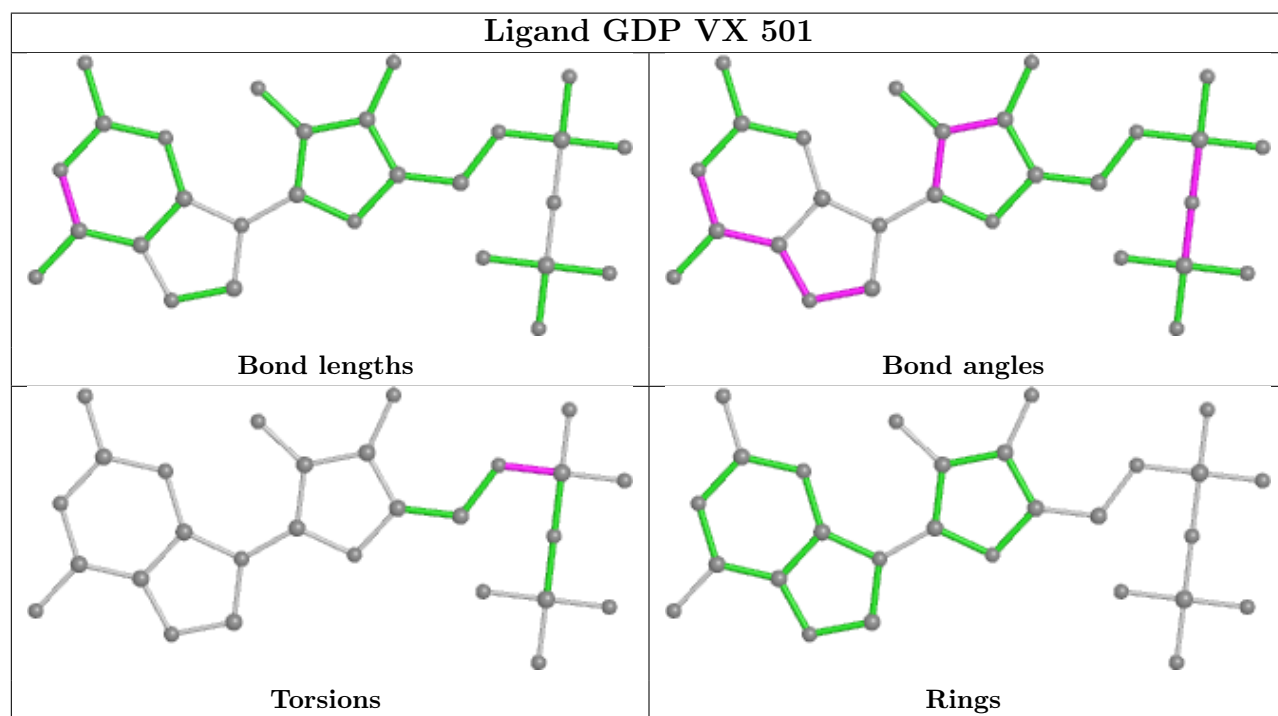
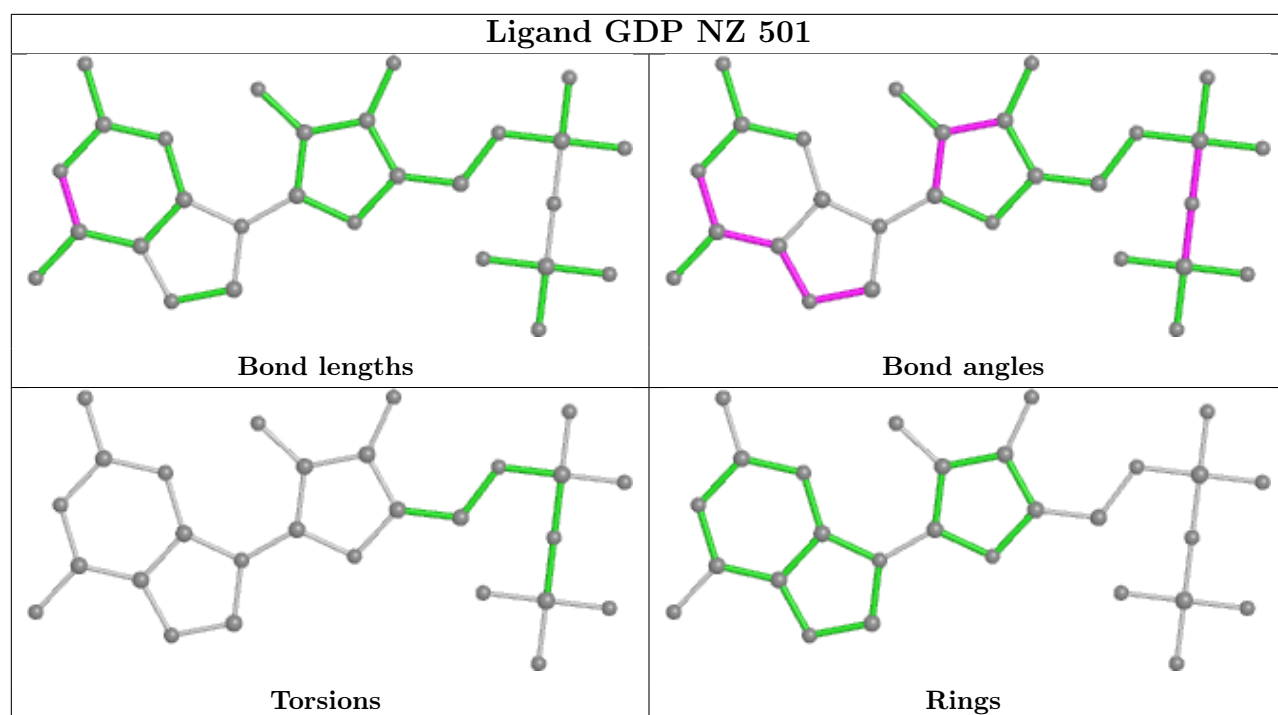


Ligand GTP OO 501

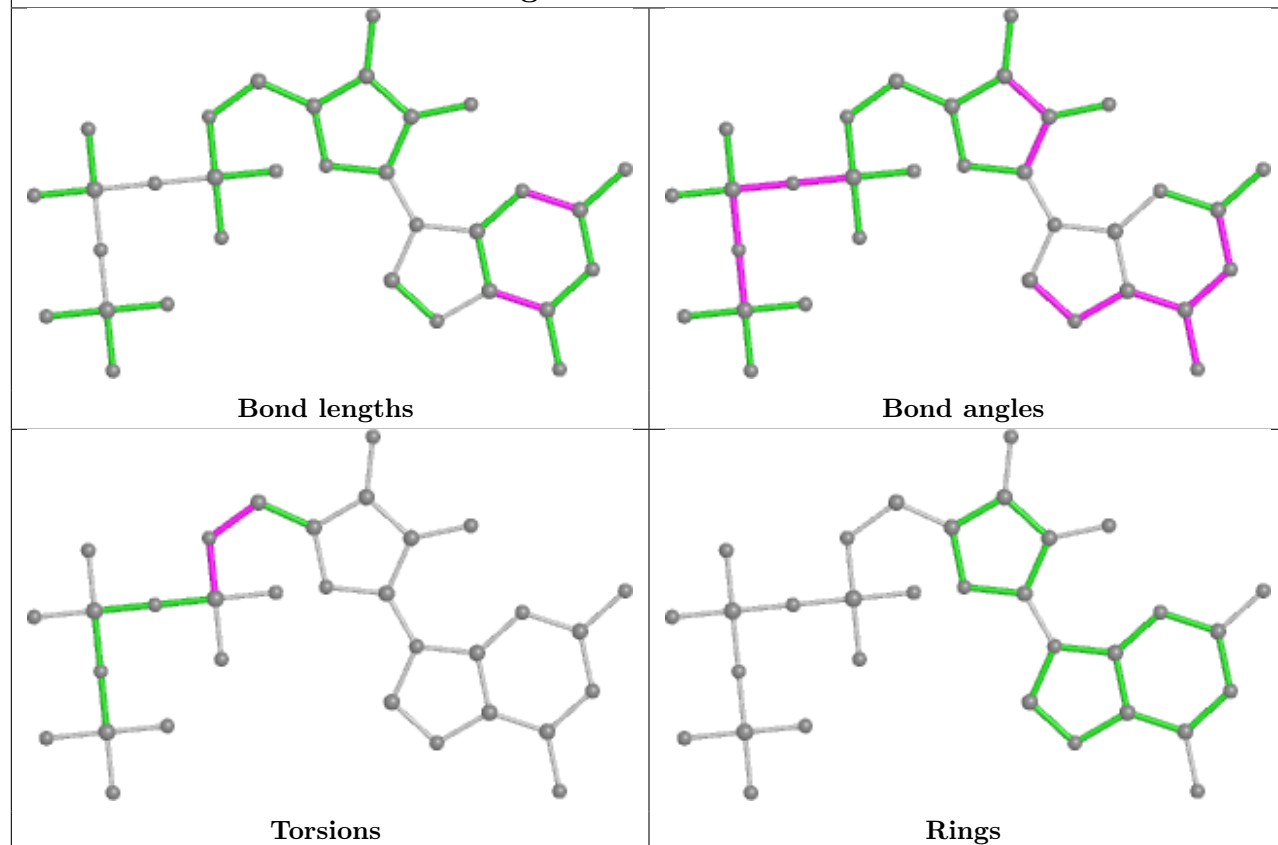


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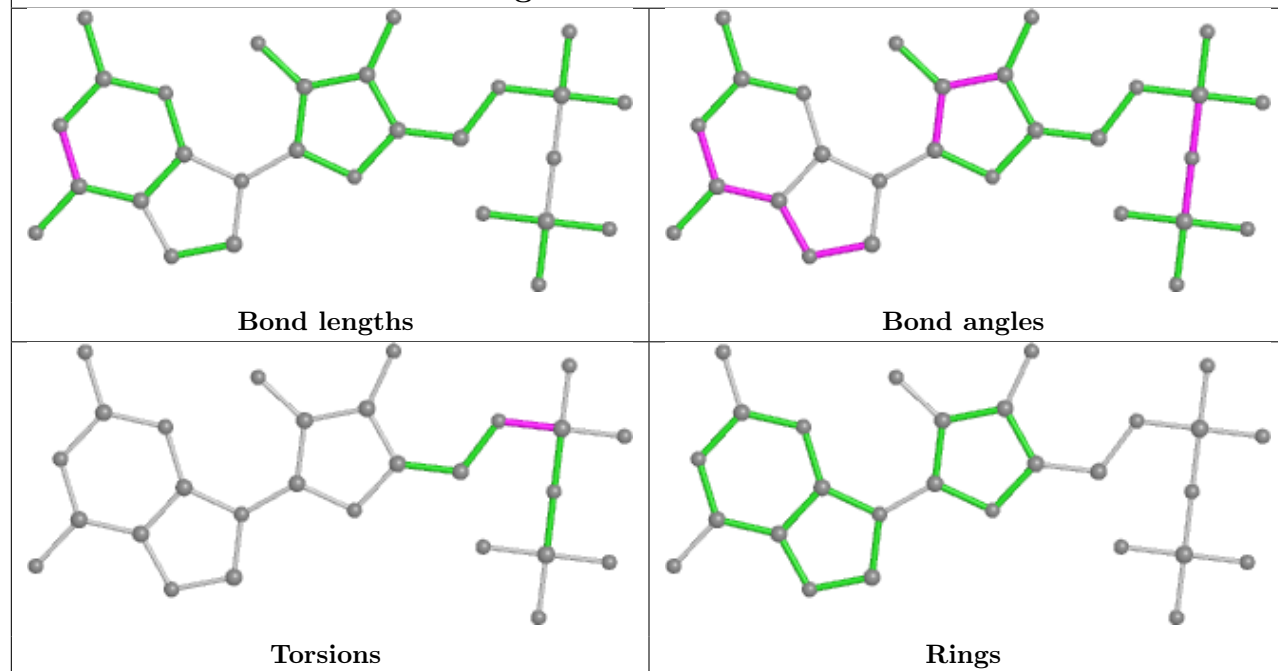




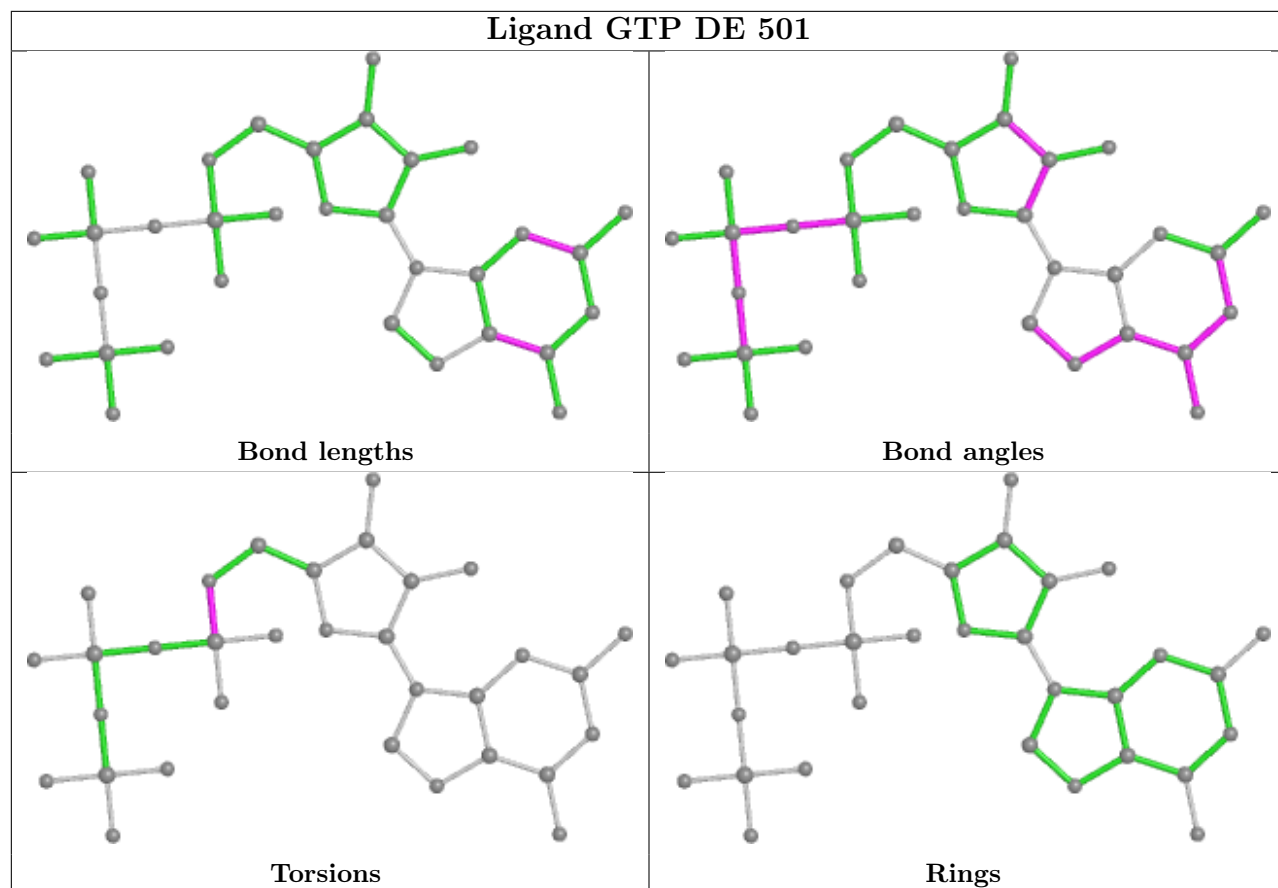
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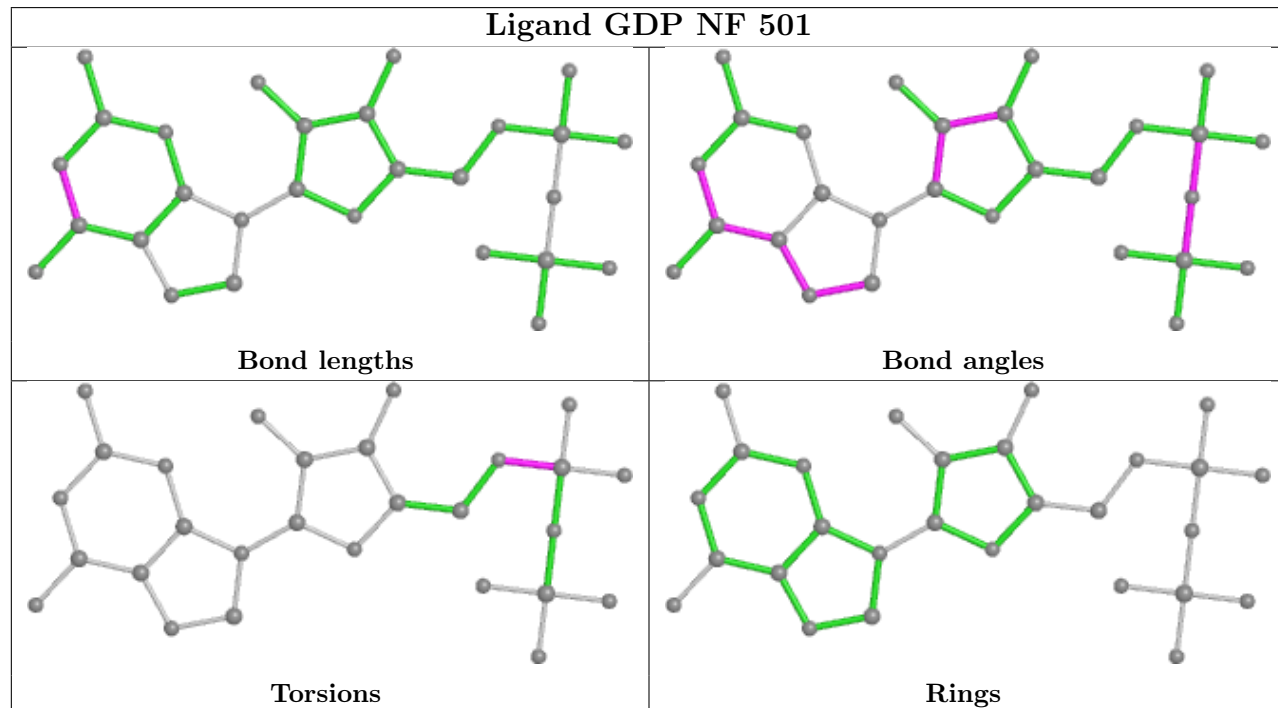
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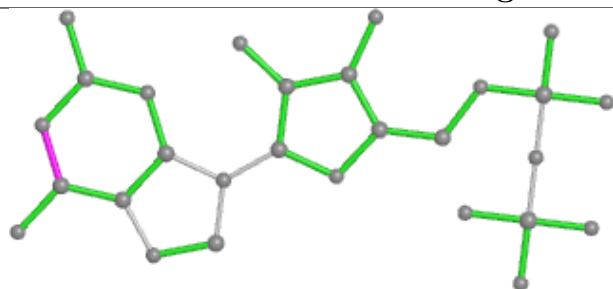
Ligand GTP DE 501



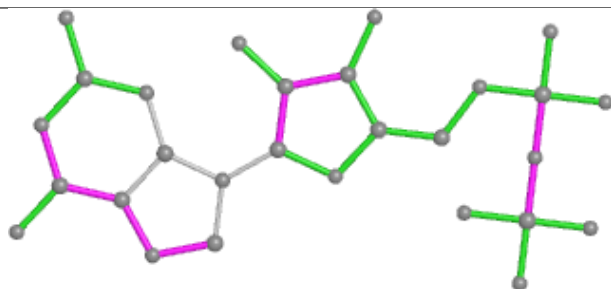
Ligand GDP NF 501



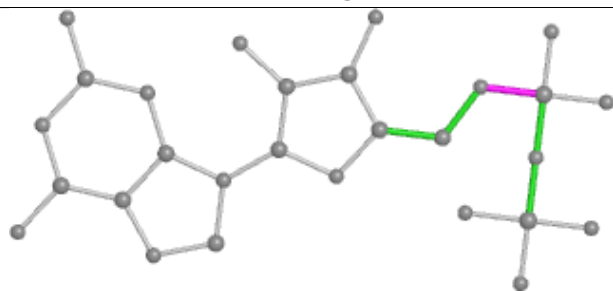
Ligand GDP KX 501



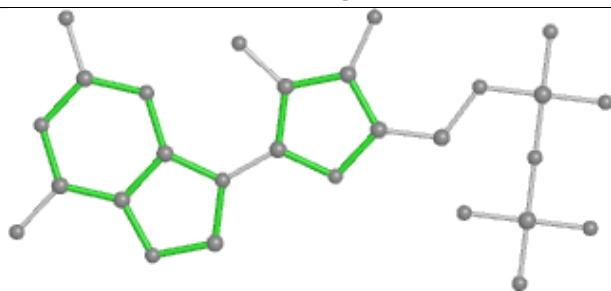
Bond lengths



Bond angles

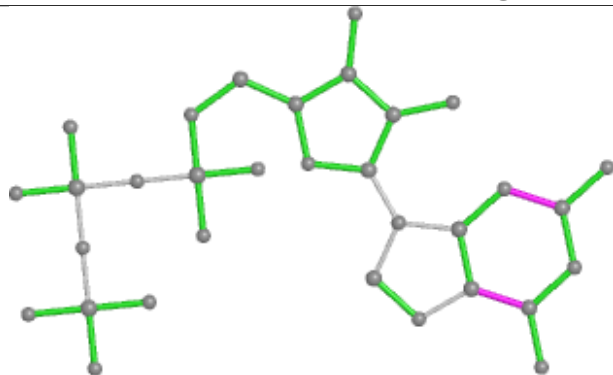


Torsions

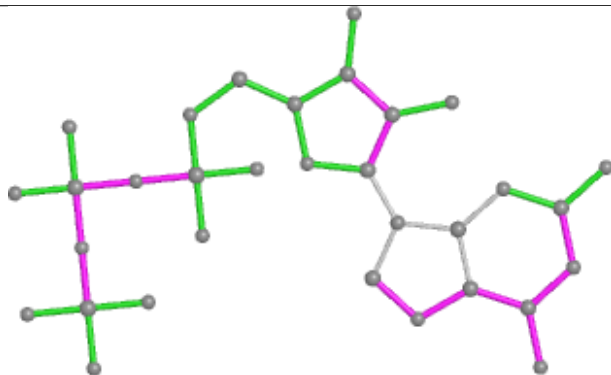


Rings

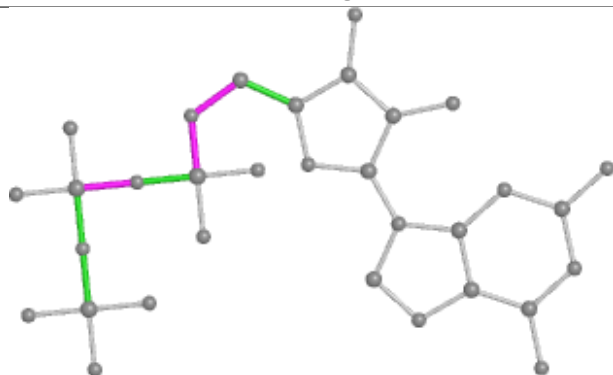
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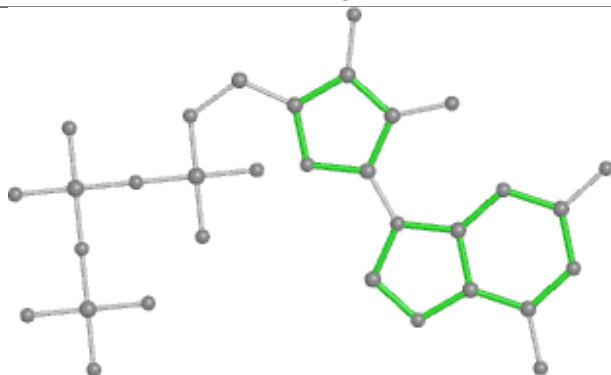
Bond lengths



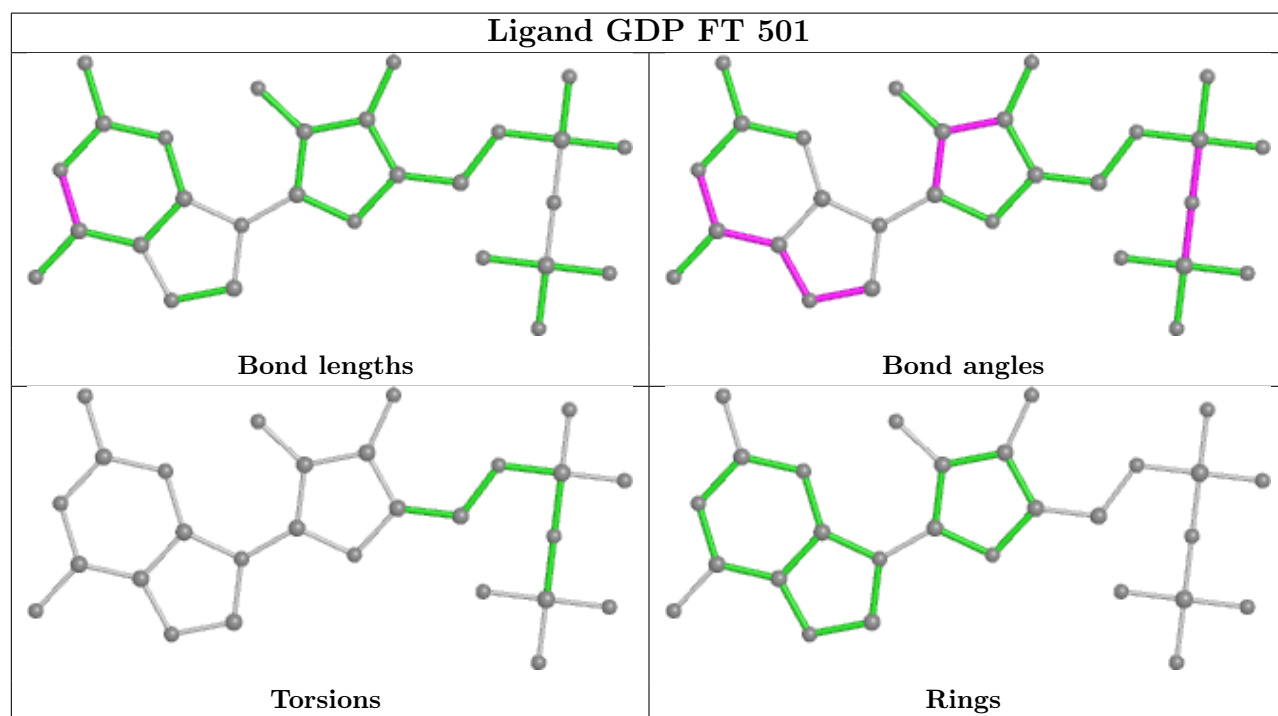
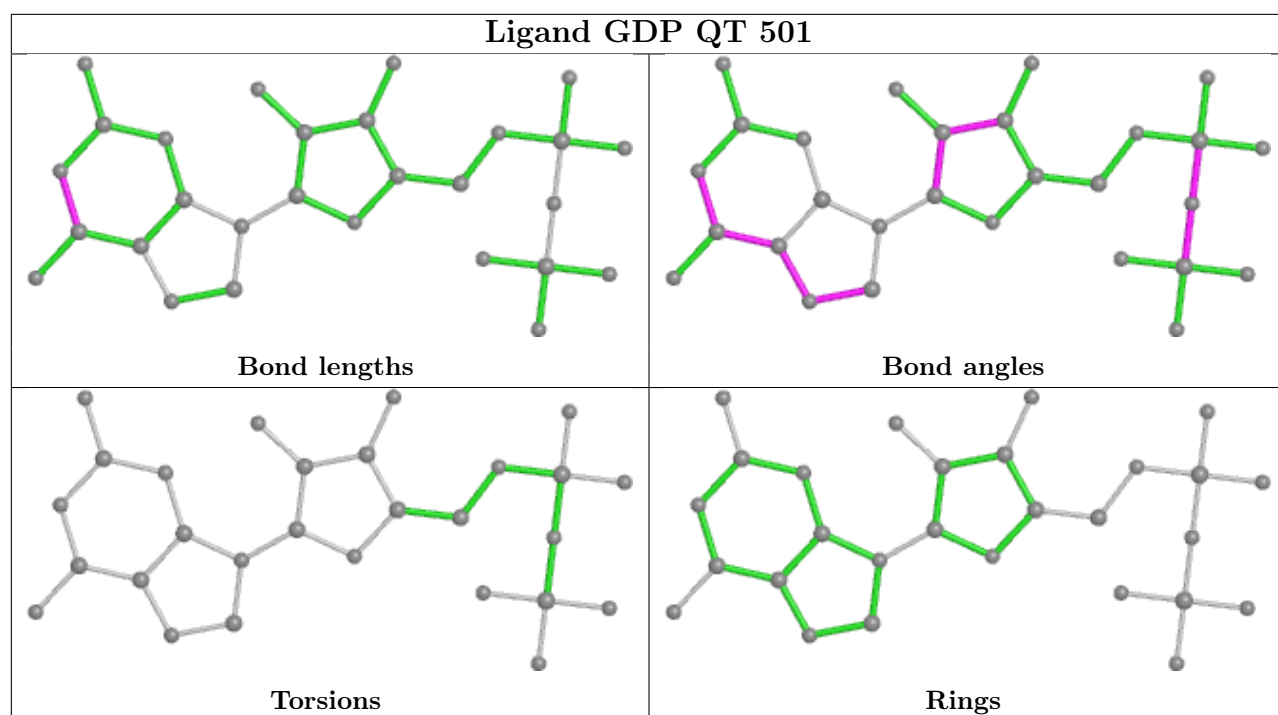
Bond angles

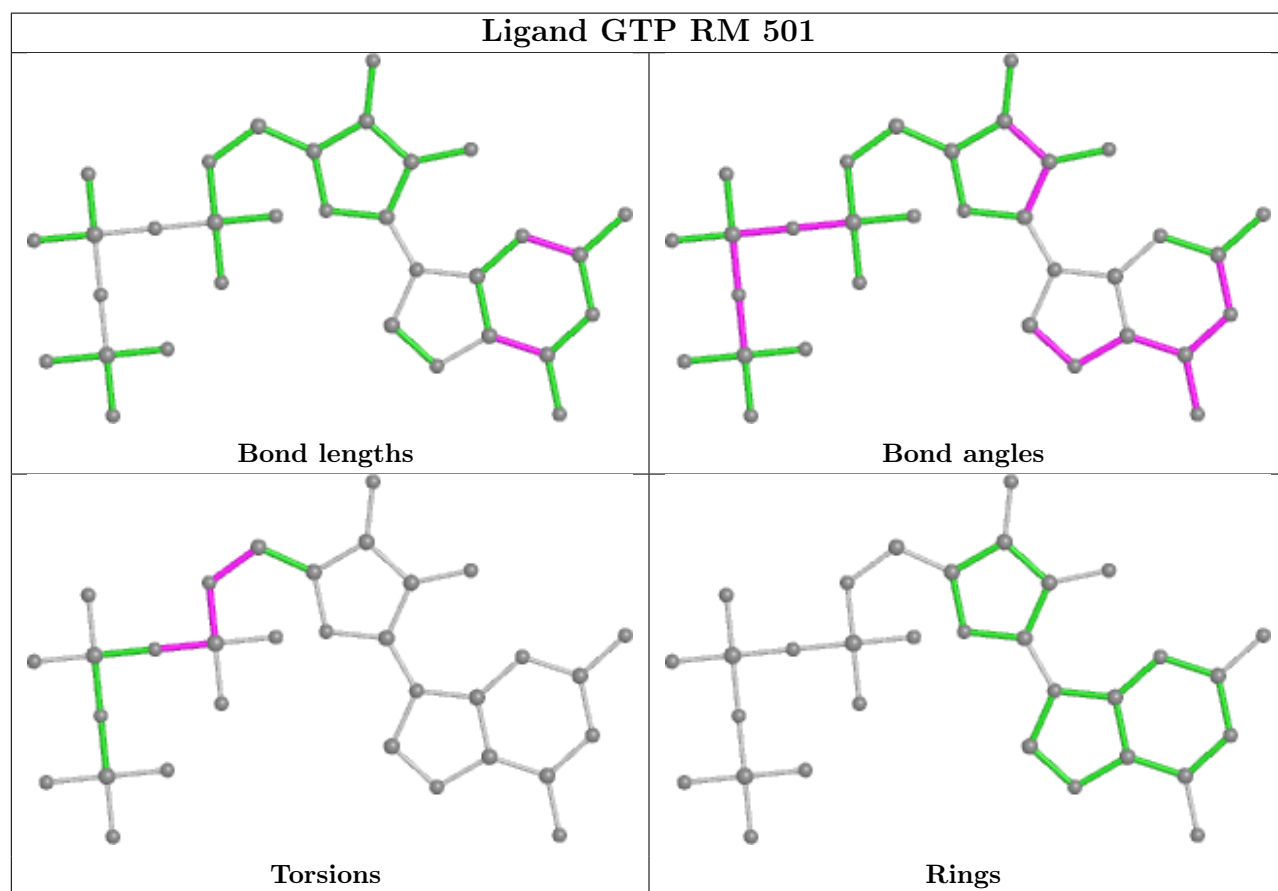
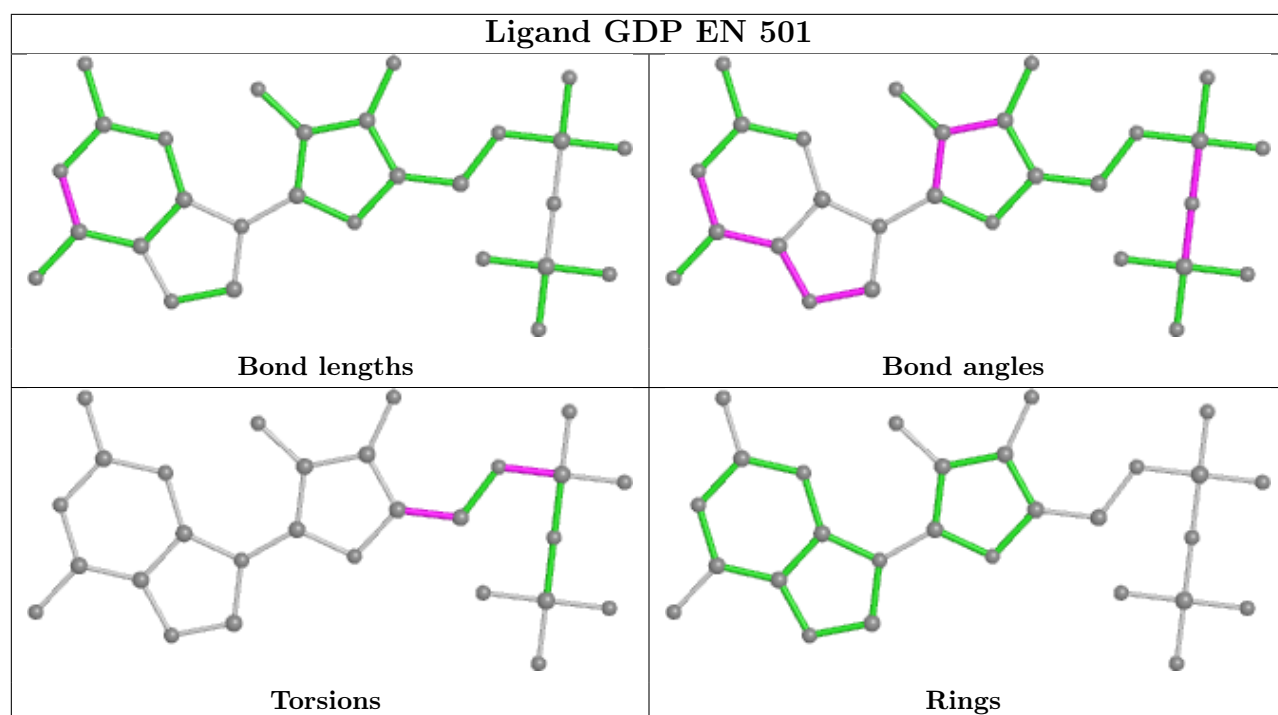


Torsions

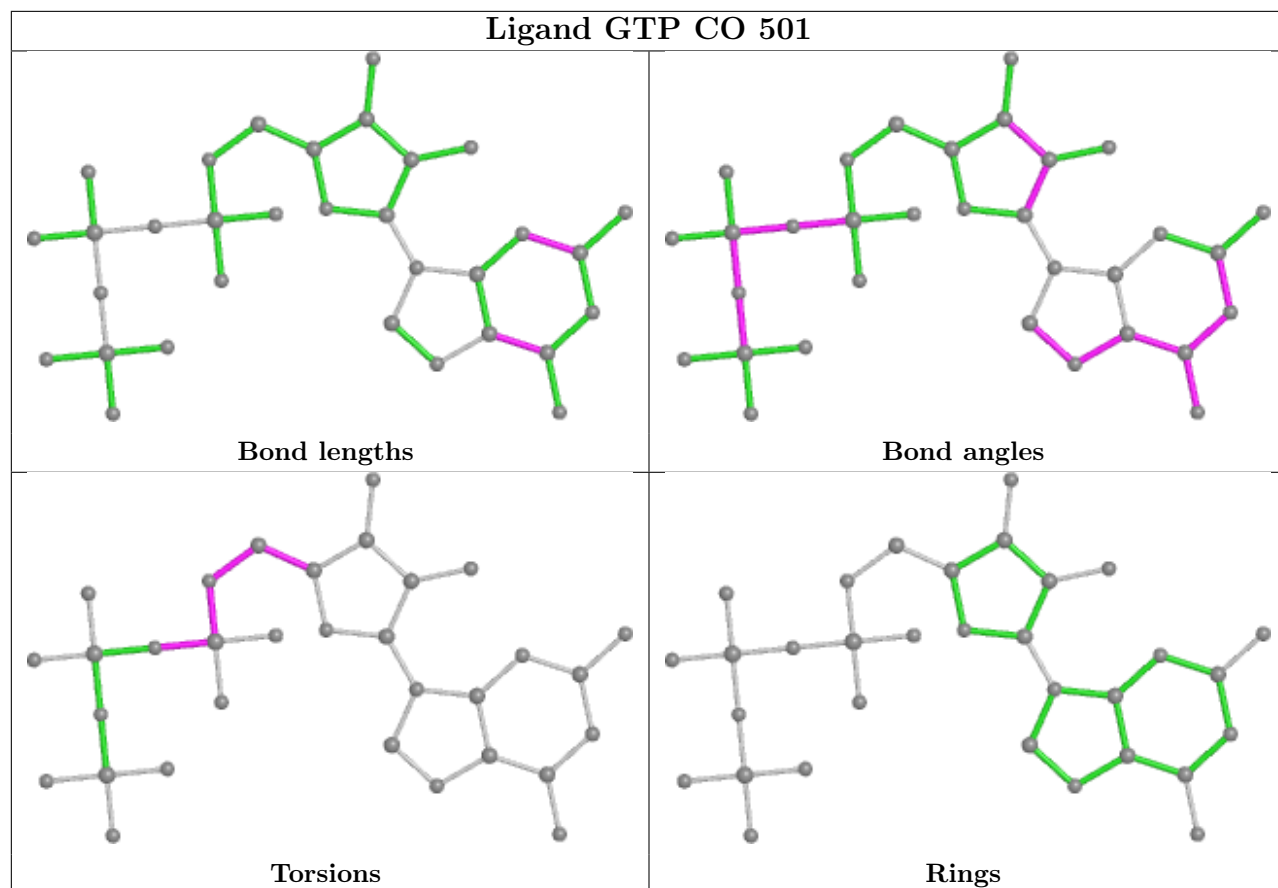


Rings

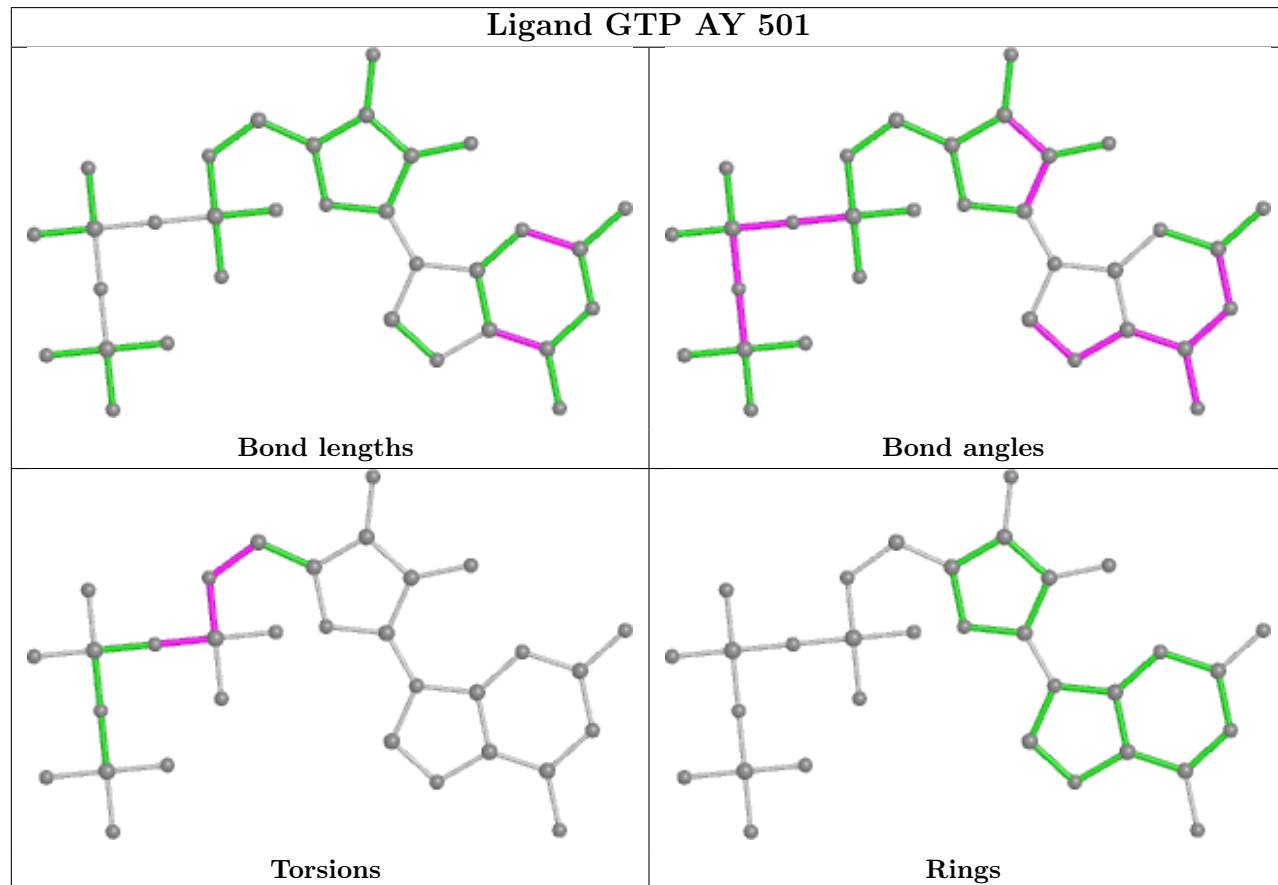




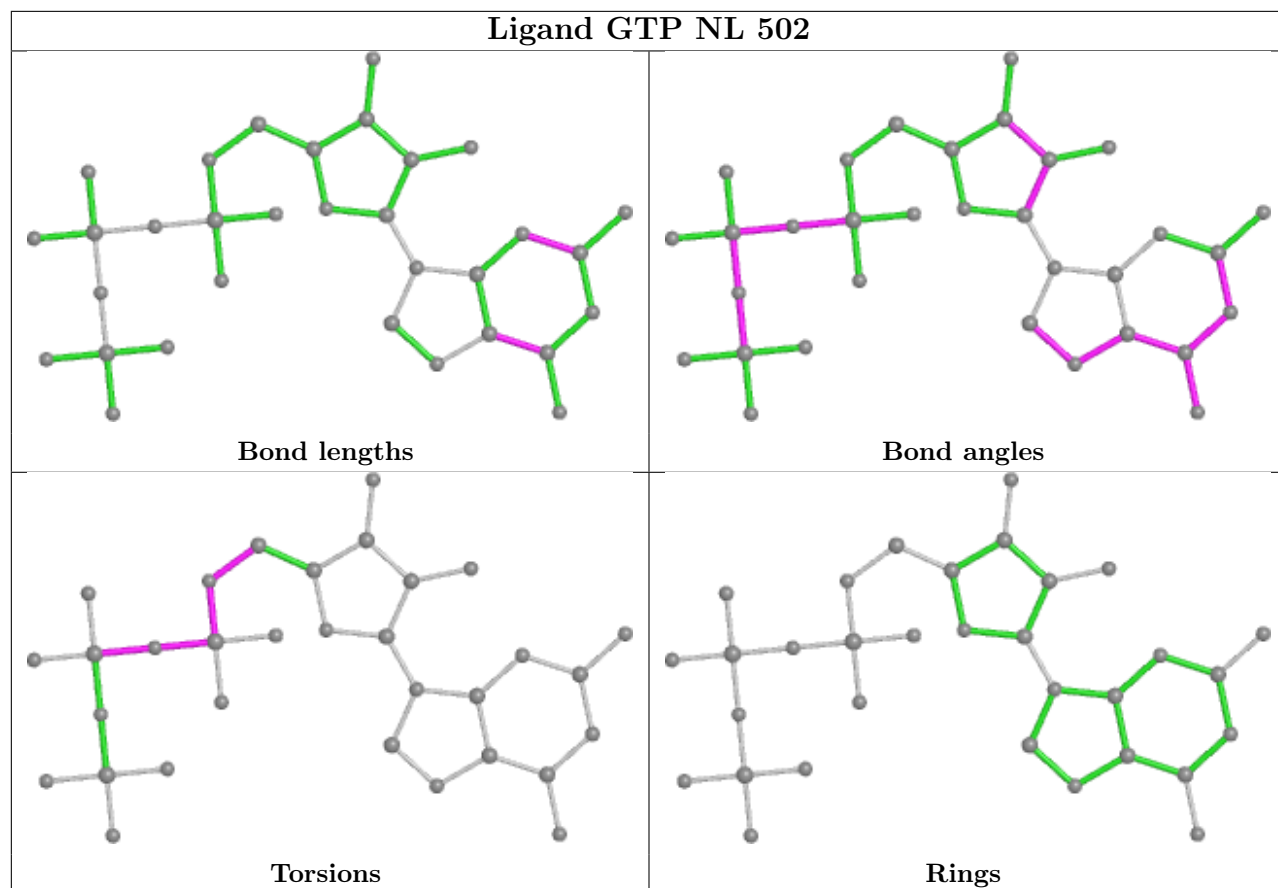
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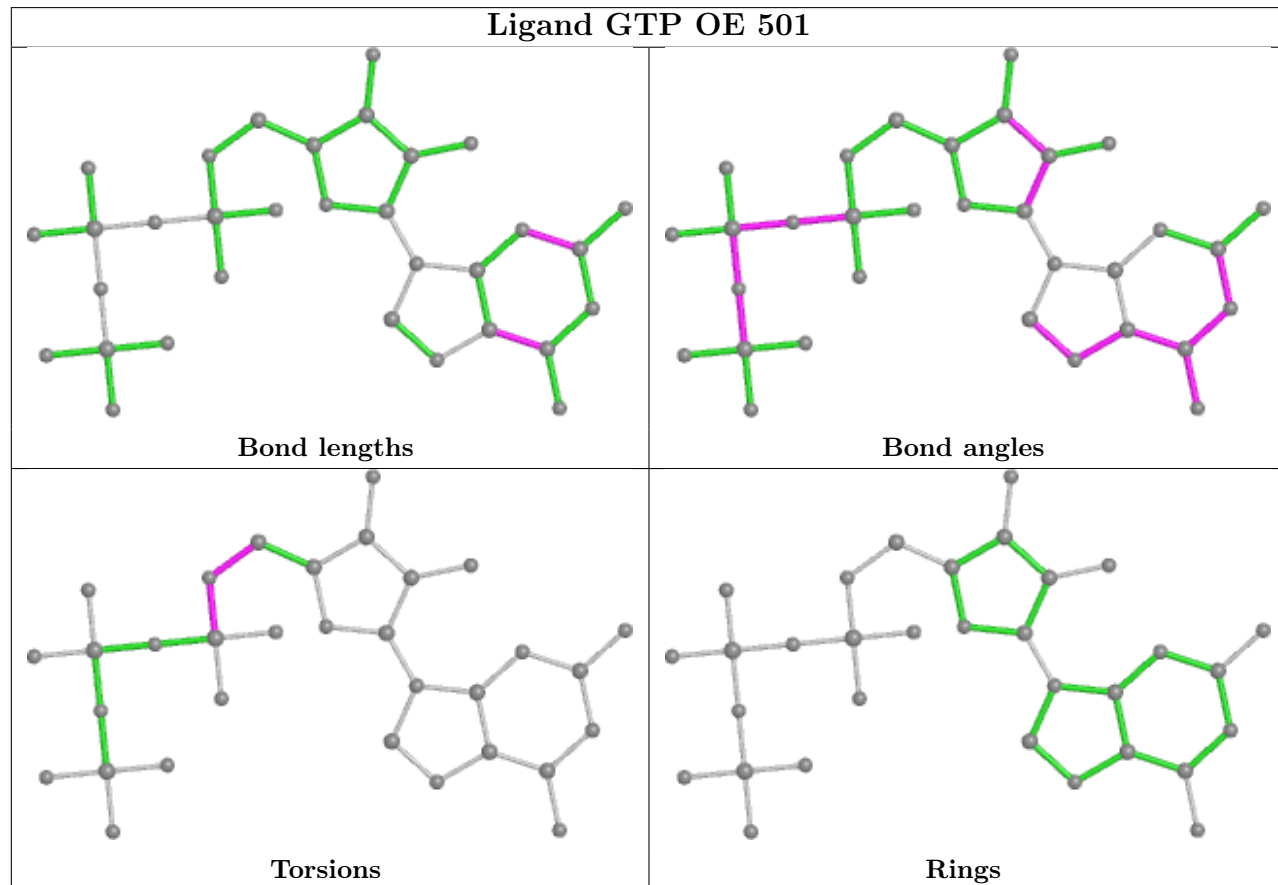
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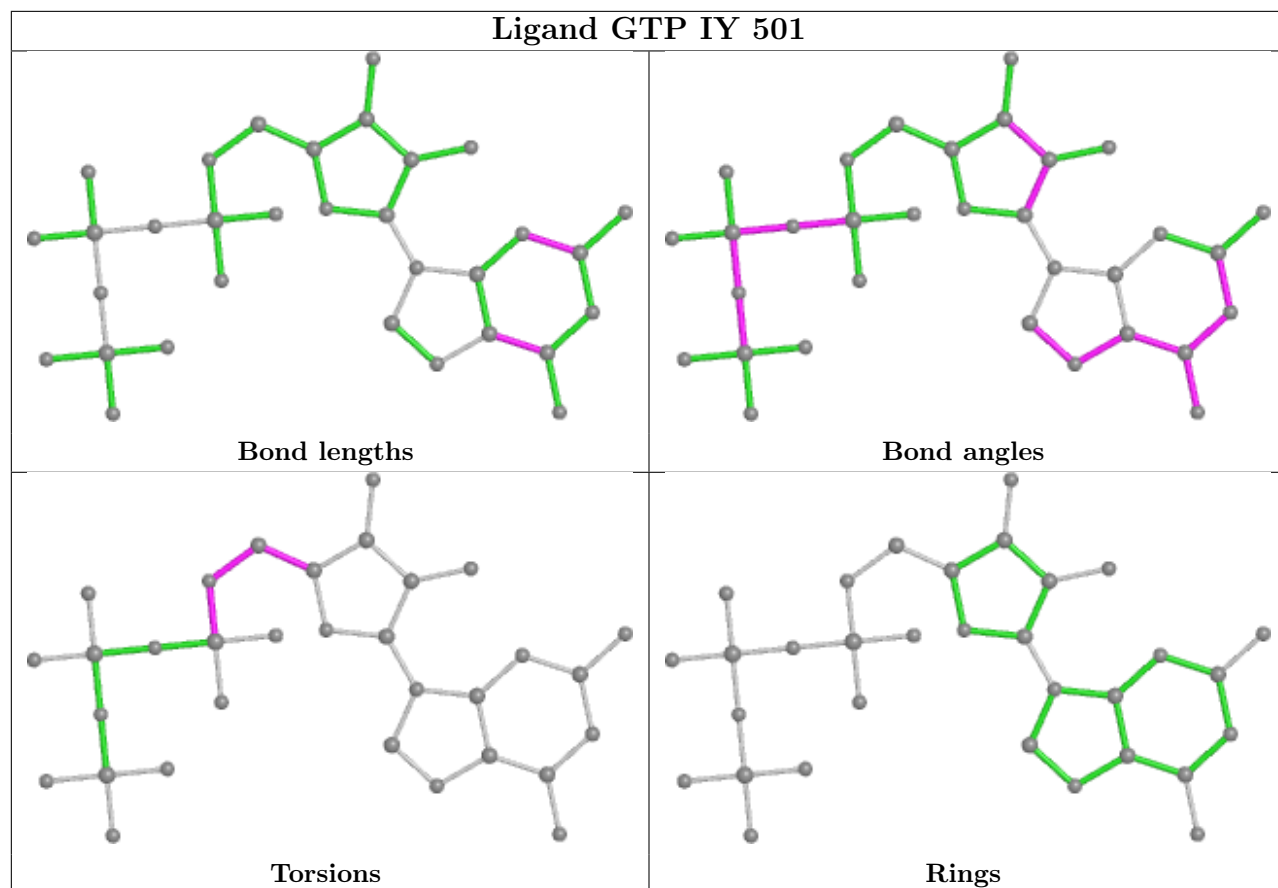
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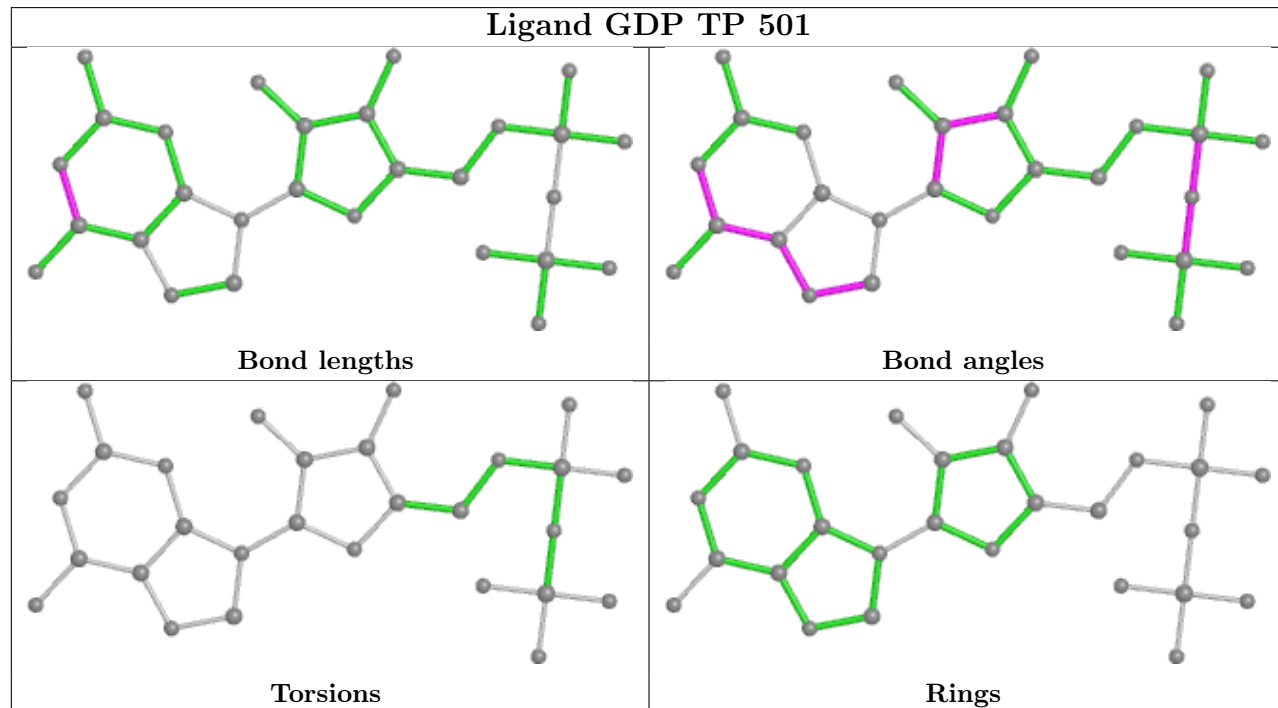
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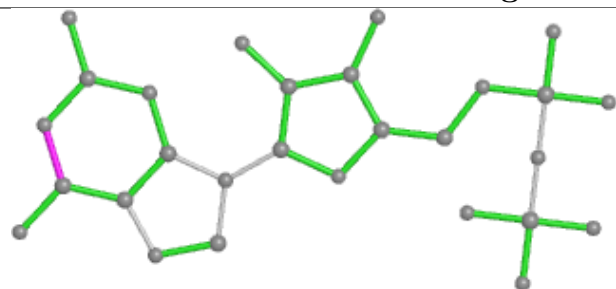
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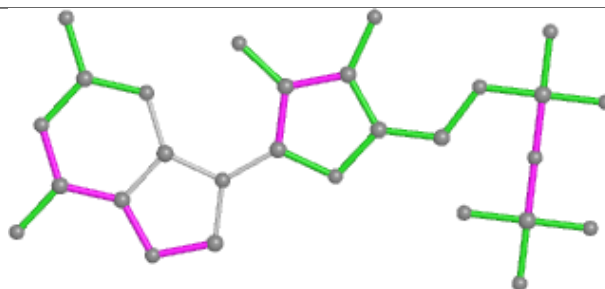
Ligand GDP TP 501



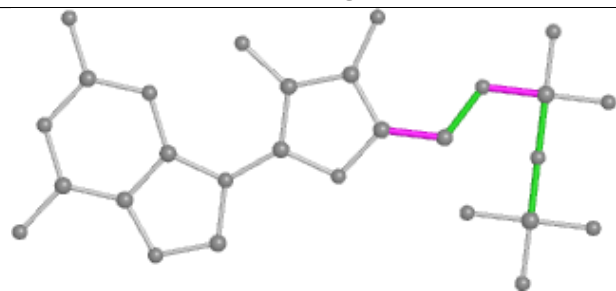
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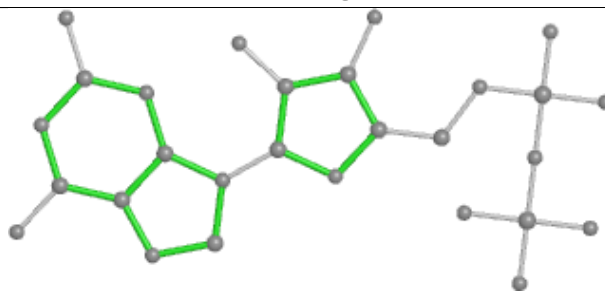
Bond lengths



Bond angles

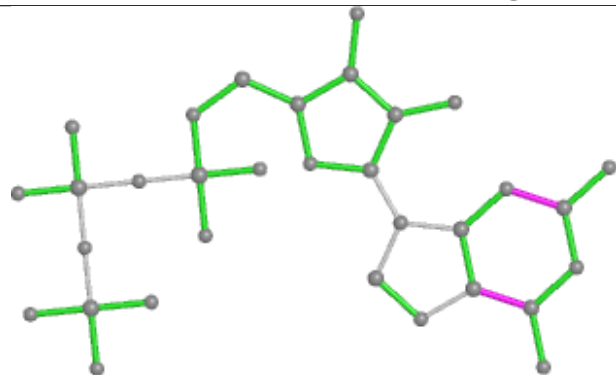


Torsions

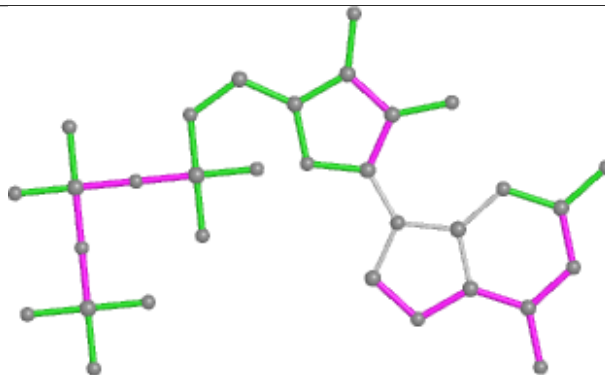


Rings

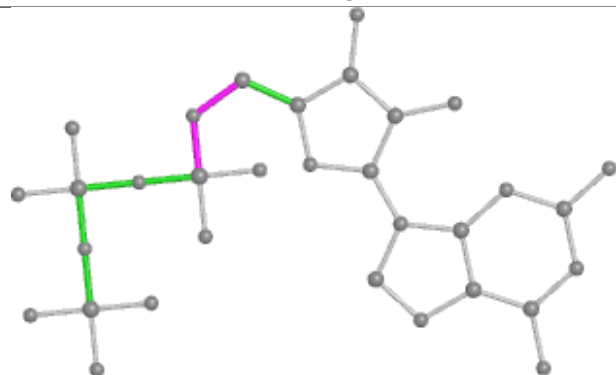
Ligand GTP LY 501



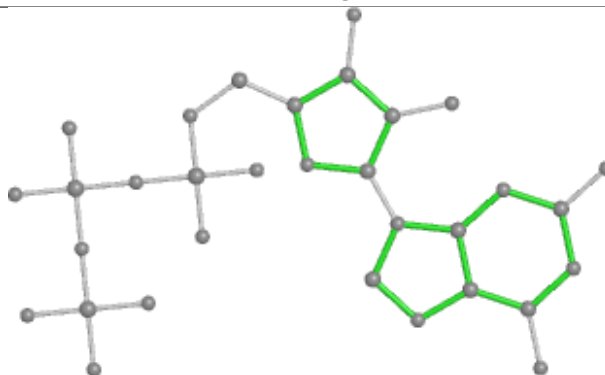
Bond lengths



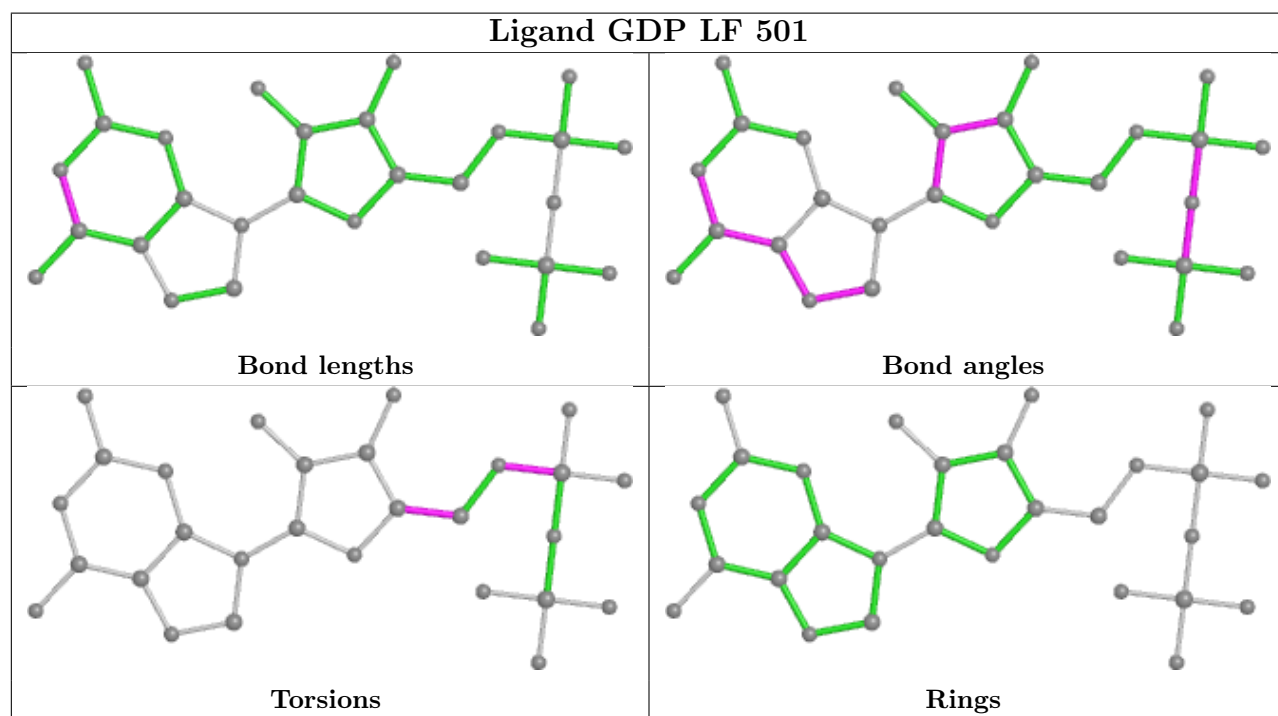
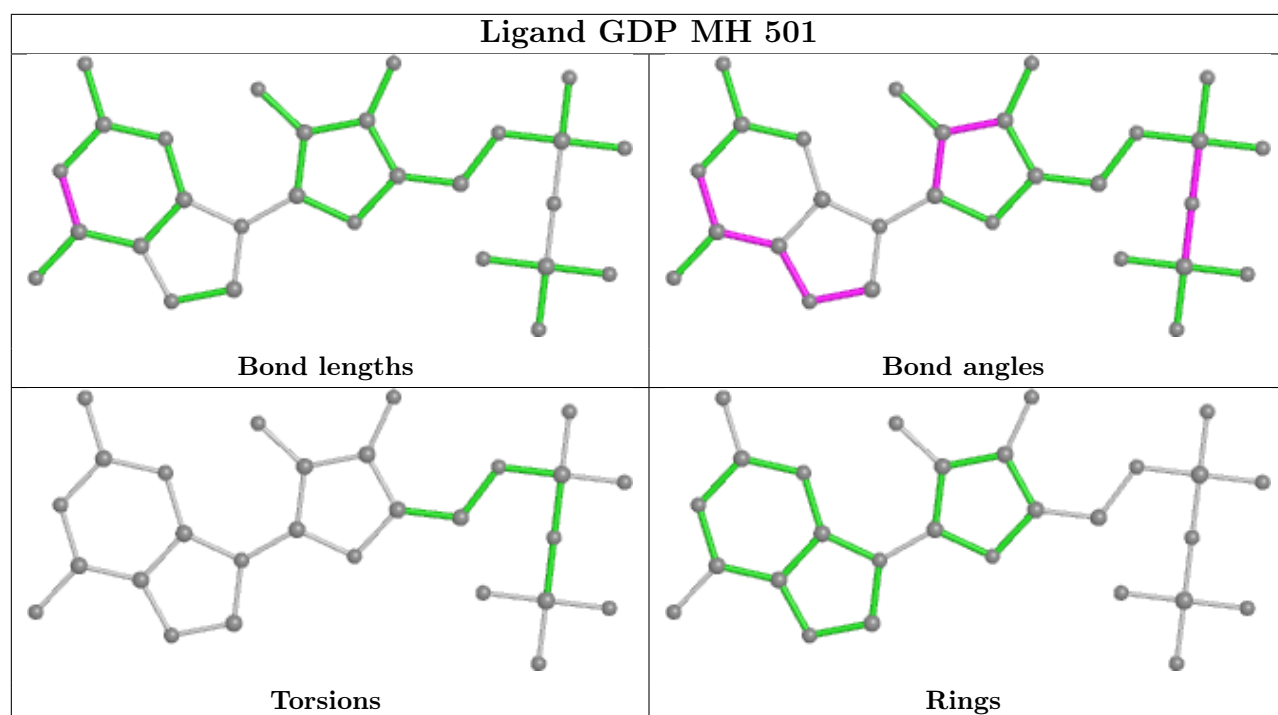
Bond angles

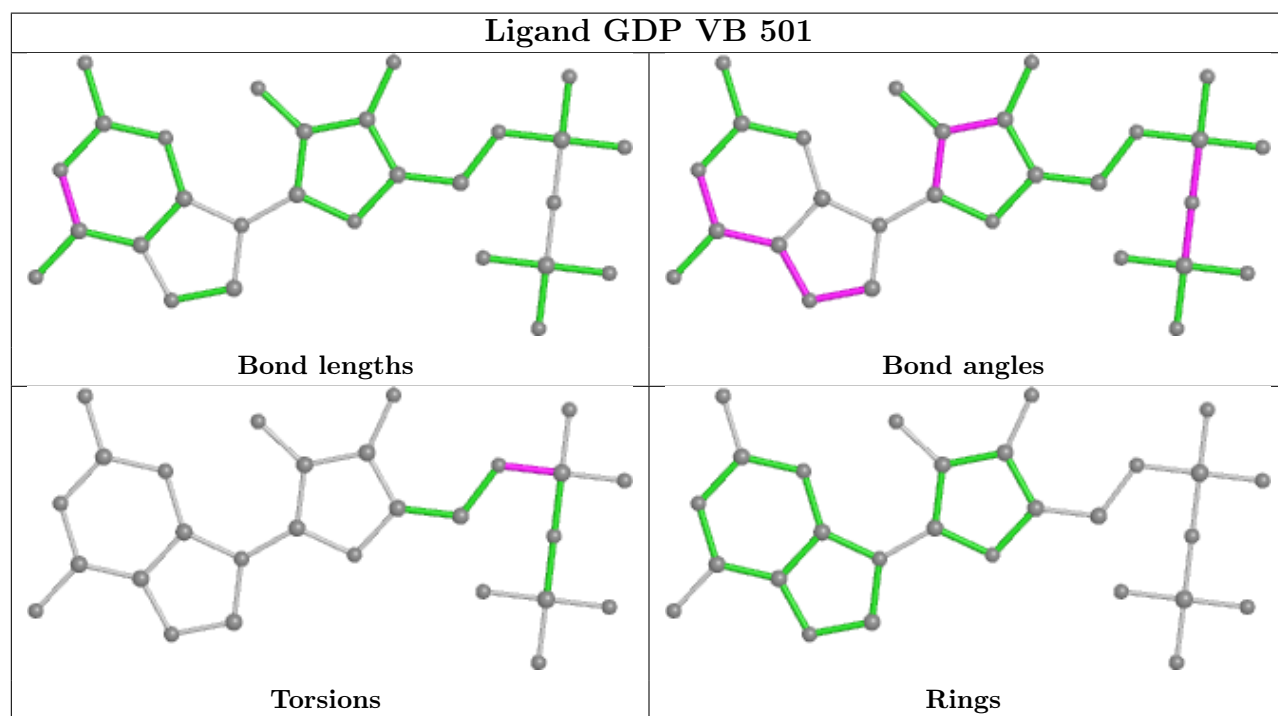
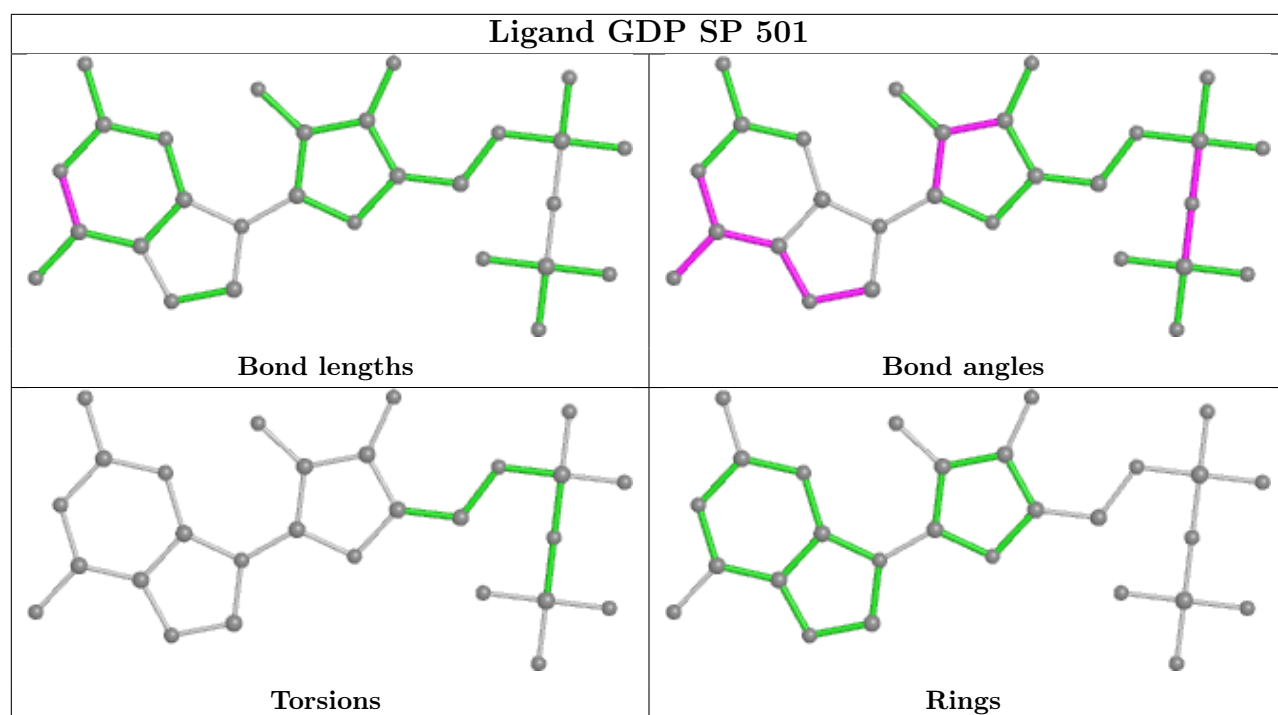


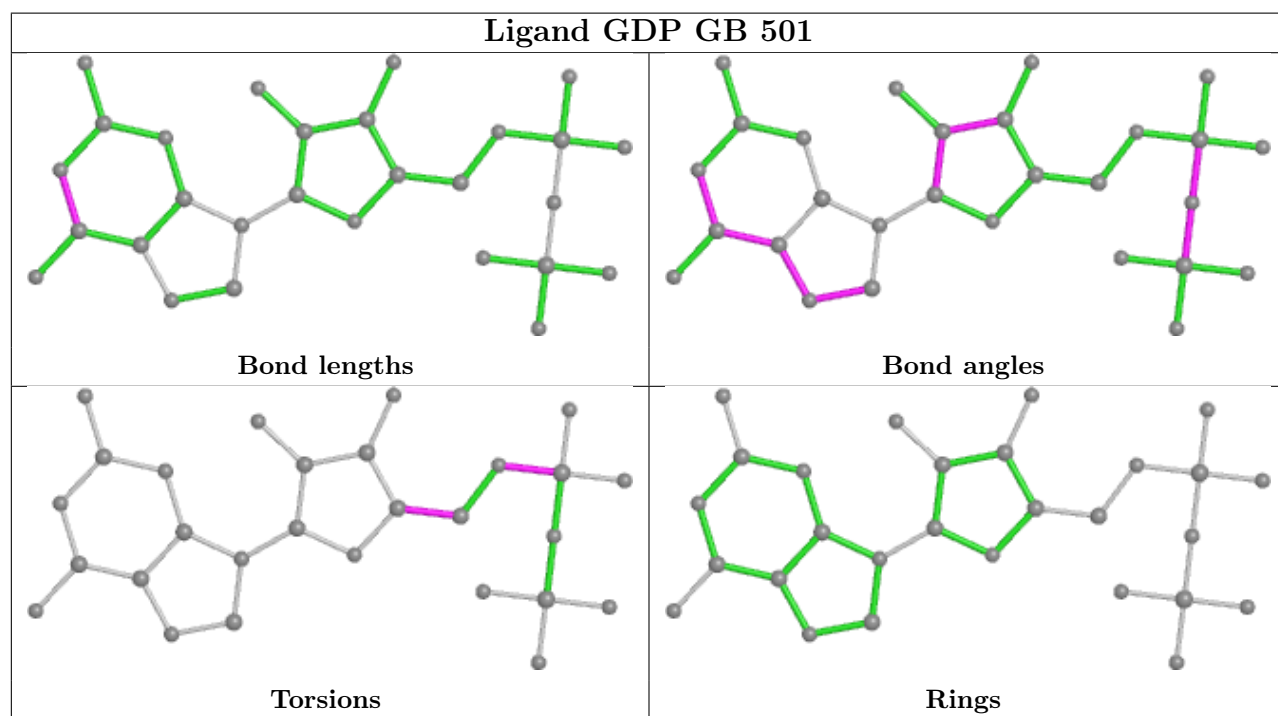
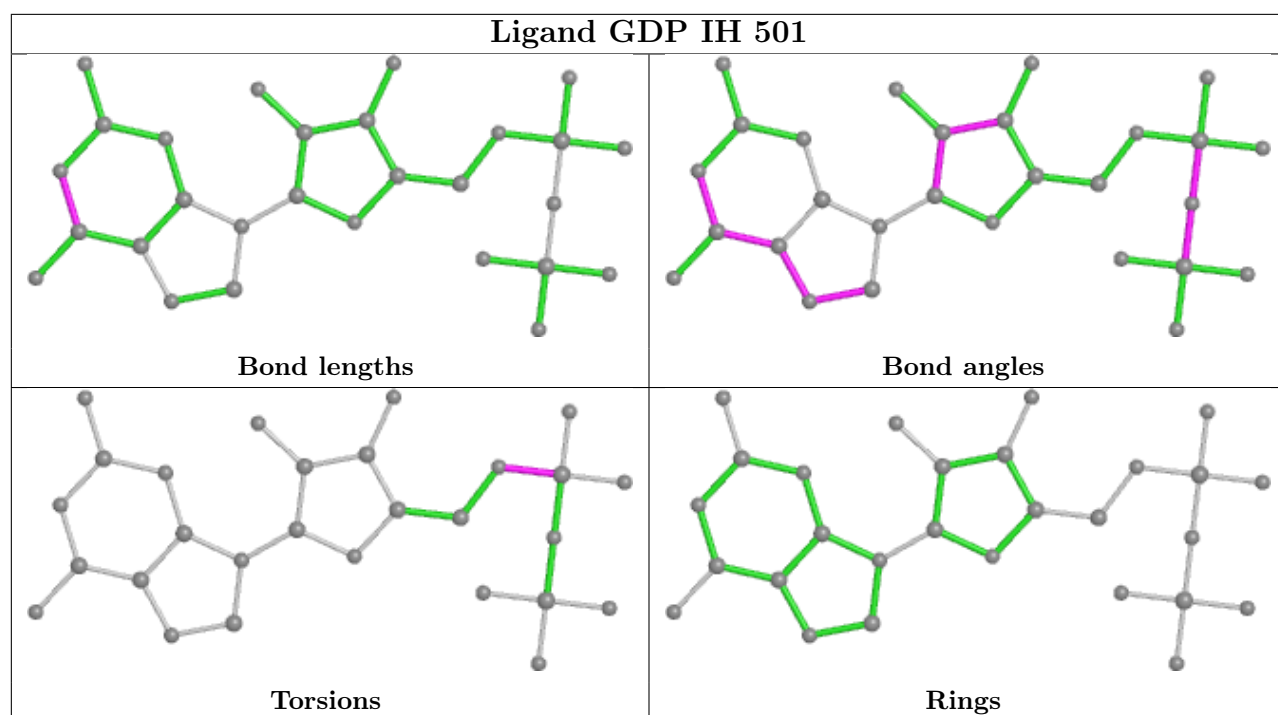
Torsions

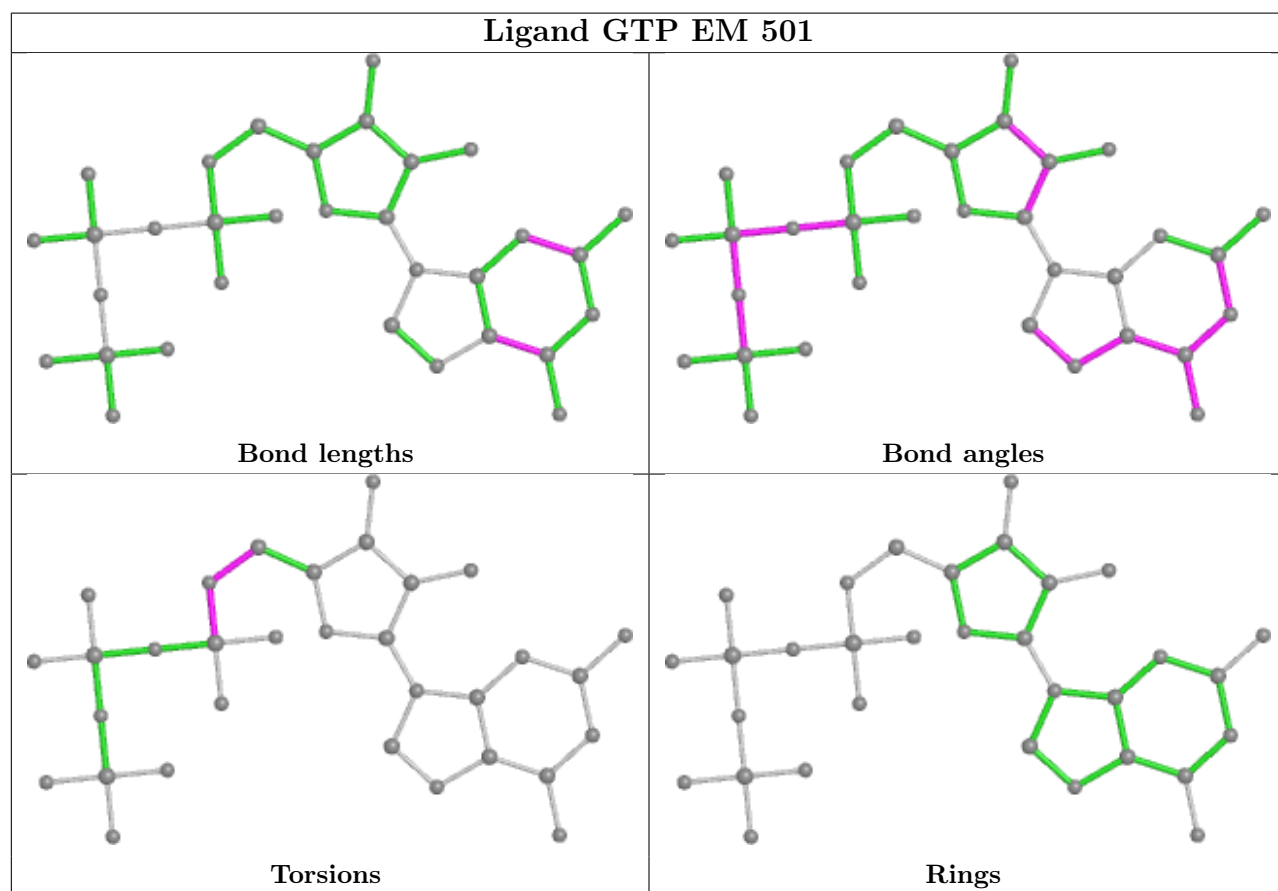
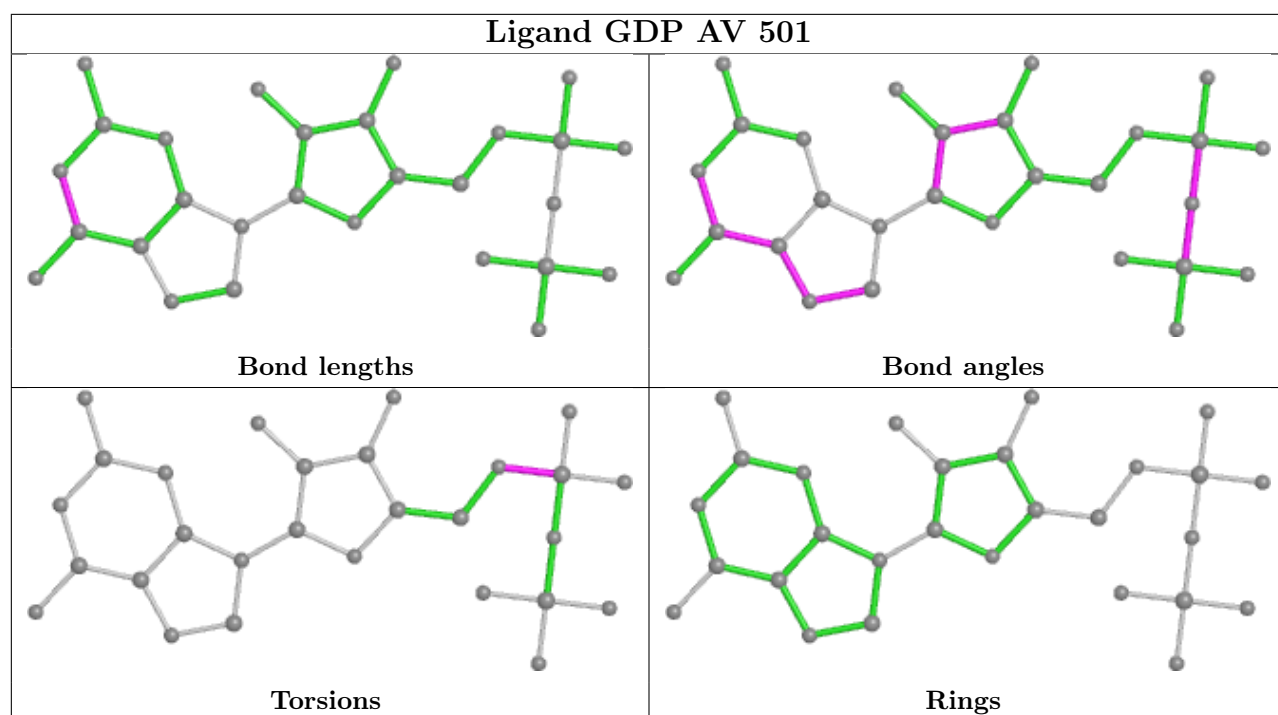


Rings

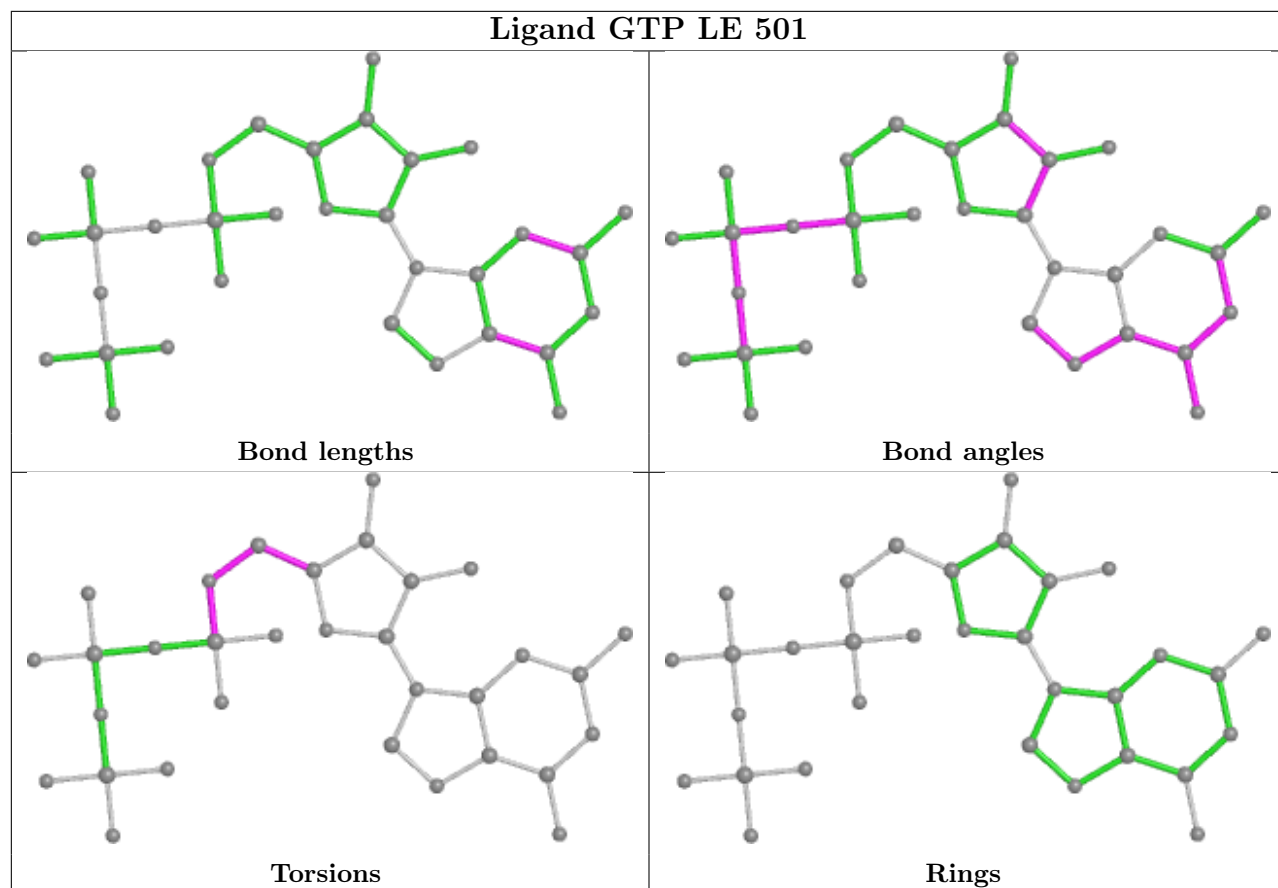




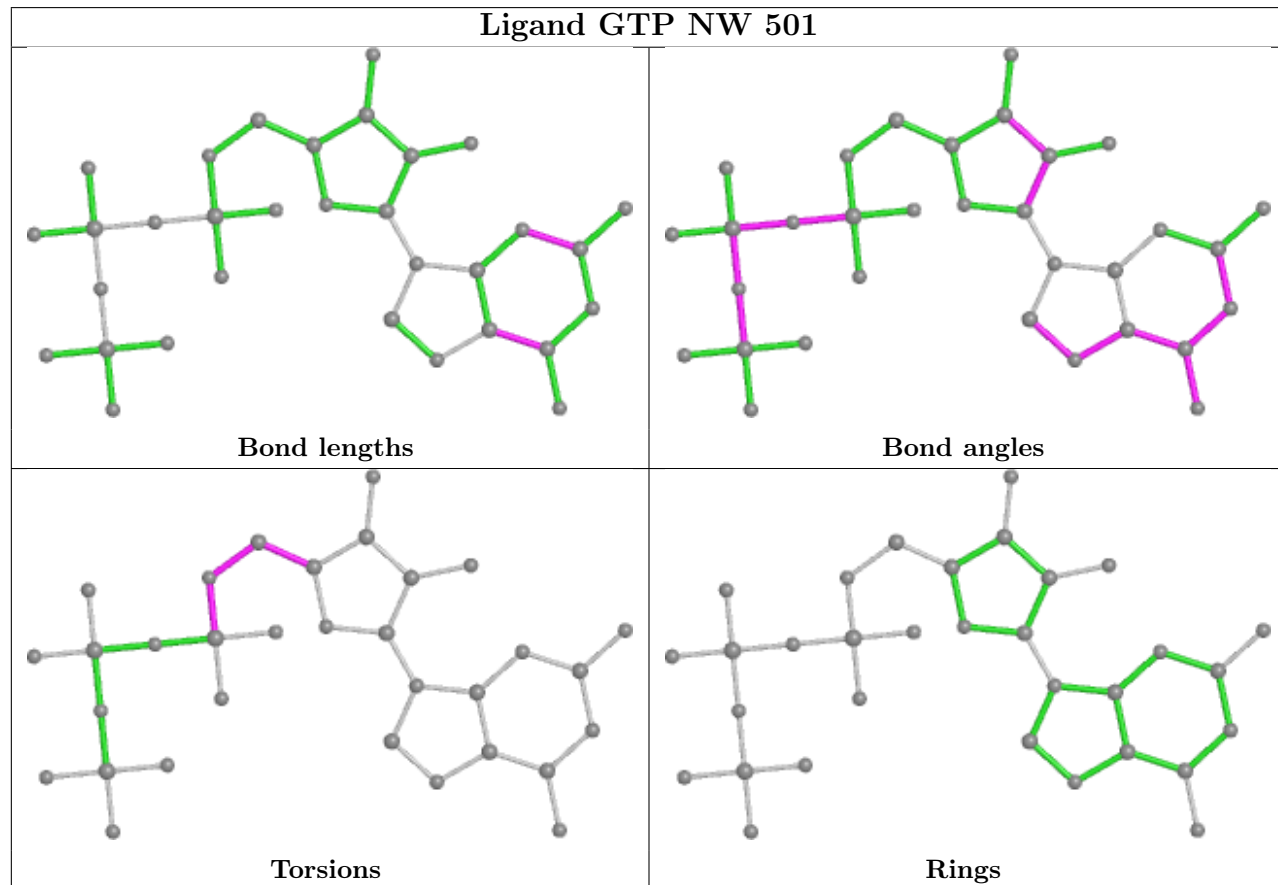


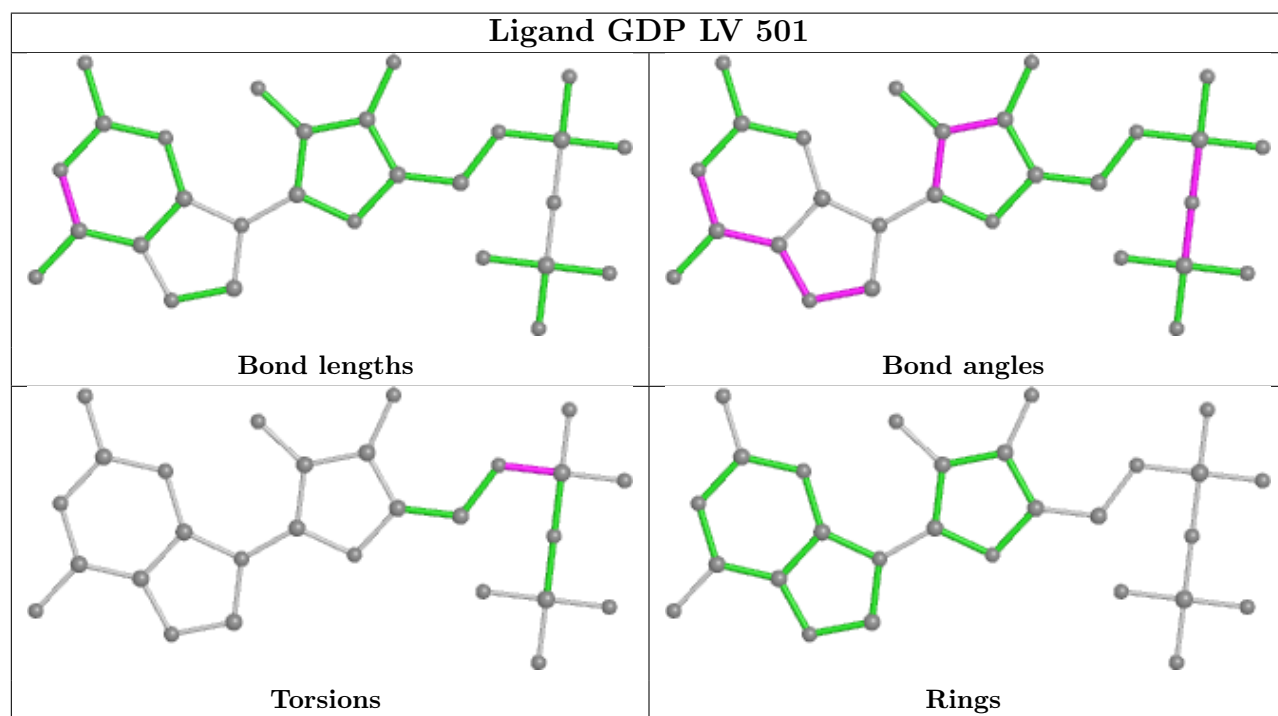
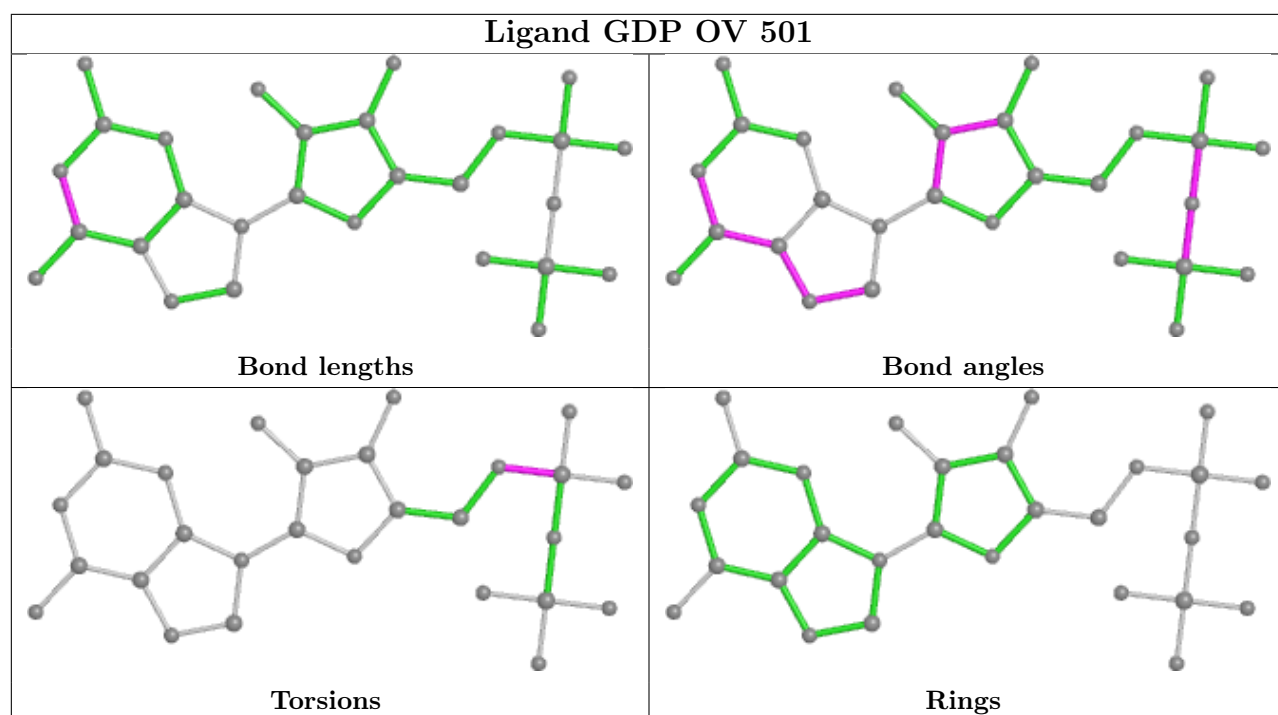


Ligand GTP LE 501

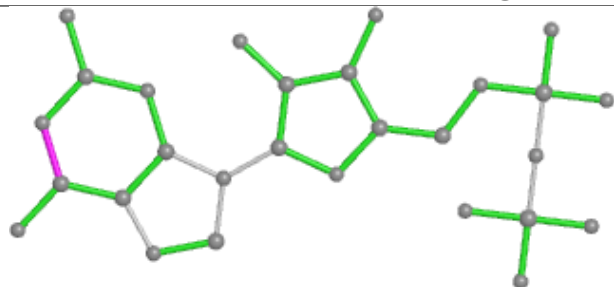


Ligand GTP NW 501

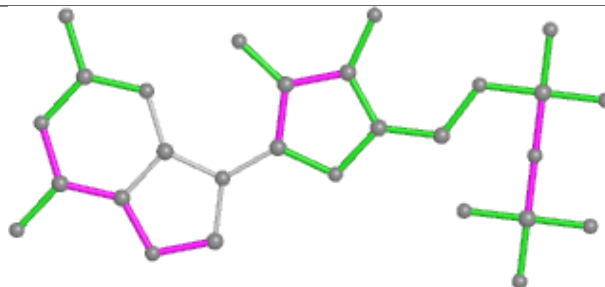




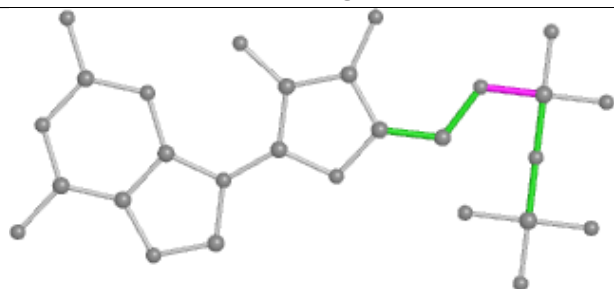
Ligand GDP GN 501



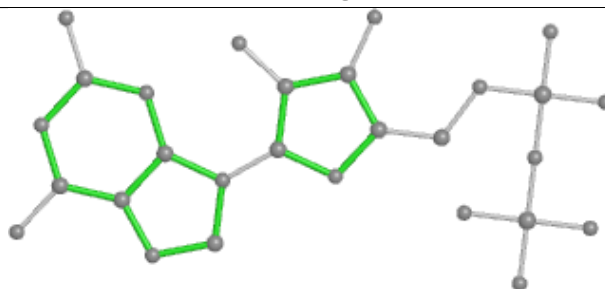
Bond lengths



Bond angles

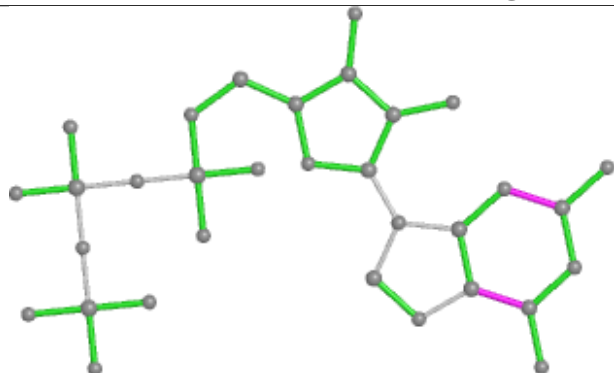


Torsions

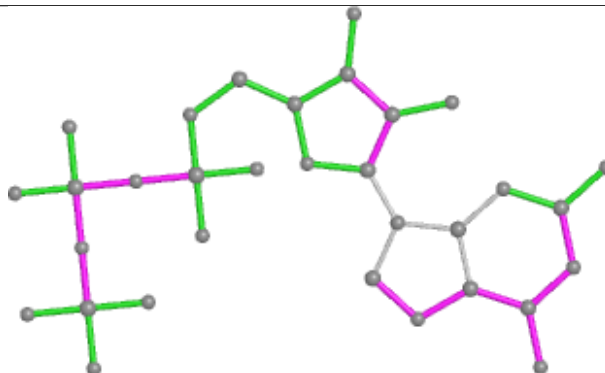


Rings

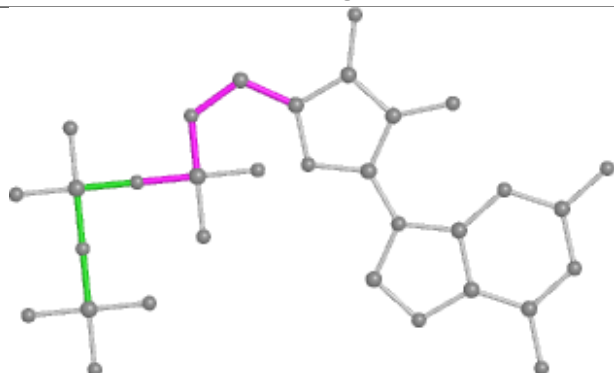
Ligand GTP BS 501



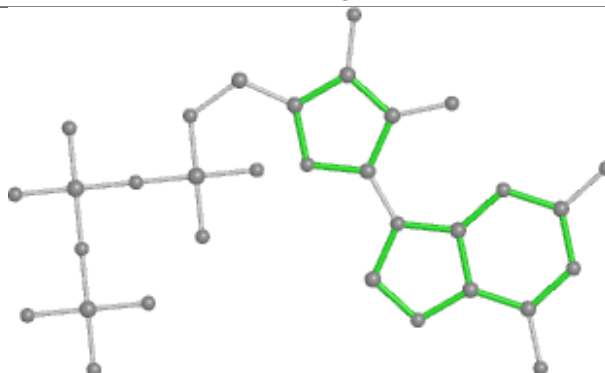
Bond lengths



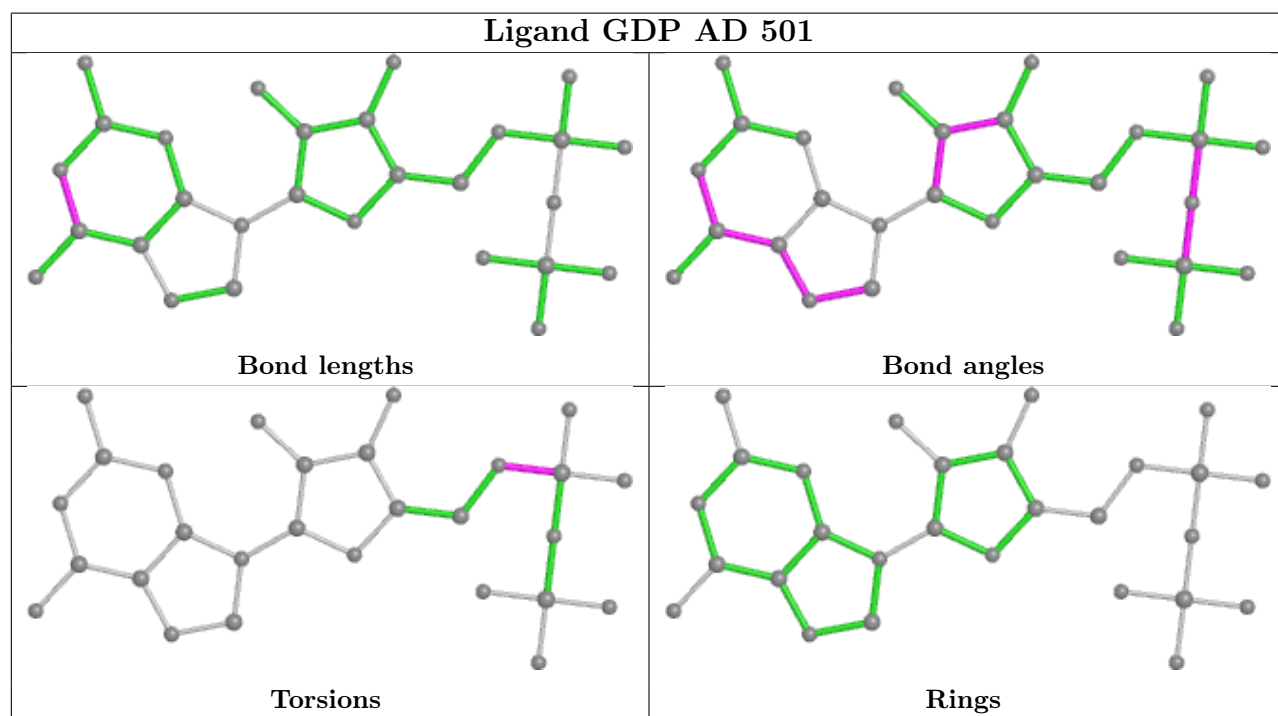
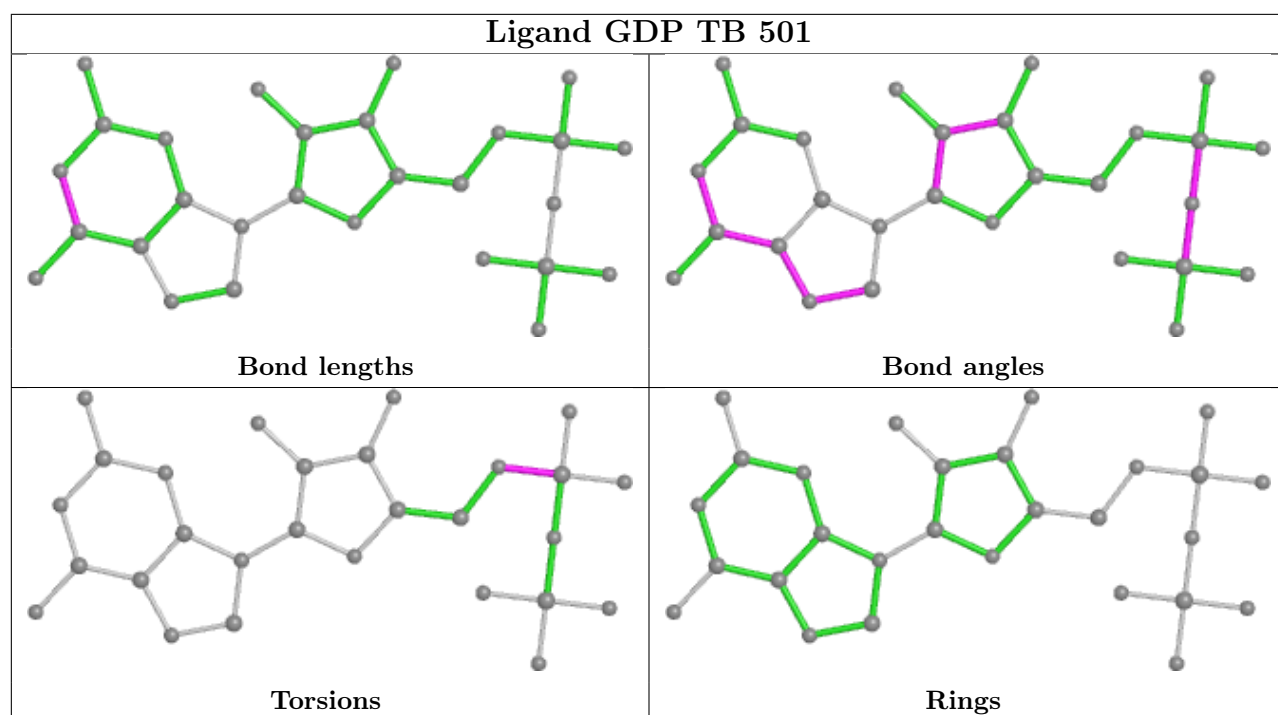
Bond angles



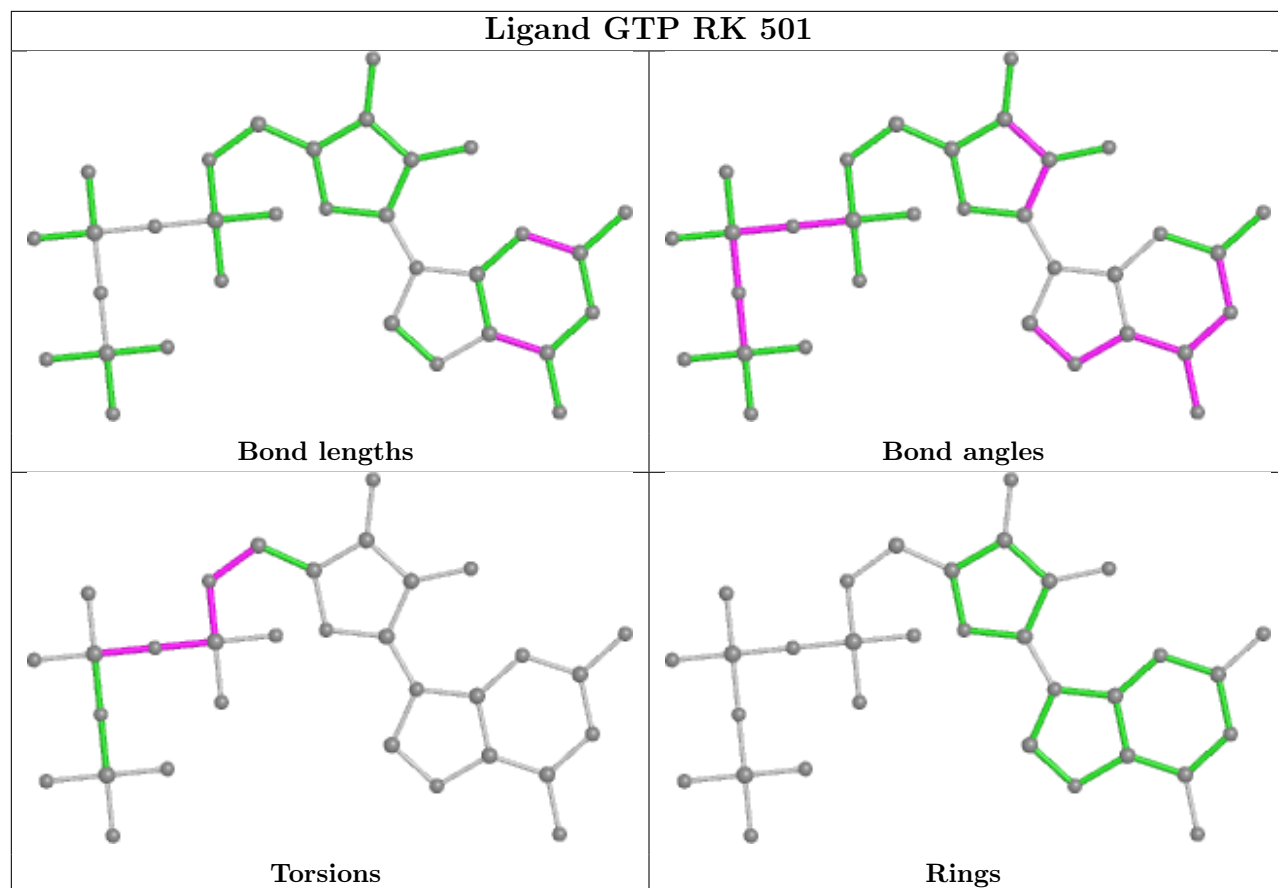
Torsions



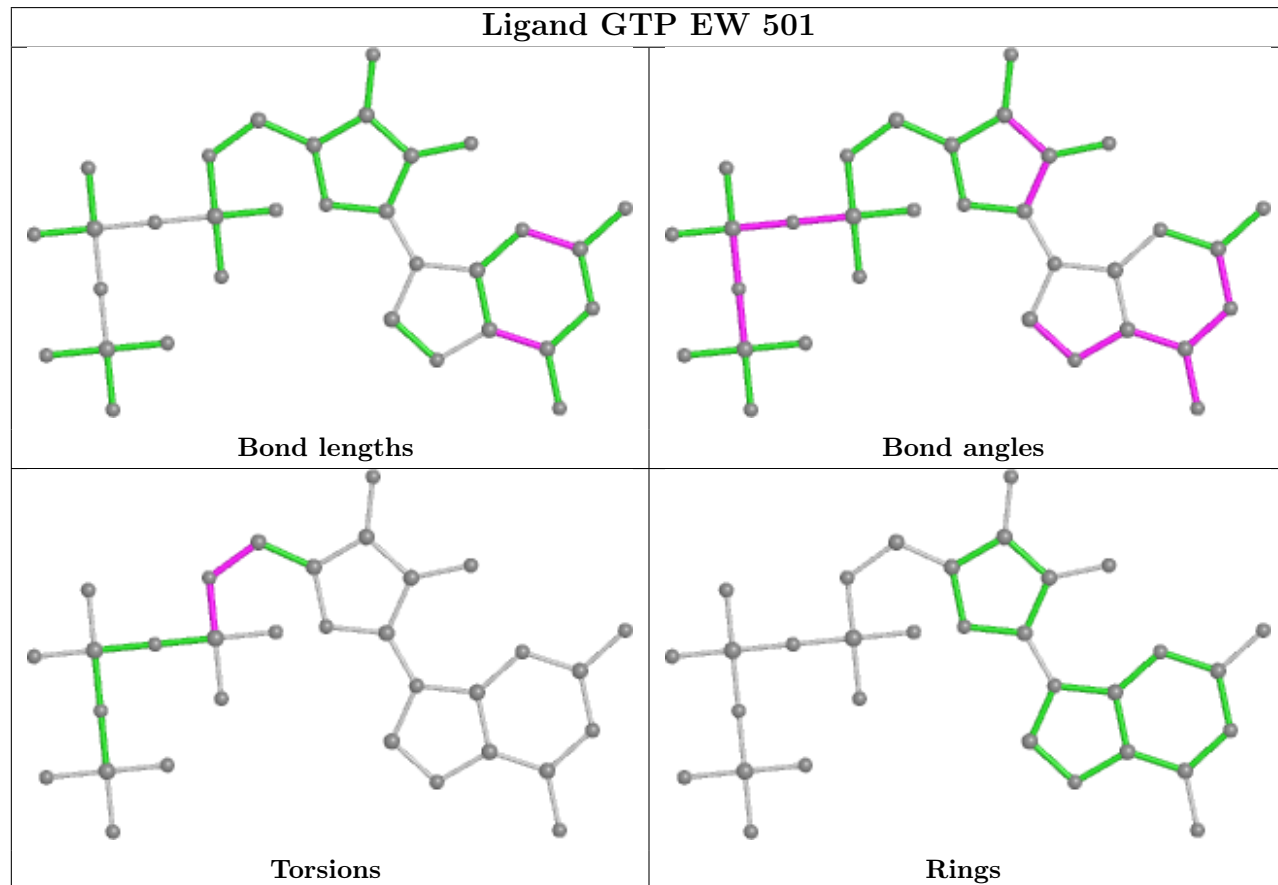
Rings

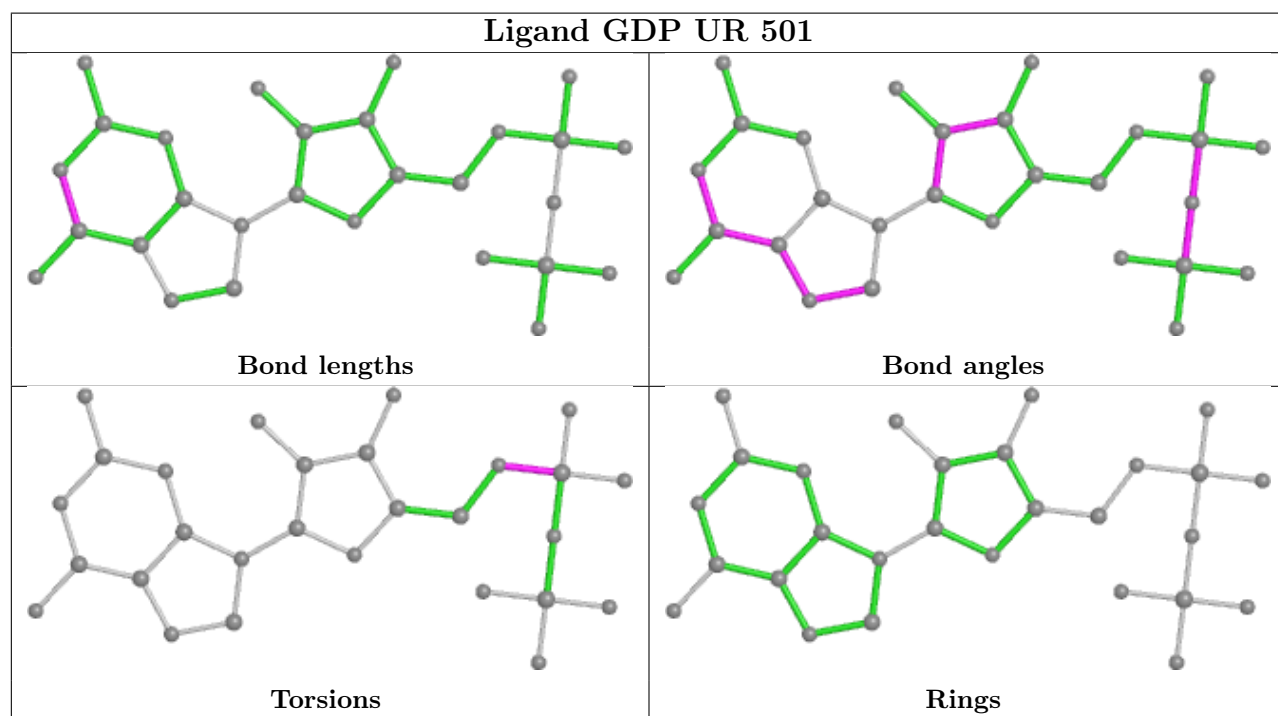
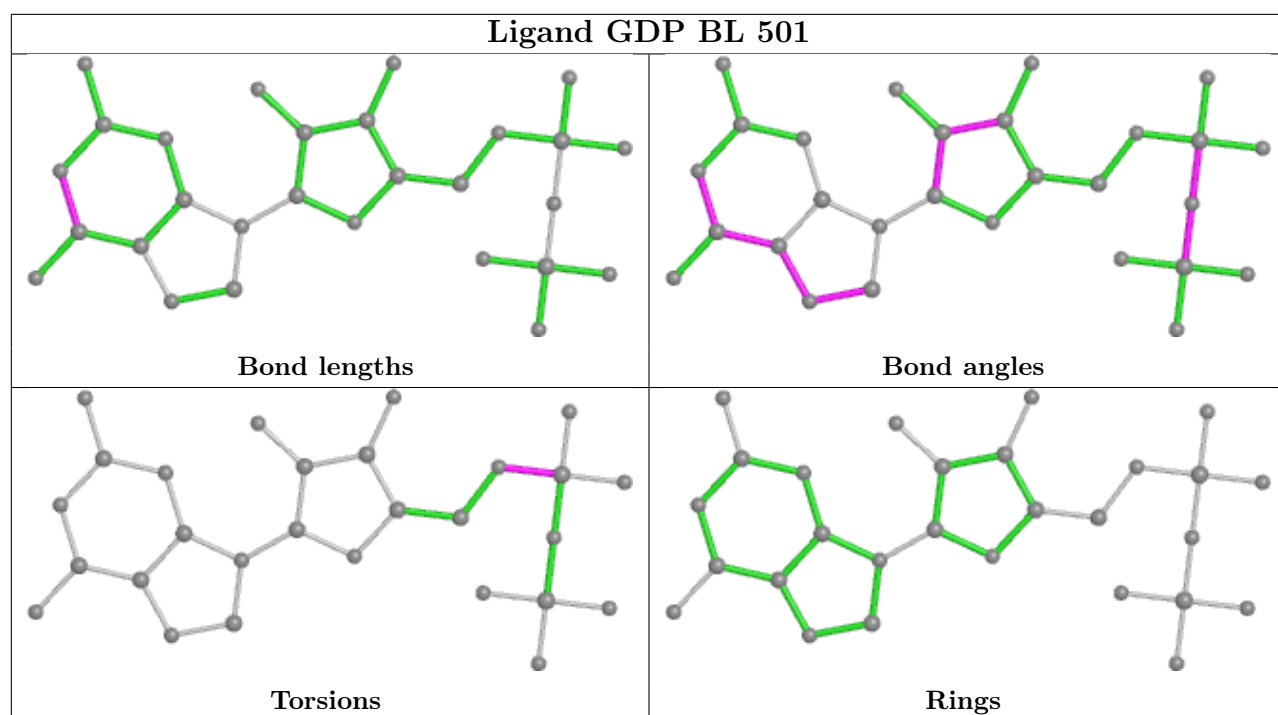


Ligand GTP RK 501

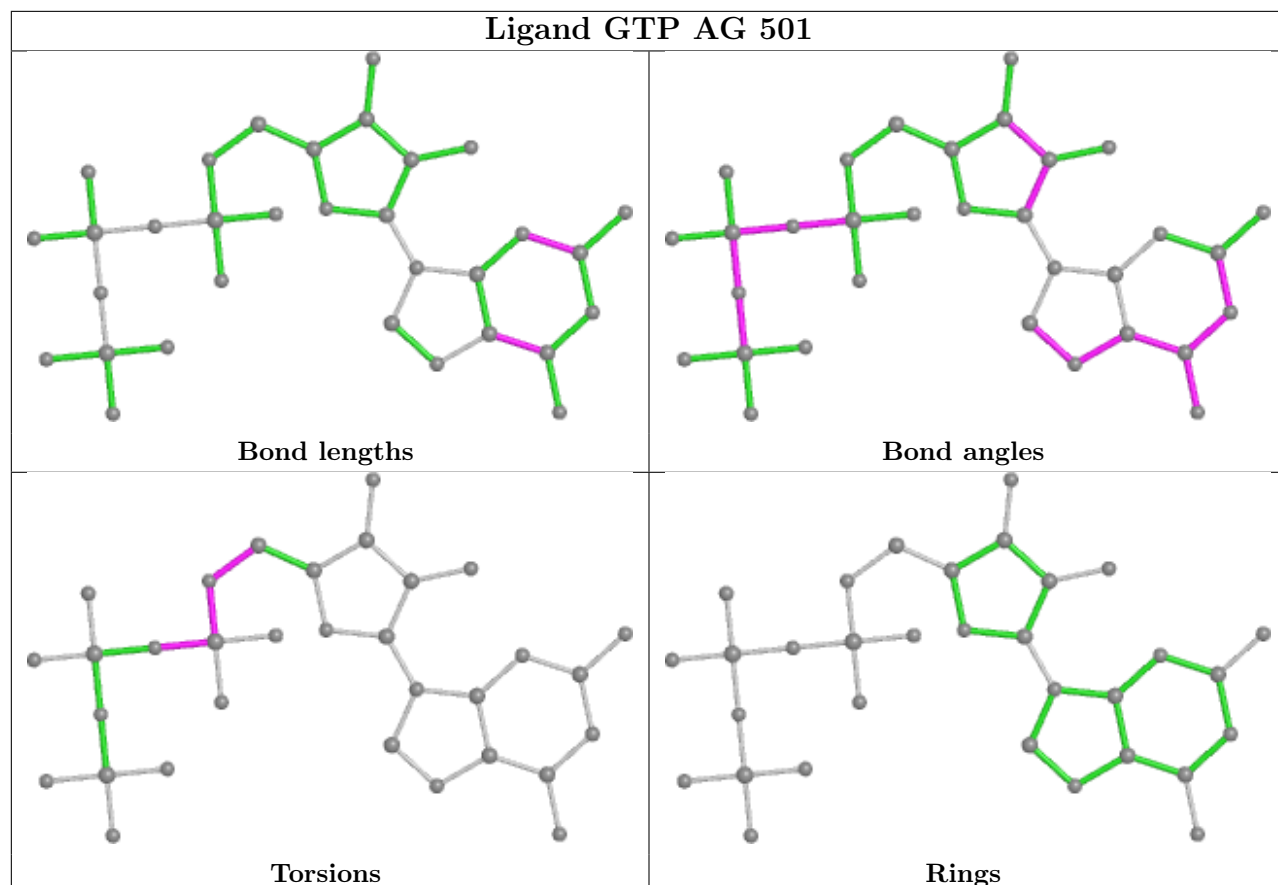


Ligand GTP EW 501

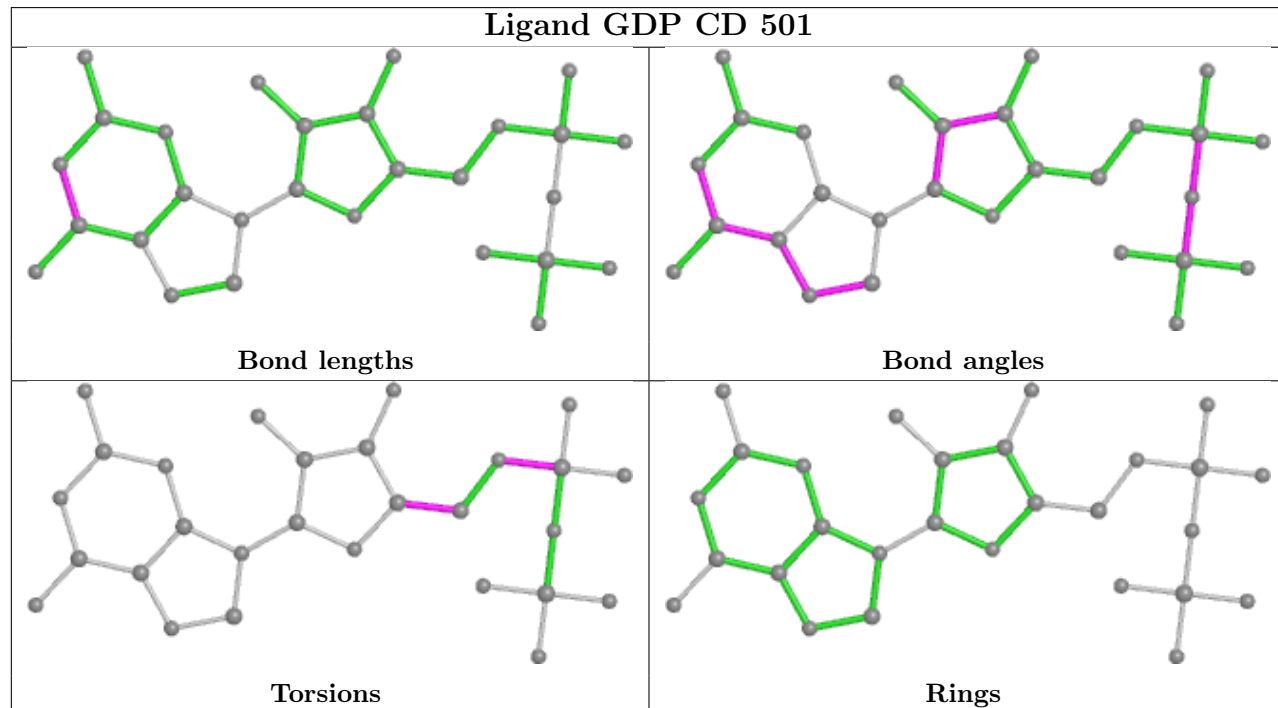




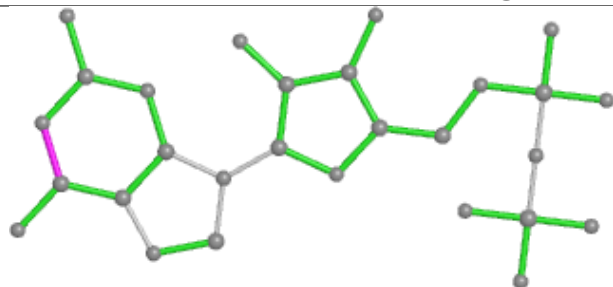
Ligand GTP AG 501



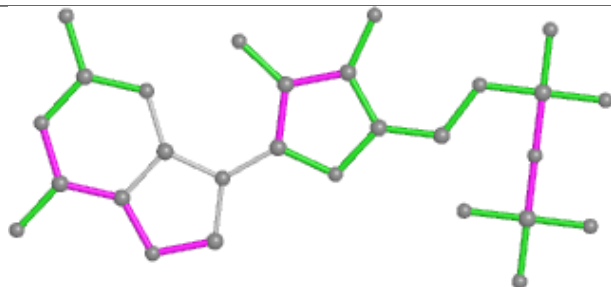
Ligand GDP CD 501



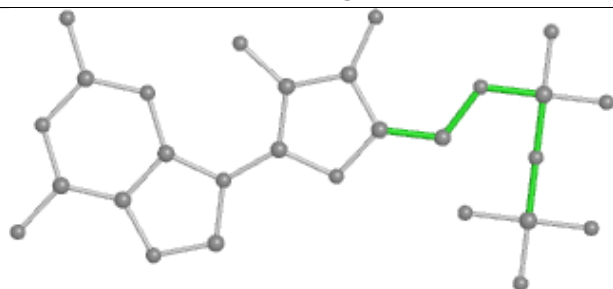
Ligand GDP BH 501



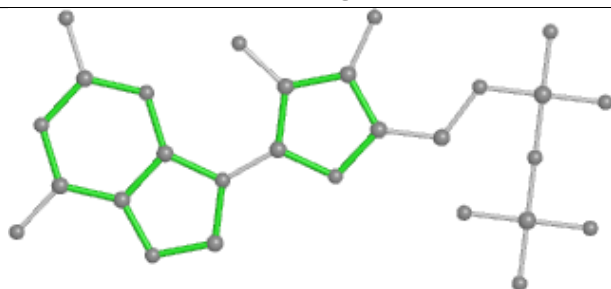
Bond lengths



Bond angles

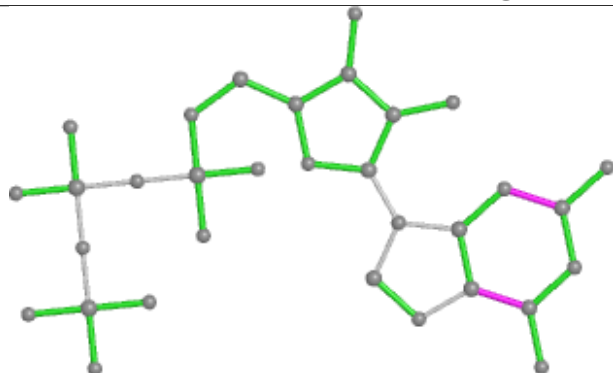


Torsions

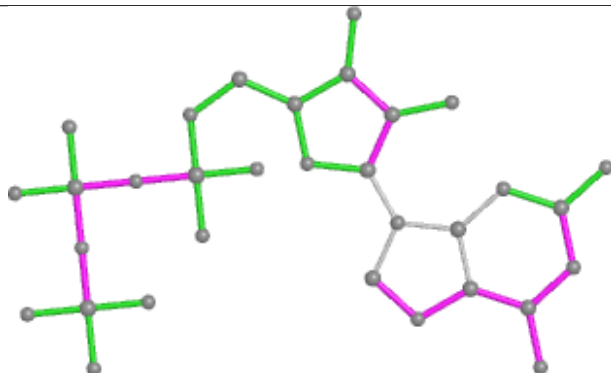


Rings

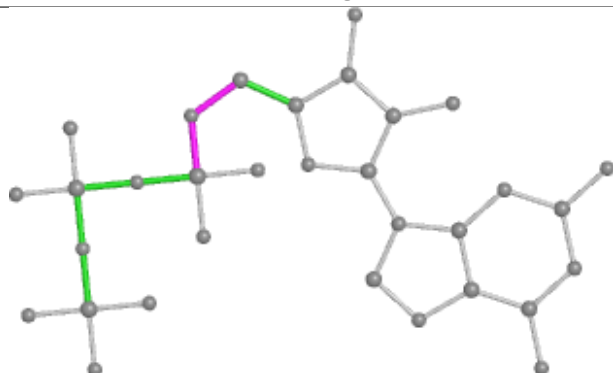
Ligand GTP SW 501



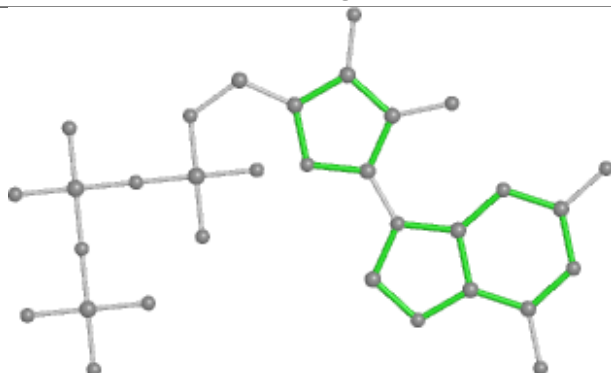
Bond lengths



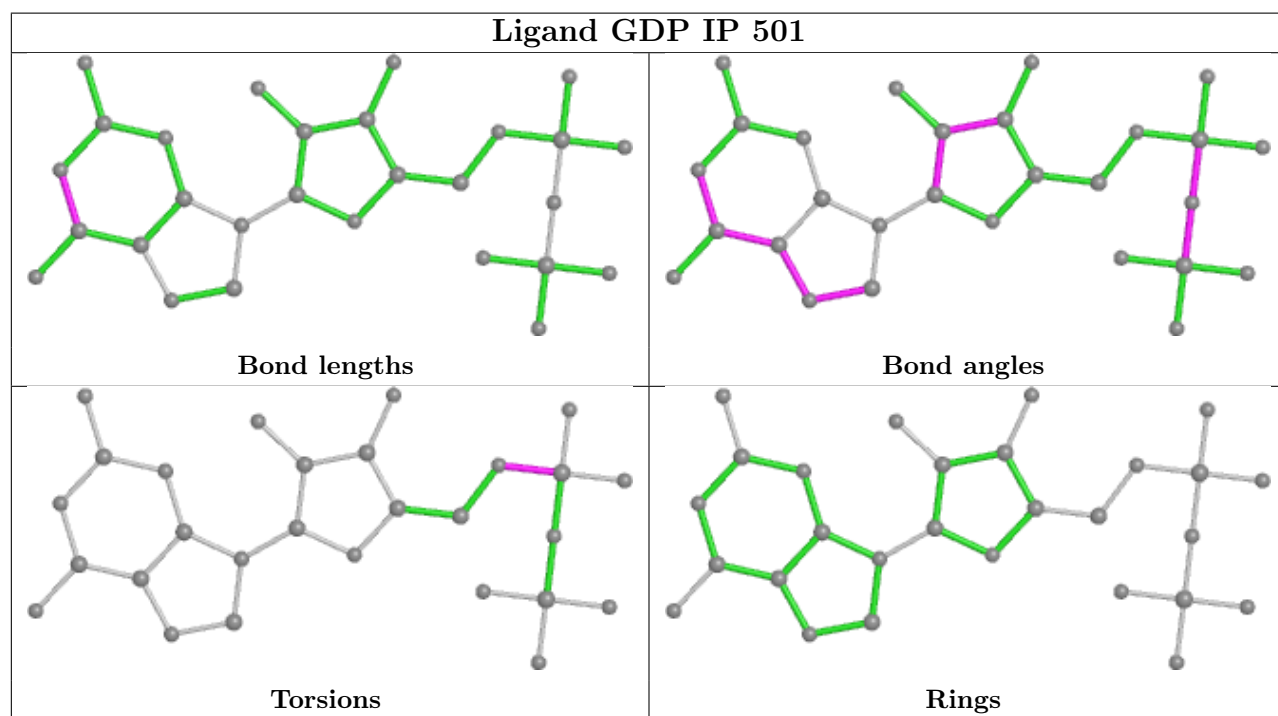
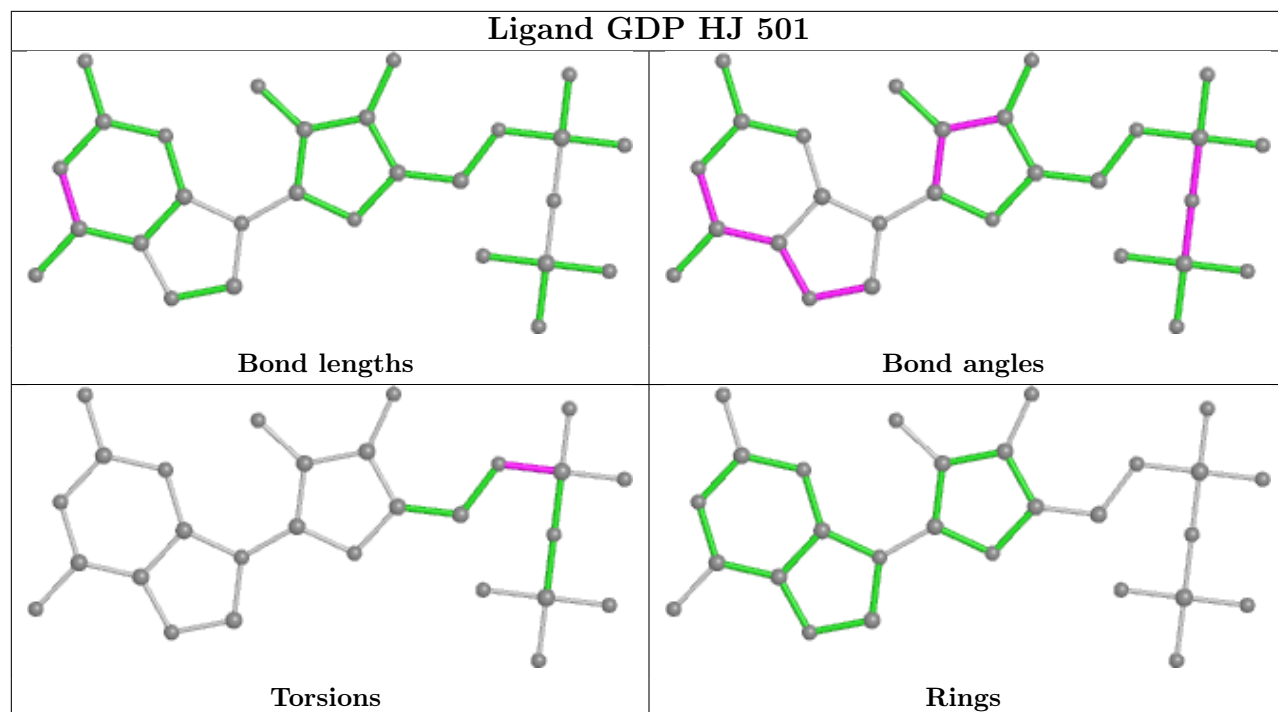
Bond angles

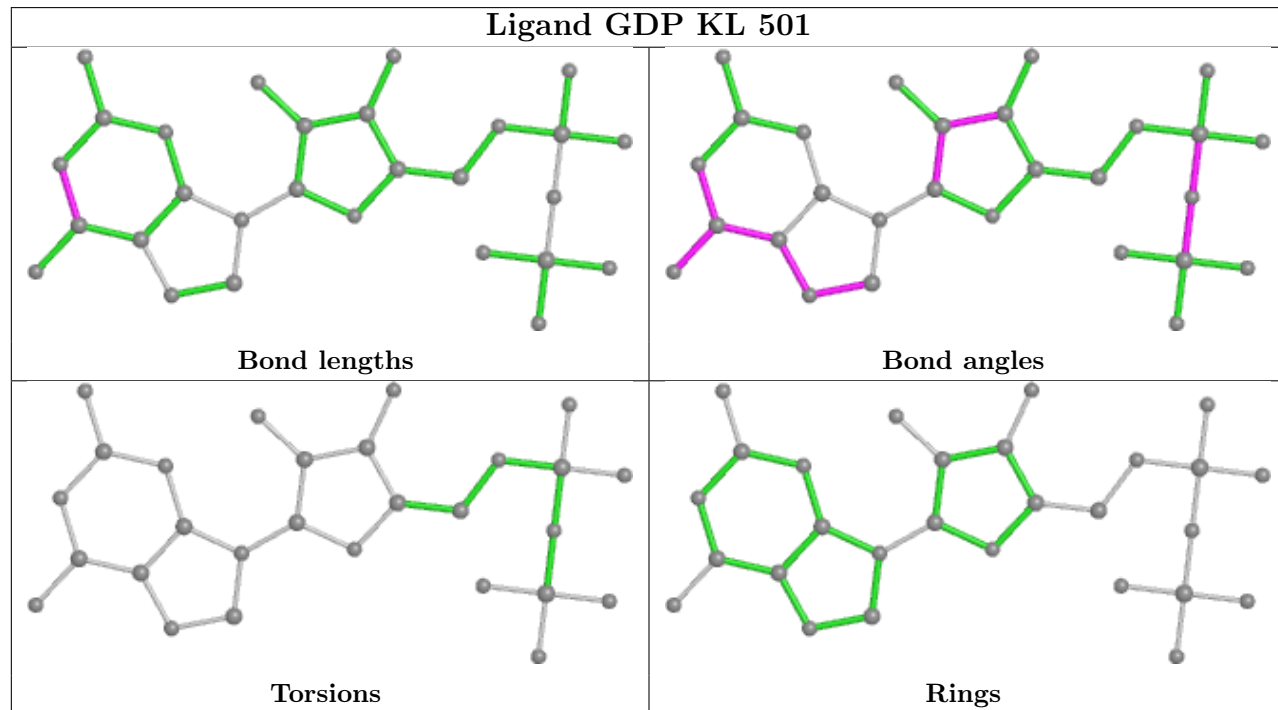
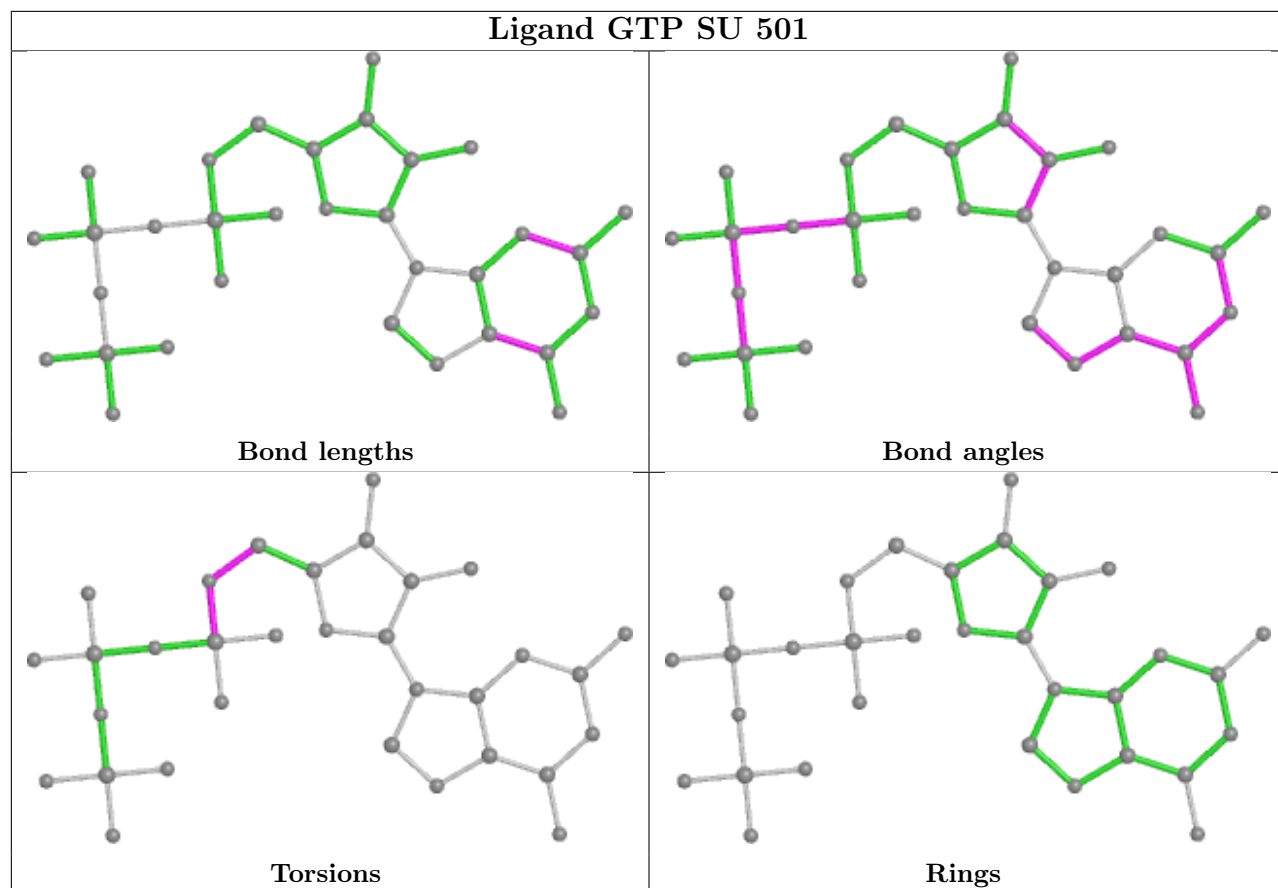


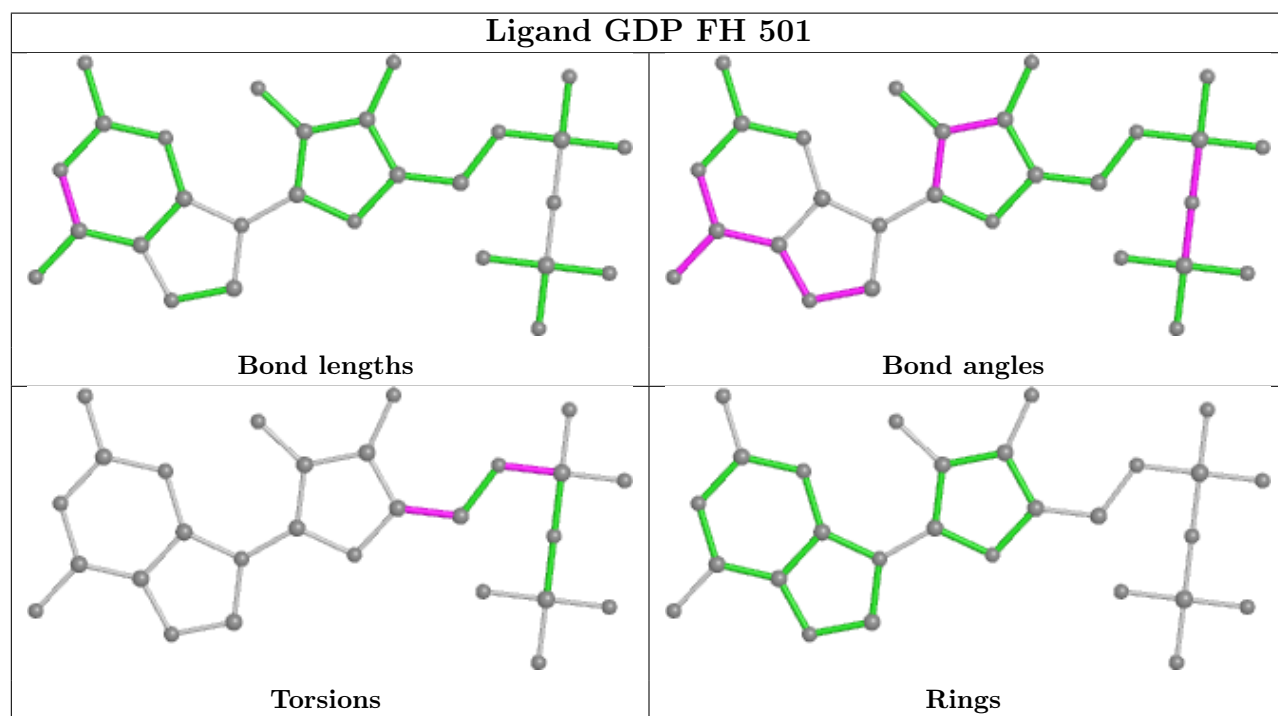
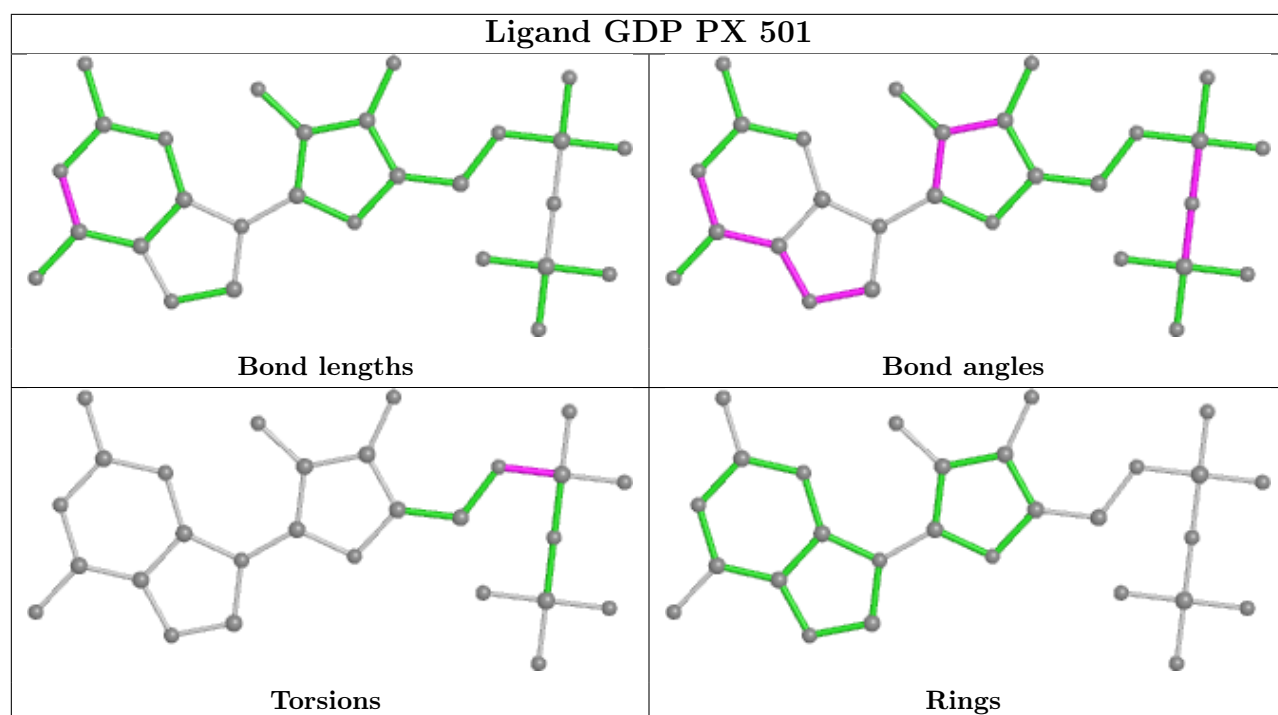
Torsions



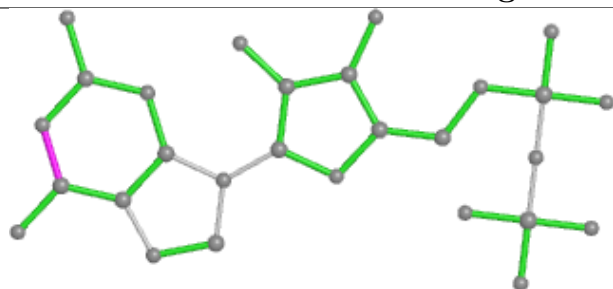
Rings



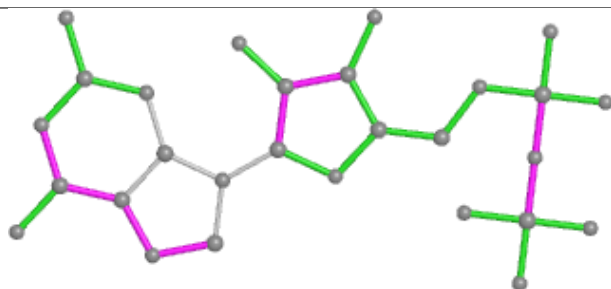




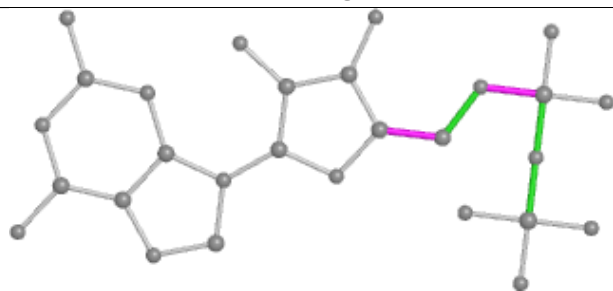
Ligand GDP TH 501



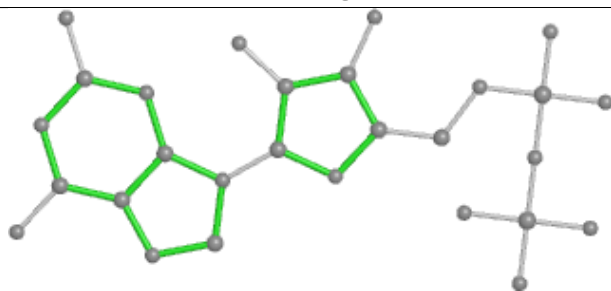
Bond lengths



Bond angles

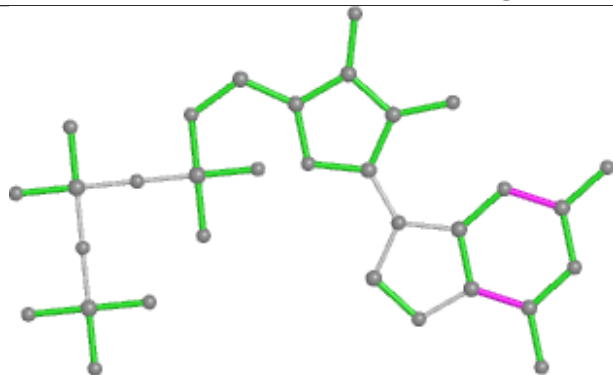


Torsions

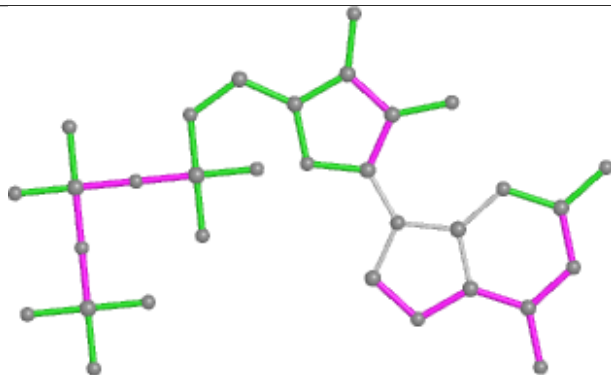


Rings

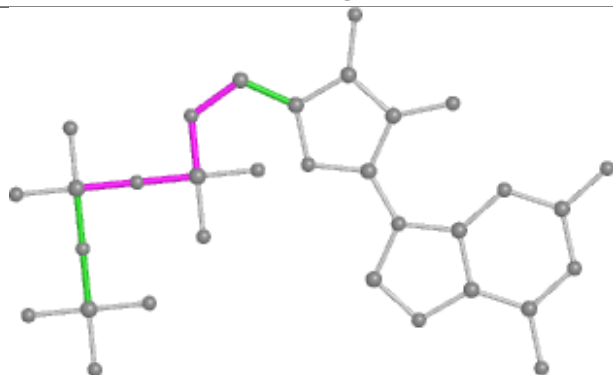
Ligand GTP UG 501



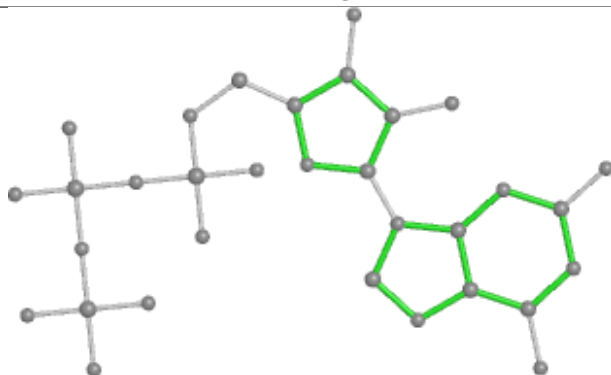
Bond lengths



Bond angles

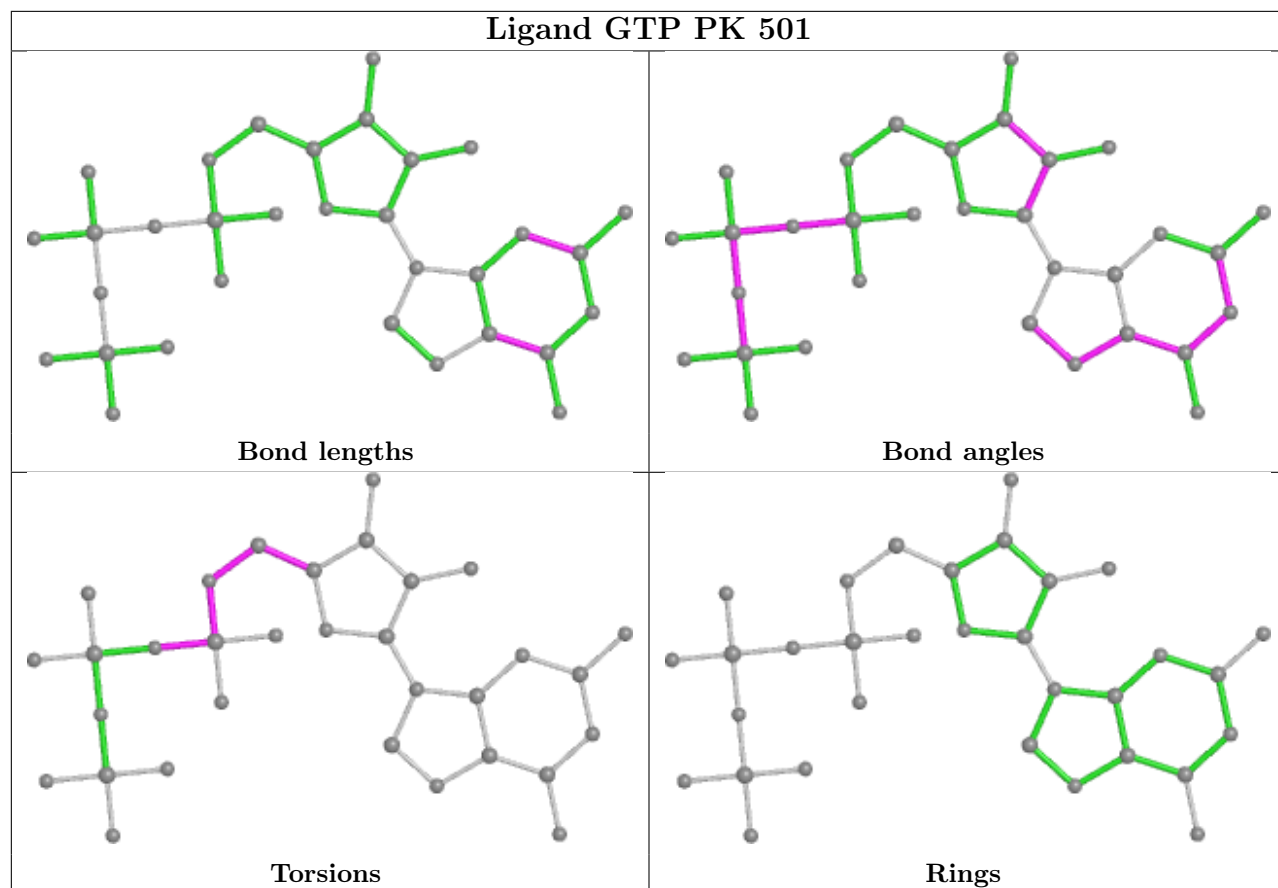


Torsions

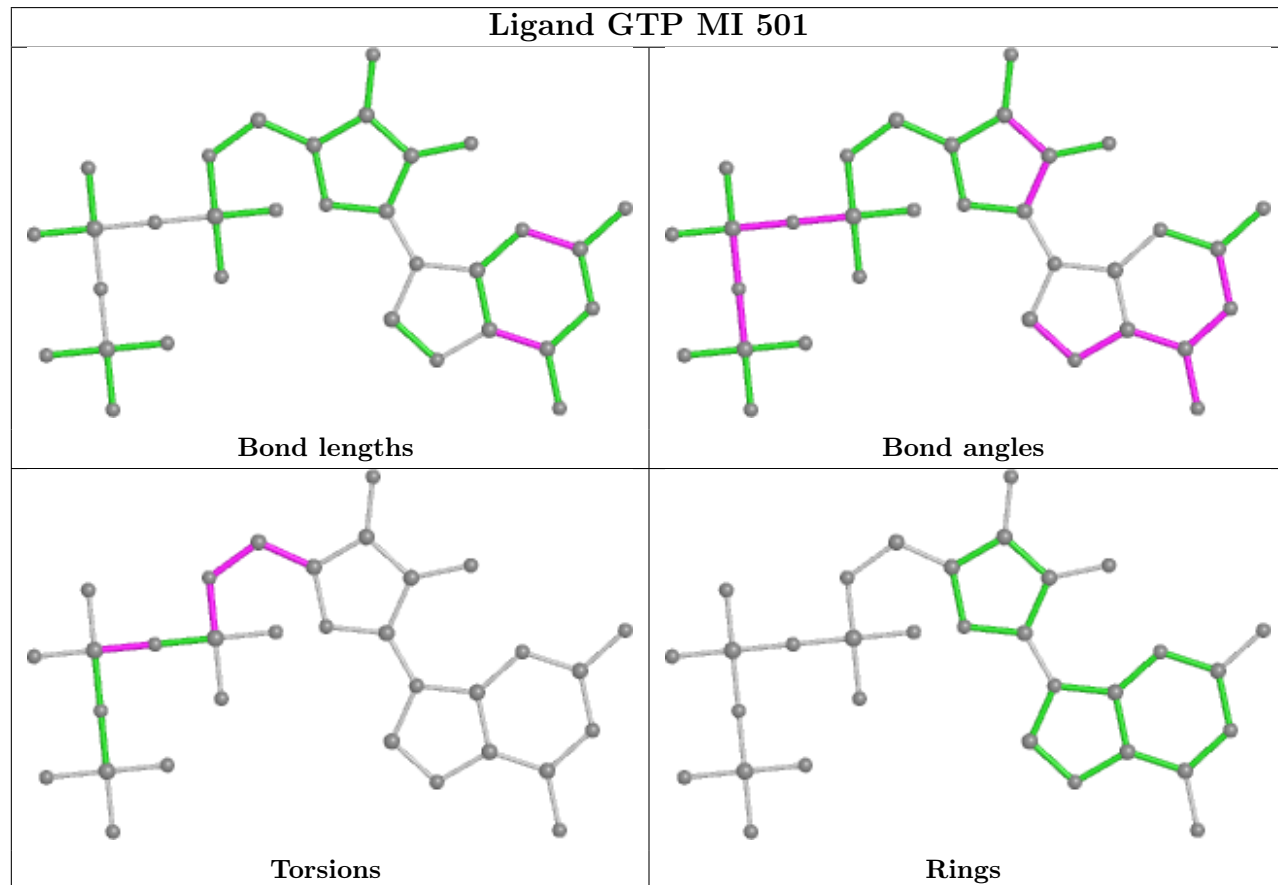


Rings

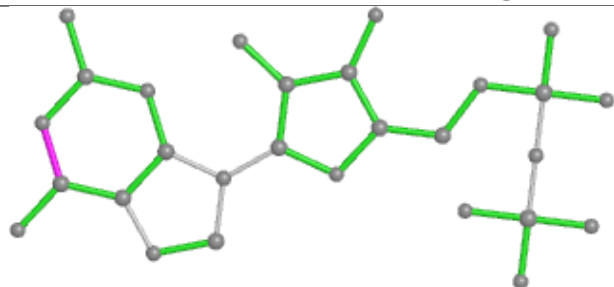
Ligand GTP PK 501



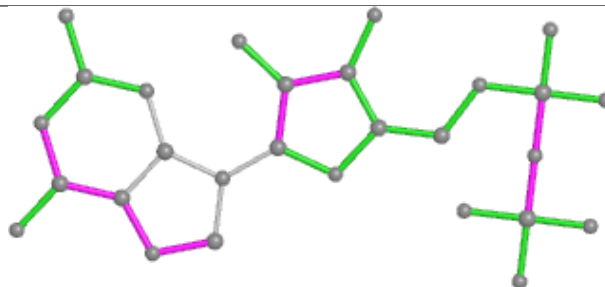
Ligand GTP MI 501



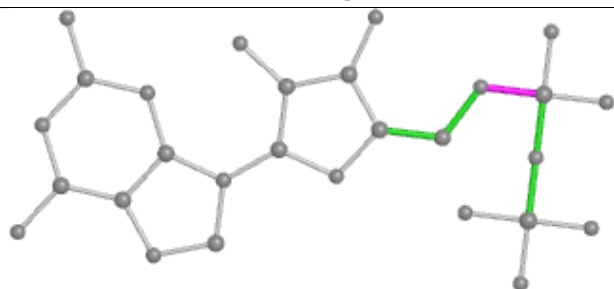
Ligand GDP KB 501



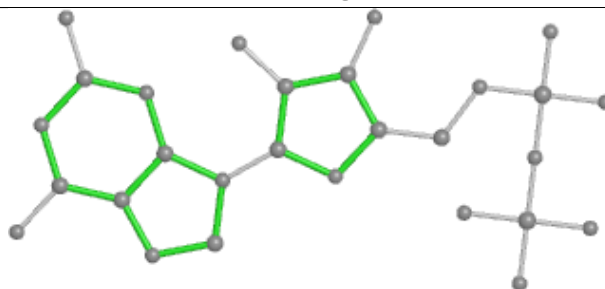
Bond lengths



Bond angles

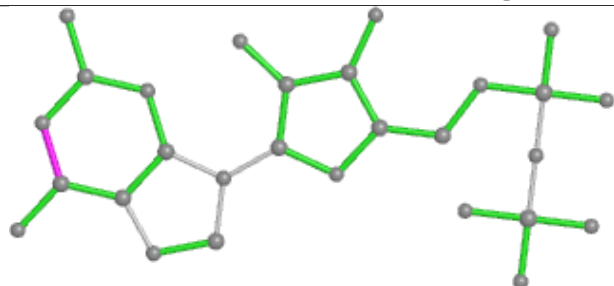


Torsions

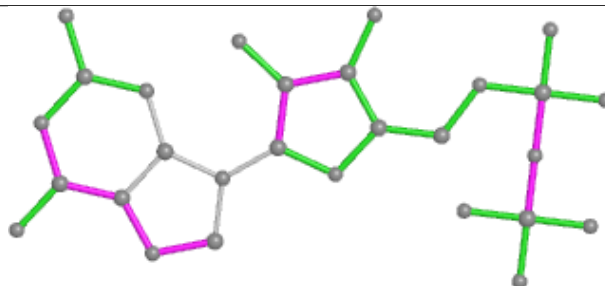


Rings

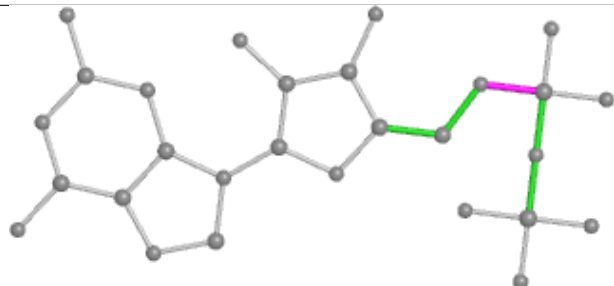
Ligand GDP BD 501



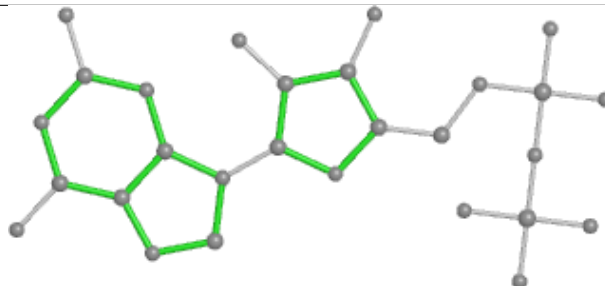
Bond lengths



Bond angles

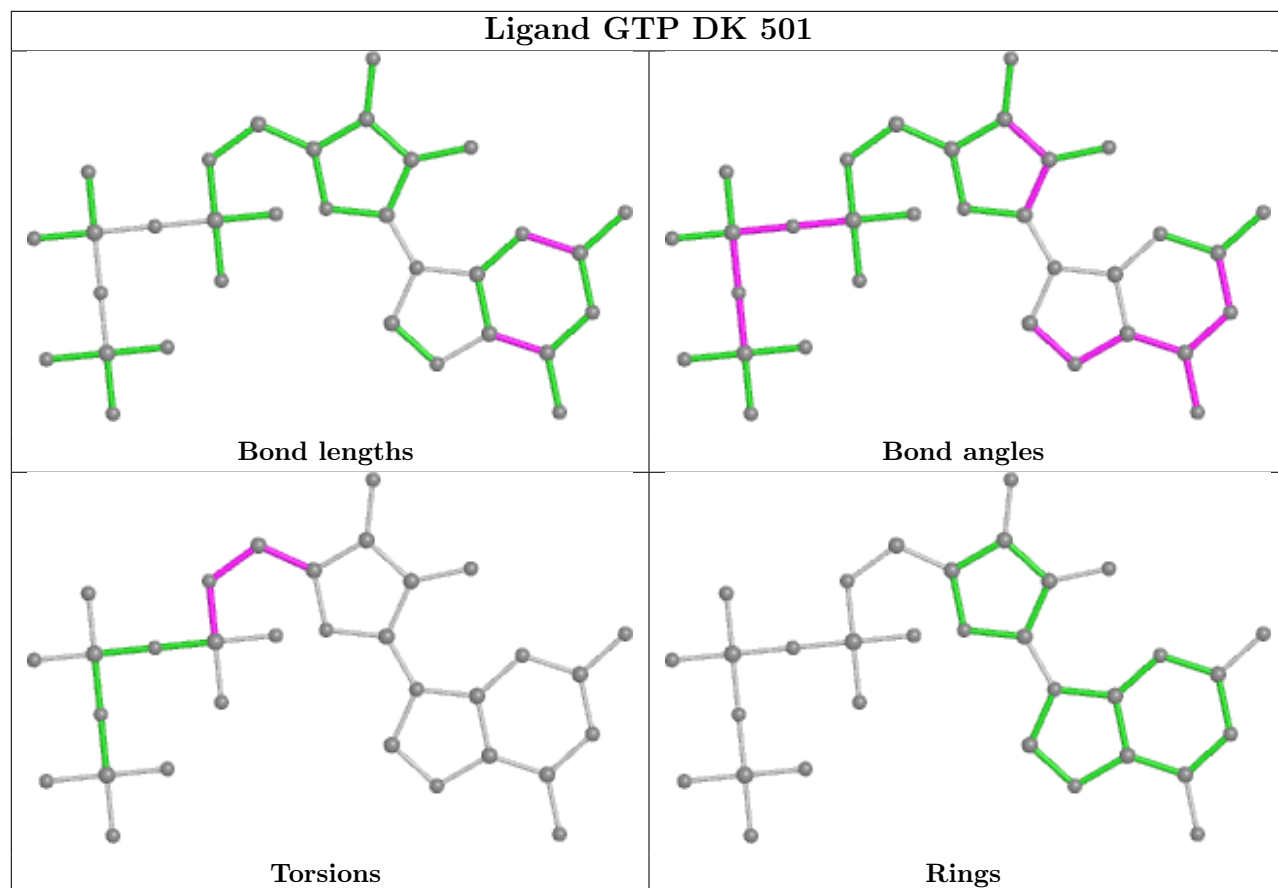


Torsions

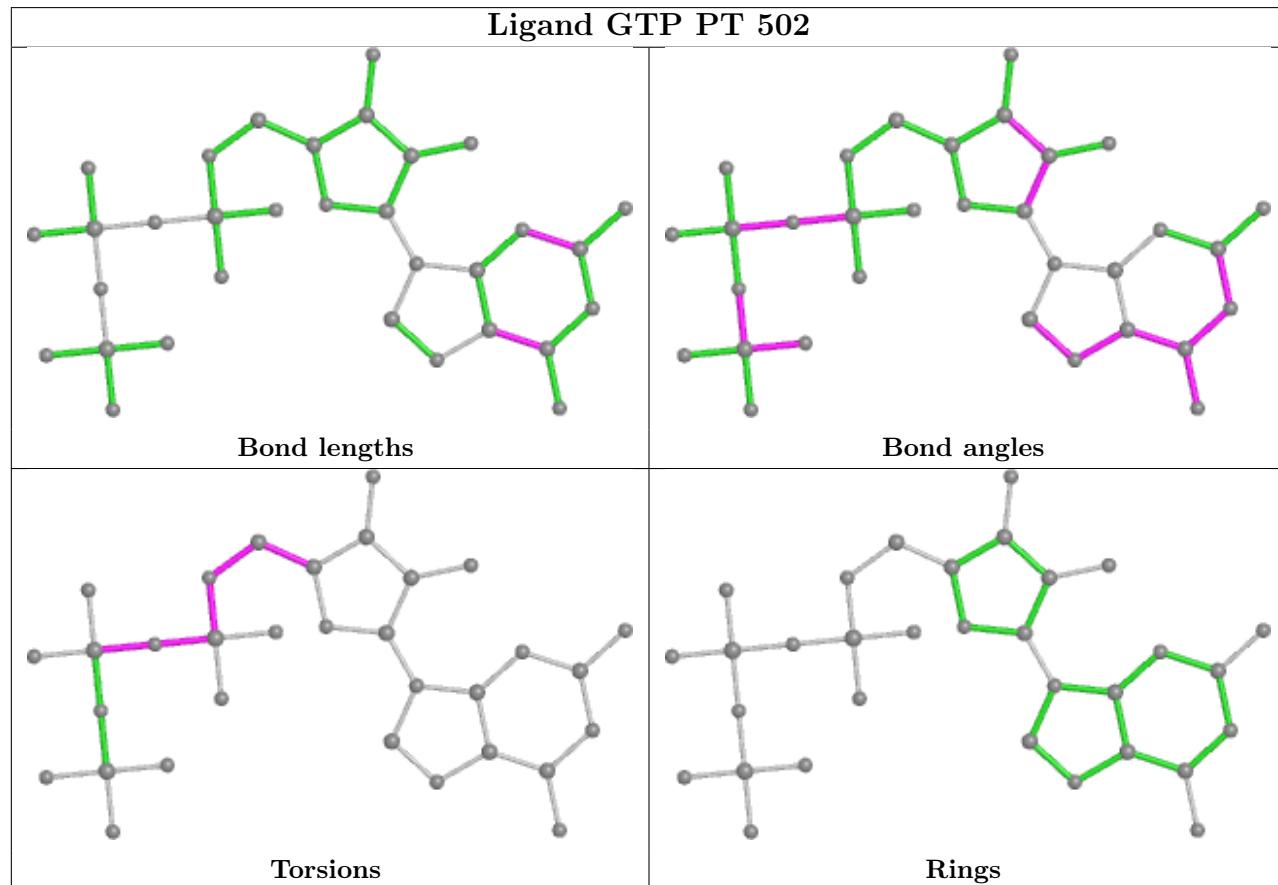


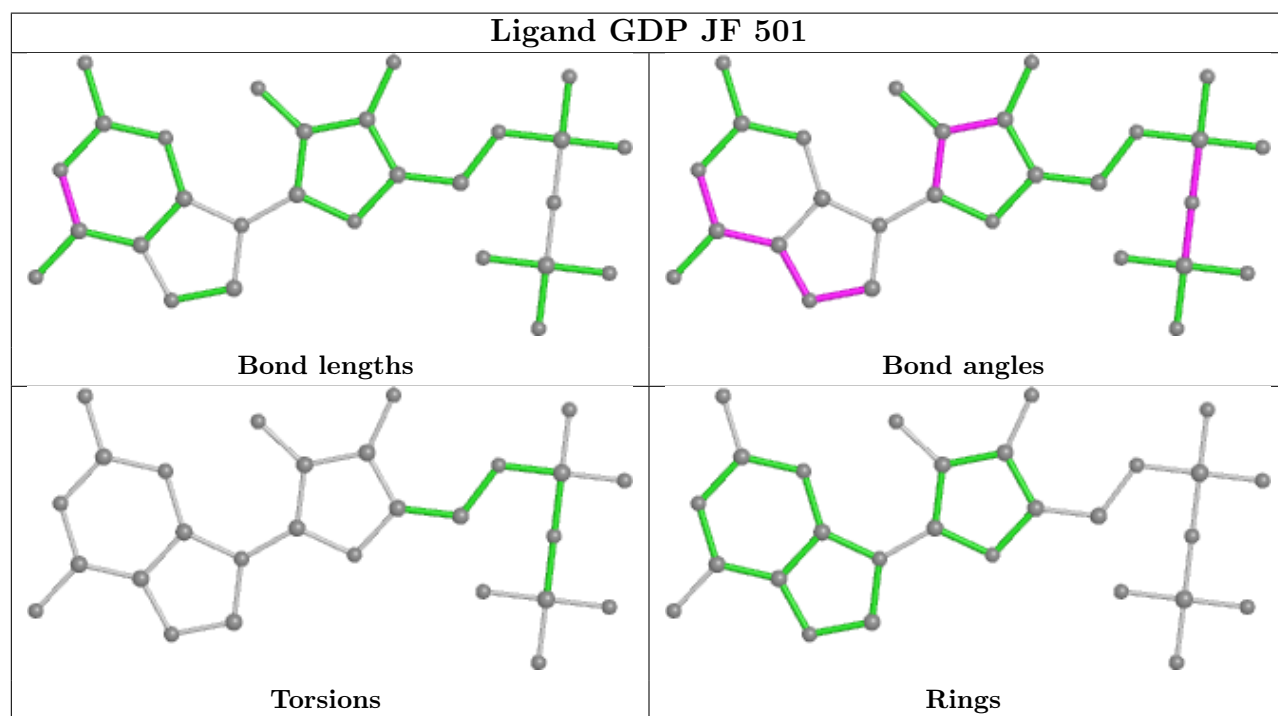
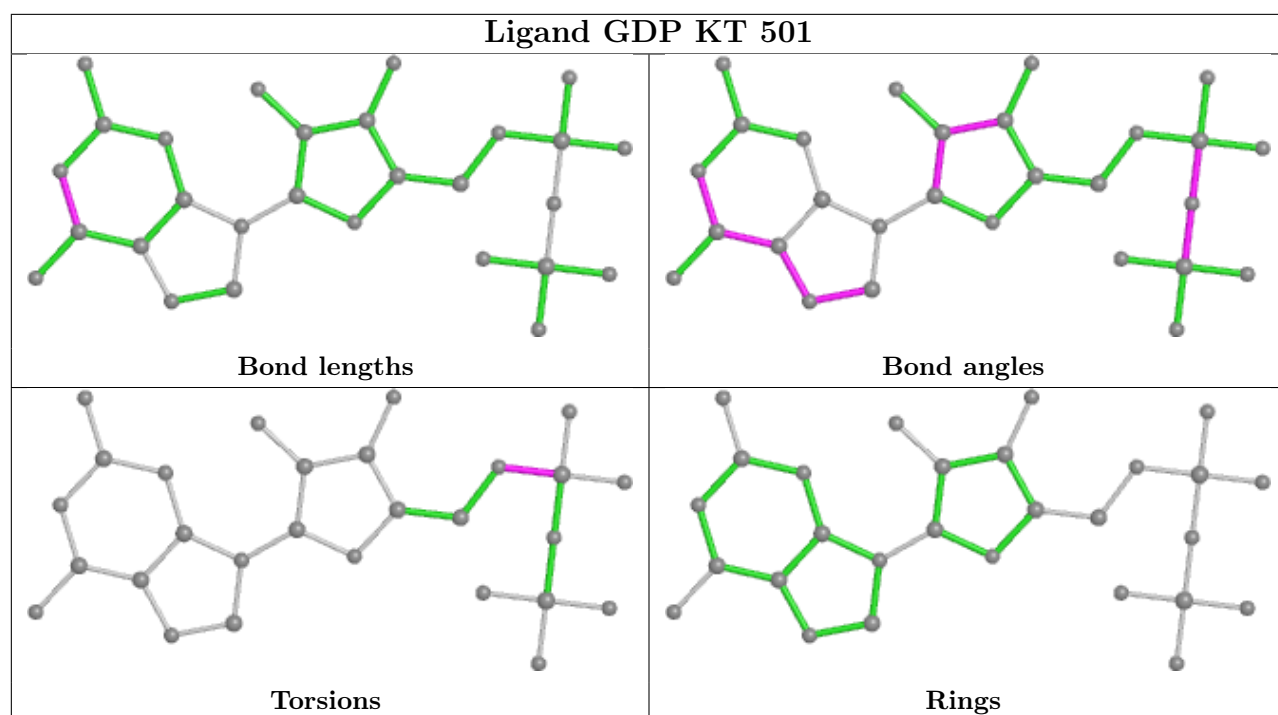
Rings

Ligand GTP DK 501

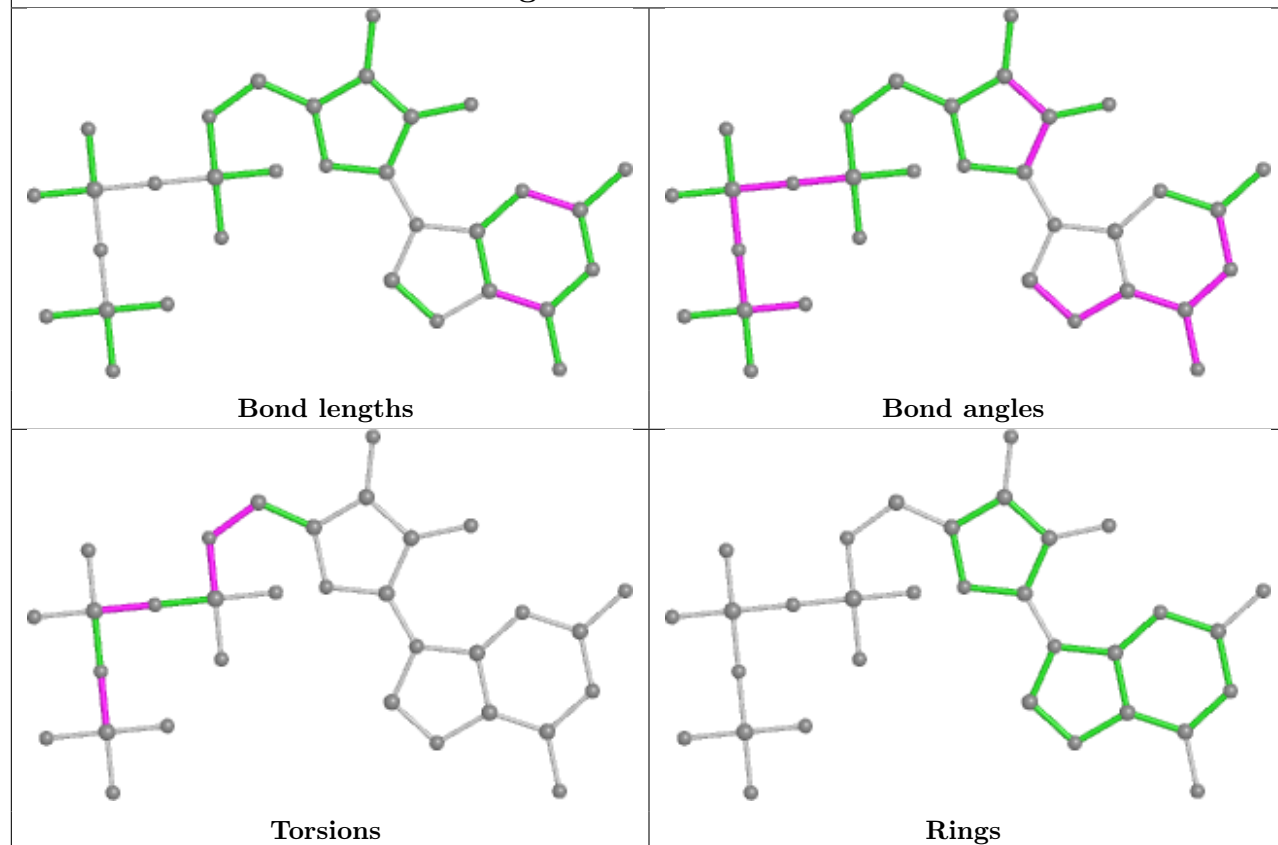


Ligand GTP PT 502

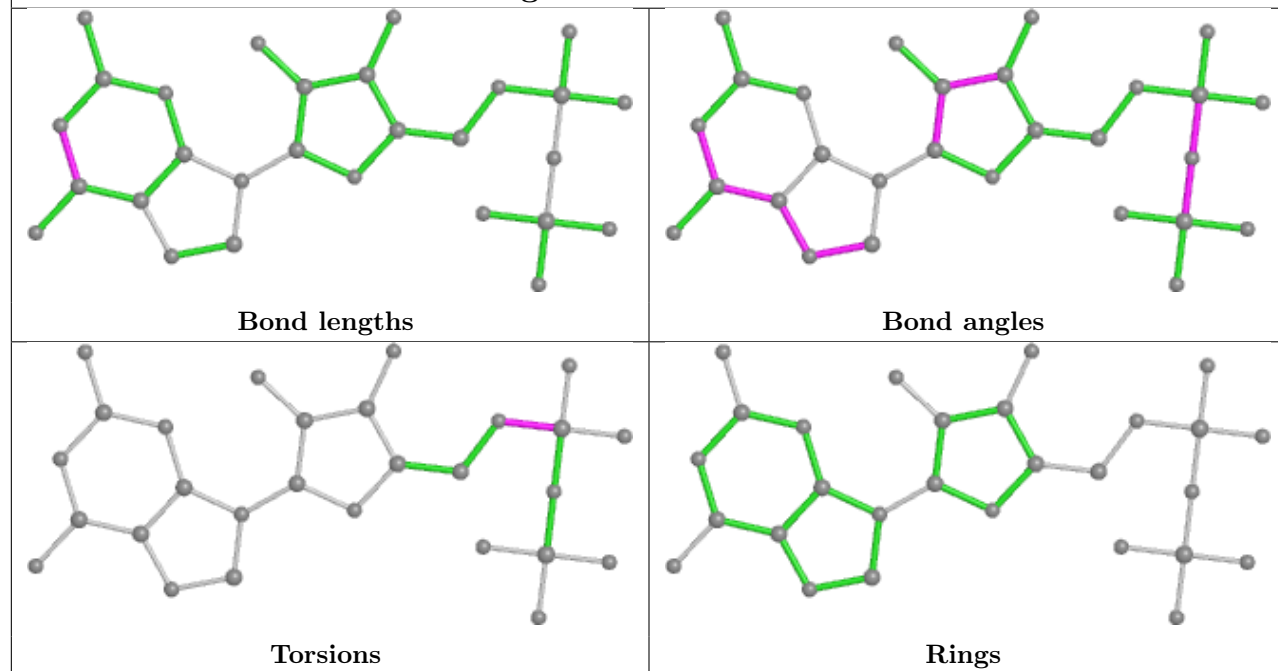




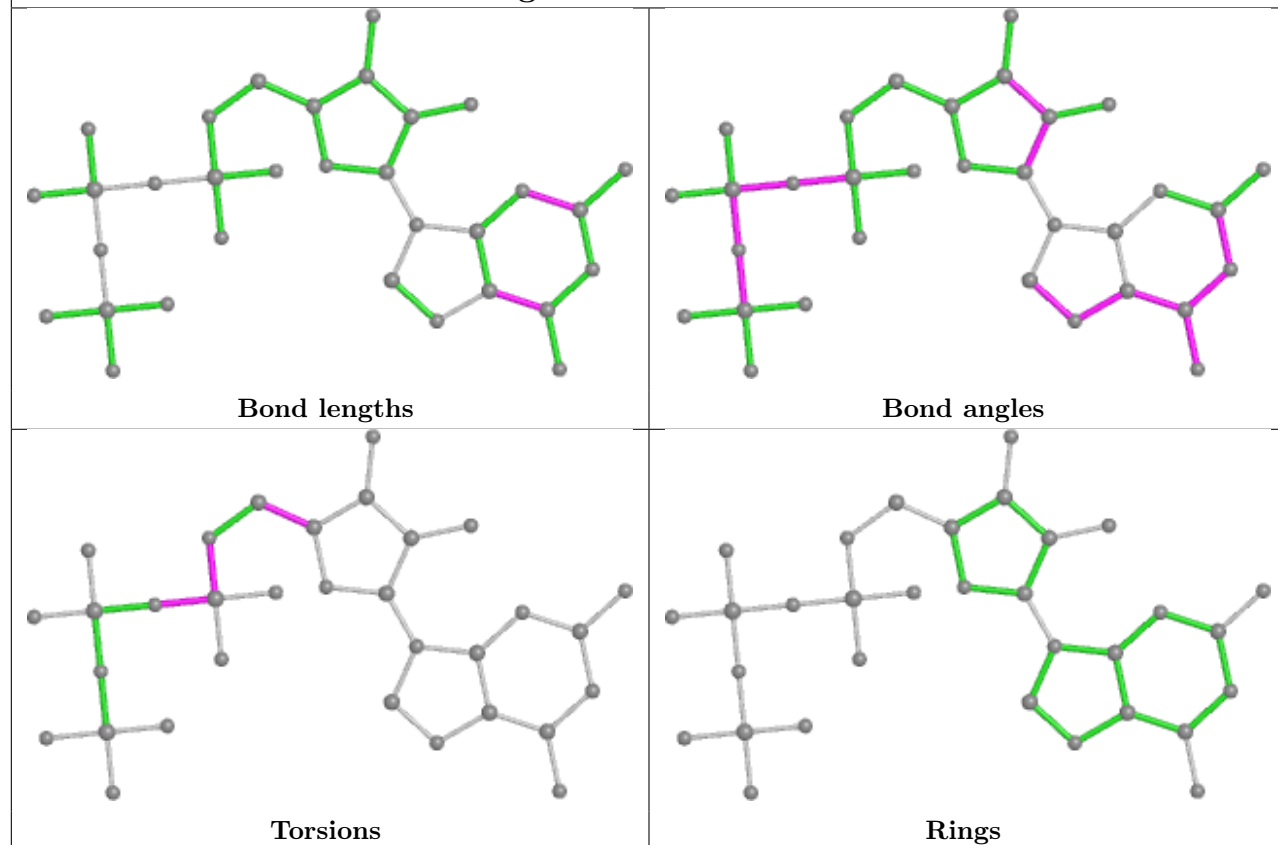
Ligand GTP RF 502



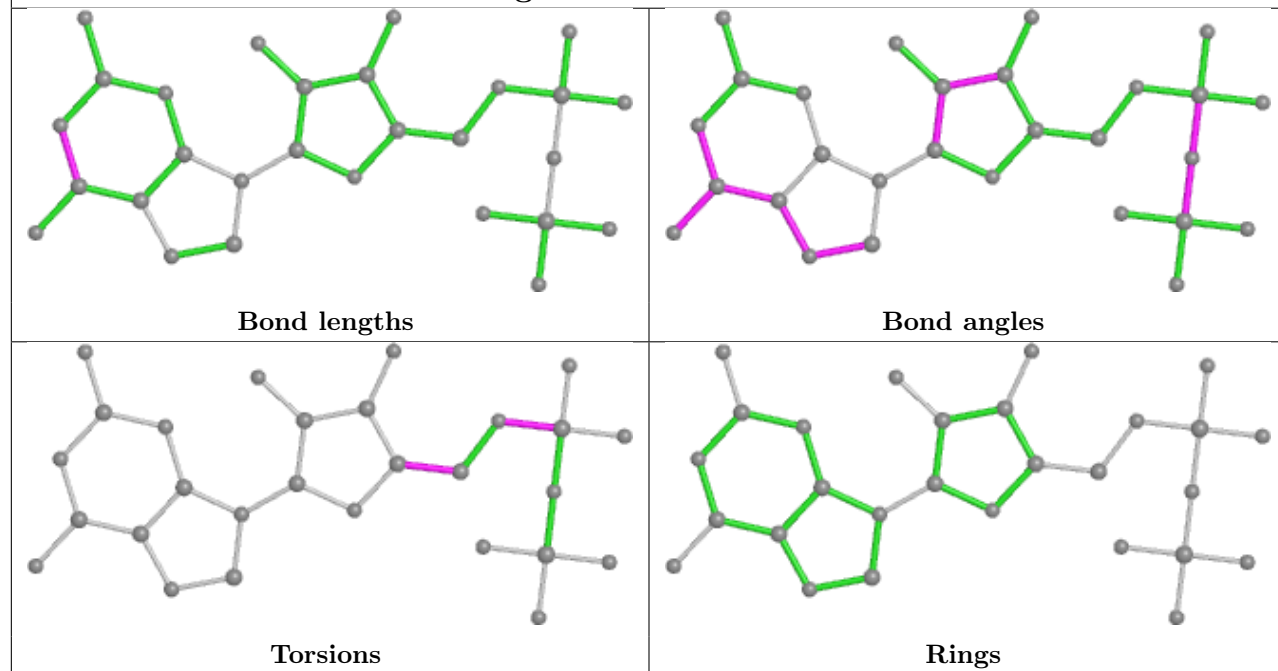
Ligand GDP LL 501



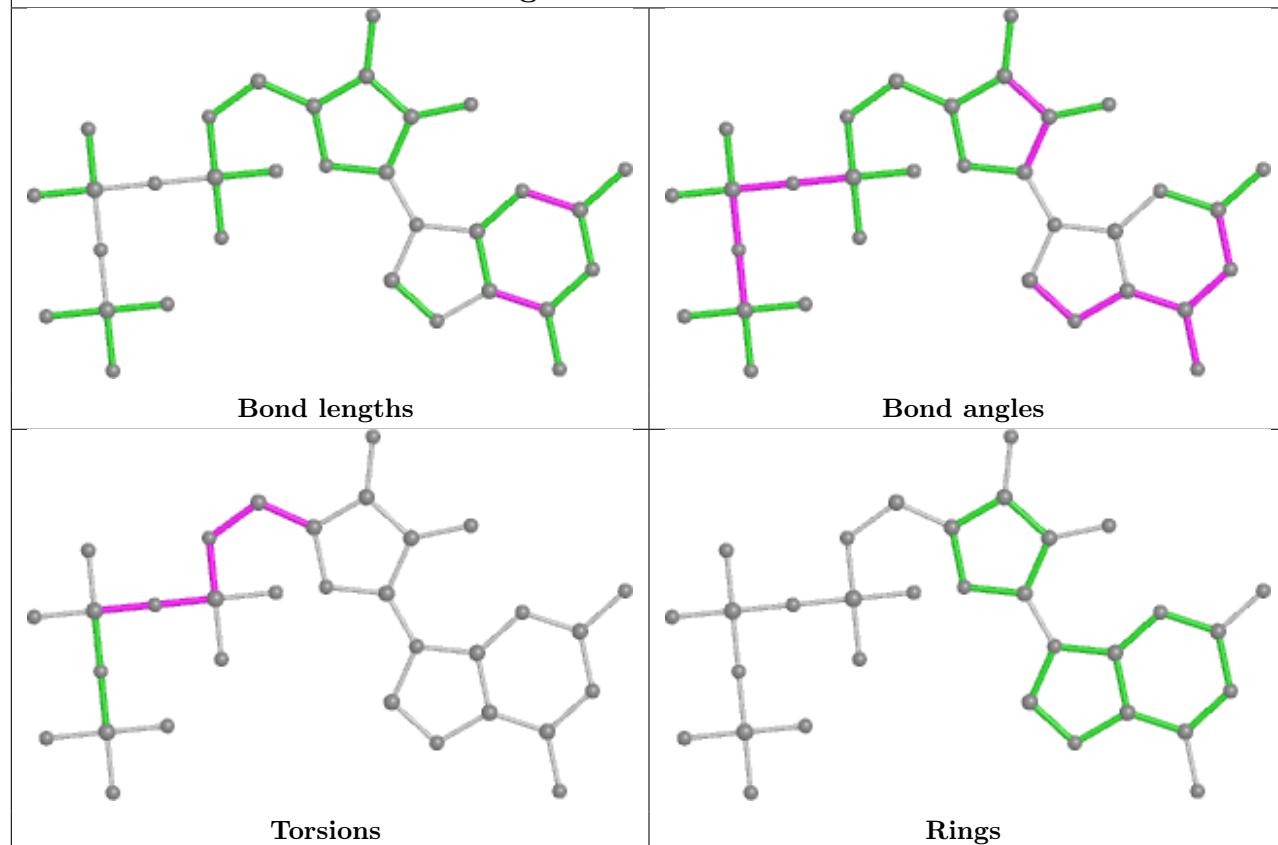
Ligand GTP AE 501



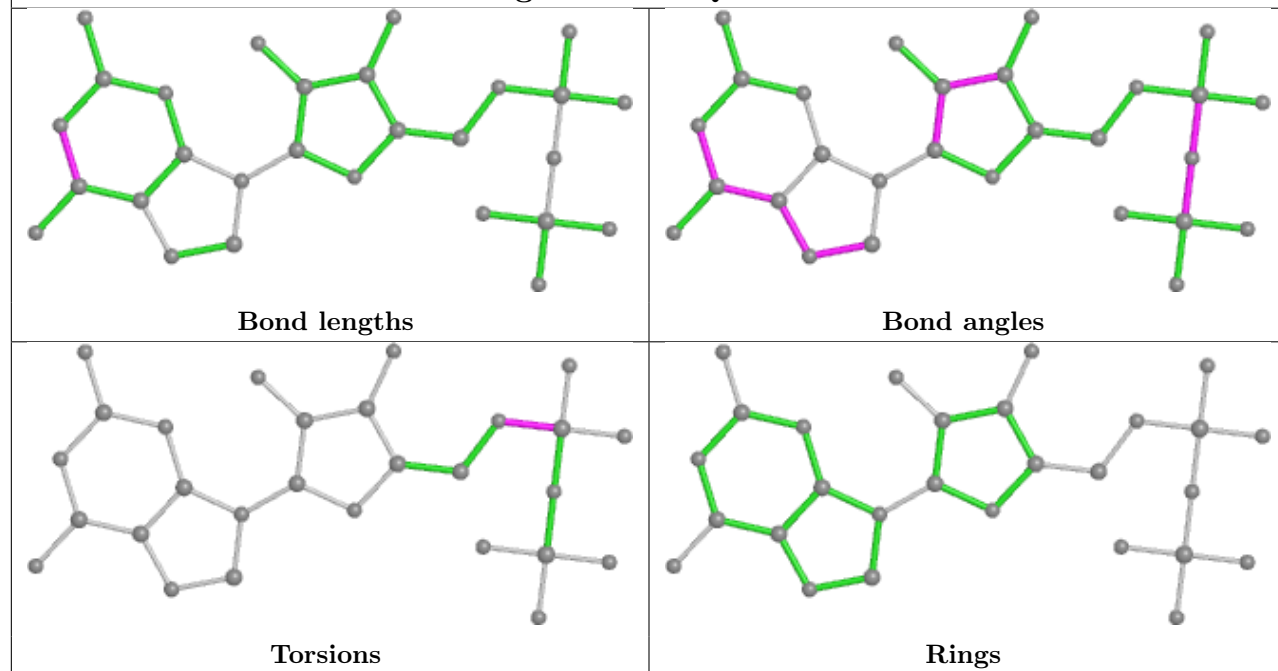
Ligand GDP KR 501

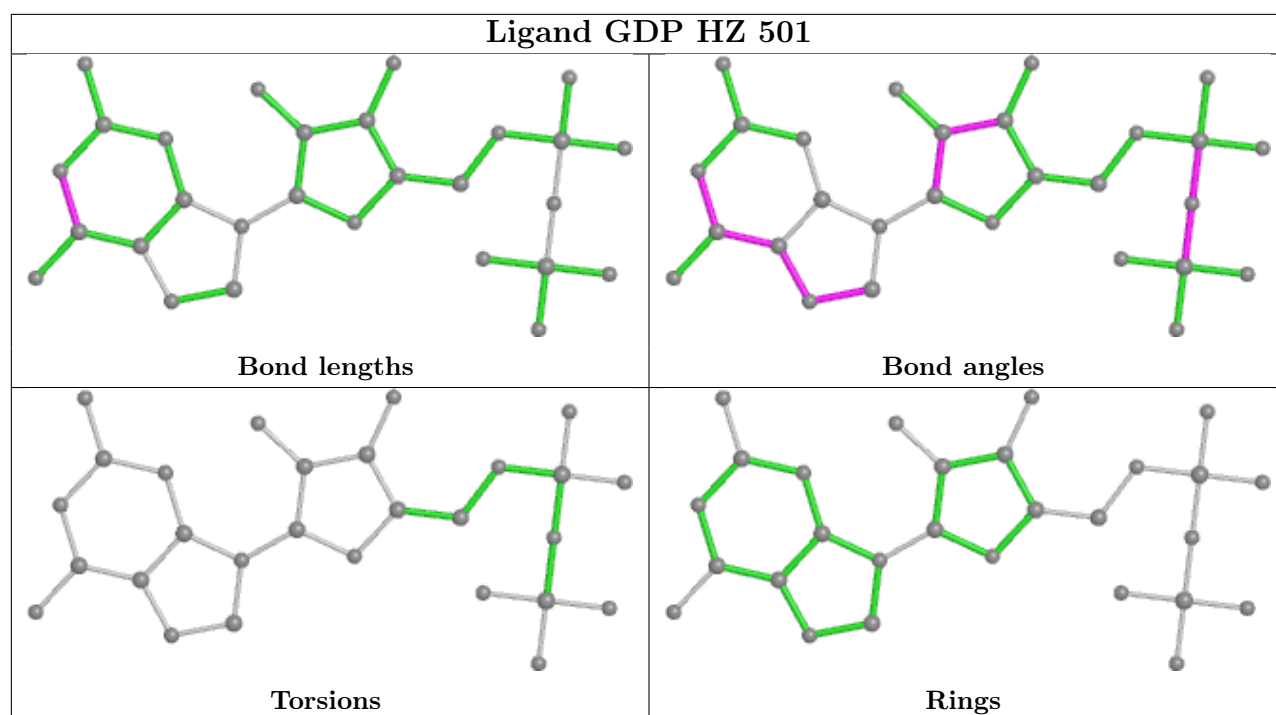


Ligand GTP PE 501



Ligand GDP QX 501





4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

5 Map visualisation

This section contains visualisations of the EMDB entry EMD-35888. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

5.1 Orthogonal projections

This section was not generated.

5.2 Central slices

This section was not generated.

5.3 Largest variance slices

This section was not generated.

5.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

5.5 Orthogonal surface views

This section was not generated.

5.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

6 Map analysis ⓘ

This section contains the results of statistical analysis of the map.

6.1 Map-value distribution ⓘ

This section was not generated.

6.2 Volume estimate versus contour level ⓘ

This section was not generated.

6.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

7 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

8 Map-model fit

This section was not generated.