WORLDWIDE PDB

PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report ⓘ

Sep 24, 2023 – 12:57 PM EDT

PDB ID	:	5U41
Title	:	Human PPARdelta ligand-binding domain in complexed with specific agonist 16
Authors	:	Wu, C.-C.; Baiga, T.J.; Downes, M.; La Clair, J.J.; Atkins, A.R.; Richard, S.B.; Stockley-Noel, T.A.; Bowman, M.E.; Evans, R.M.; Noel, J.P.
Deposited on	:	2016-12-03
Resolution	:	1.90 Å(reported)

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

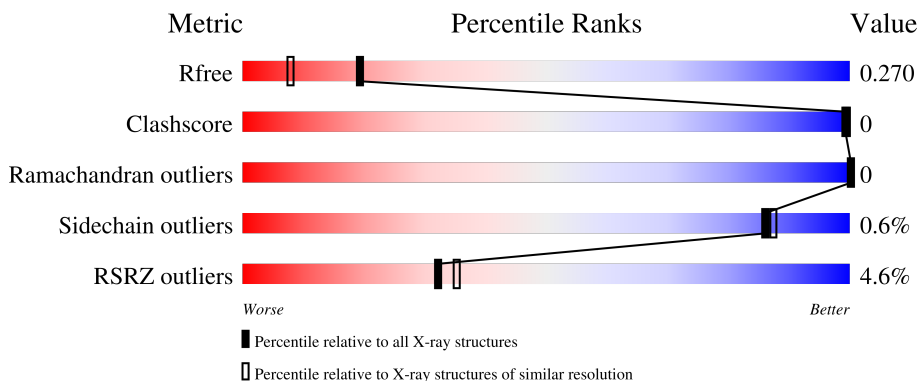|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:
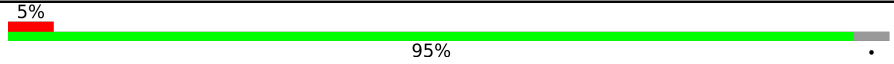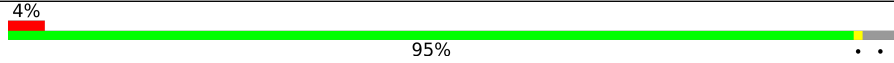*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.90 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.

Metric	Percentile Ranks	Value
Rfree		0.270
Clashscore		0
Ramachandran outliers		0
Sidechain outliers		0.6%
RSRZ outliers		4.6%

Worse   *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	272	5% 95%
1	B	272	4% 95%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	PGO	A	505	-	-	-	X

2 Entry composition ⓘ

There are 7 unique types of molecules in this entry. The entry contains 9161 atoms, of which 4562 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Peroxisome proliferator-activated receptor delta.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	260	Total	C	H	N	O	S	0	4	0
			4276	1371	2164	354	377	10			
1	B	261	Total	C	H	N	O	S	0	8	0
			4329	1387	2194	358	381	9			

- Molecule 2 is 6-[2-({benzyl[4-(thiophen-3-yl)benzene-1-carbonyl]amino}methyl)phenoxy]hexanoic acid (three-letter code: 7UG) (formula: $C_{31}H_{31}NO_4S$).
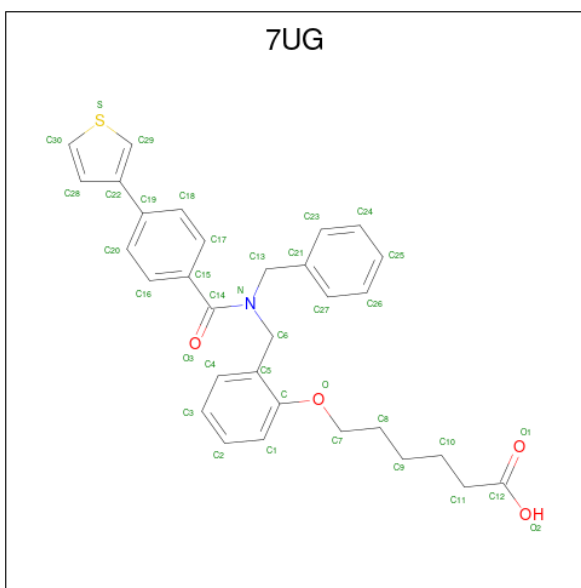
7UG

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	S	0	0
			67	31	30	1	4	1		
2	B	1	Total	C	H	N	O	S	0	0
			67	31	30	1	4	1		

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).

PEG

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			17	4	10	3		
3	A	1	Total	C	H	O	0	0
			17	4	10	3		
3	A	1	Total	C	H	O	0	0
			17	4	10	3		
3	B	1	Total	C	H	O	0	0
			17	4	10	3		
3	B	1	Total	C	H	O	0	1
			34	8	20	6		

- Molecule 4 is S-1,2-PROPANEDIOL (three-letter code: PGO) (formula: $C_3H_8O_2$).

PGO
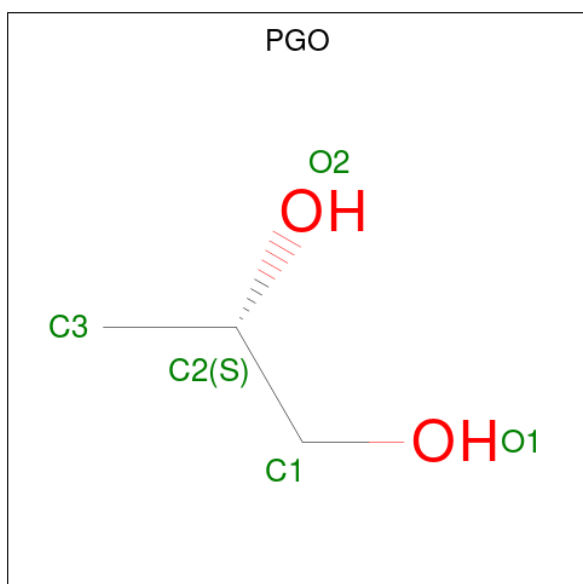
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total 13	C 3	H 8	O 2	0	0
4	A	1	Total 13	C 3	H 8	O 2	0	0
4	A	1	Total 13	C 3	H 8	O 2	0	0
4	A	1	Total 13	C 3	H 8	O 2	0	0

- Molecule 5 is heptyl beta-D-glucopyranoside (three-letter code: B7G) (formula: $C_{13}H_{26}O_6$).
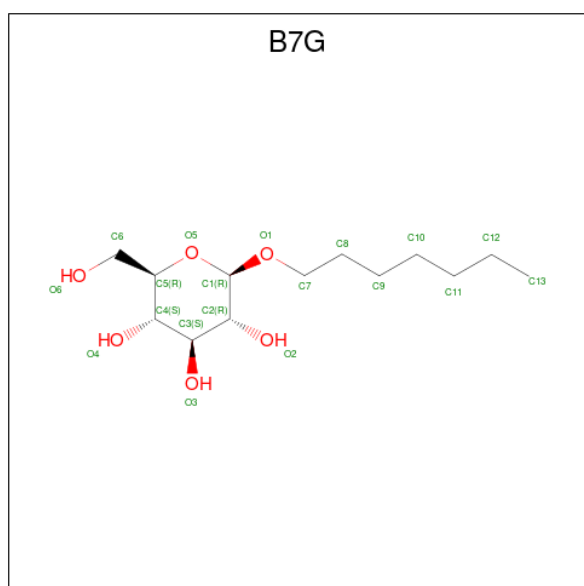
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total 45	C 13	H 26	O 6	0	0
5	B	1	Total 45	C 13	H 26	O 6	0	0

- Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total 1	K 1	0	0

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	87	Total 87	O 87	0	0
7	B	90	Total 90	O 90	0	0

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Peroxisome proliferator-activated receptor delta

Chain A:

• Molecule 1: Peroxisome proliferator-activated receptor delta

Chain B:
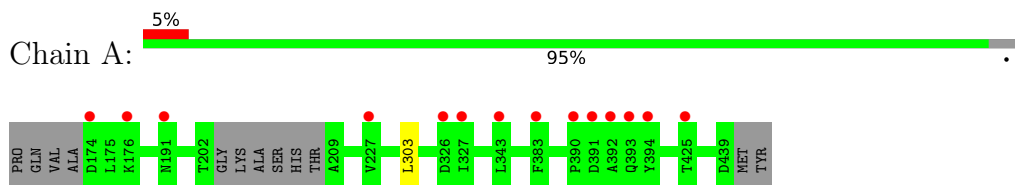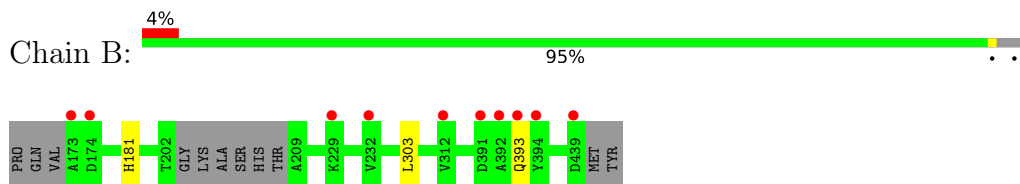
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	39.45Å 95.12Å 95.80Å 90.00° 96.44° 90.00°	Depositor
Resolution (Å)	47.59 – 1.90 47.60 – 1.90	Depositor EDS
% Data completeness (in resolution range)	85.3 (47.59-1.90) 85.4 (47.60-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.23 (at 1.90Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.210 , 0.269 0.211 , 0.270	Depositor DCC
R_{free} test set	1703 reflections (3.60%)	wwPDB-VP
Wilson B-factor (Å^2)	24.6	Xtriage
Anisotropy	0.569	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.43 , 53.9	EDS
L-test for twinning[2]	$< |L| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	9161	wwPDB-VP
Average B, all atoms (Å^2)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.75% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5   Model quality ⓘ

5.1   Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 7UG, PEG, K, B7G, PGO

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 $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$|Z|$>5	RMSZ	#$|Z|$>5
1	A	0.25	0/2176	0.41	0/2941
1	B	0.26	0/2214	0.42	0/2994
All	All	0.26	0/4390	0.42	0/5935

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2   Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2112	2164	2149	0	0
1	B	2135	2194	2150	1	0
2	A	37	30	0	0	0
2	B	37	30	0	0	0
3	A	21	30	30	0	0
3	B	21	30	30	0	0
4	A	20	32	32	0	0
5	B	38	52	52	0	0
6	B	1	0	0	0	0
7	A	87	0	0	0	0
7	B	90	0	0	1	0
All	All	4599	4562	4443	1	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 0.

All (1) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:GLN:O	7:B:601:HOH:O	2.07	0.71

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	260/272 (96%)	256 (98%)	4 (2%)	0	100	100
1	B	265/272 (97%)	260 (98%)	5 (2%)	0	100	100
All	All	525/544 (96%)	516 (98%)	9 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	235/240 (98%)	234 (100%)	1 (0%)	91	91
1	B	239/240 (100%)	237 (99%)	2 (1%)	81	82
All	All	474/480 (99%)	471 (99%)	3 (1%)	86	87

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	303	LEU
1	B	181	HIS
1	B	303	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 15 ligands modelled in this entry, 1 is monoatomic - leaving 14 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	$\#|Z| > 2$
4	PGO	A	506	-	3,4,4	0.29	0	1,4,4	0.06	0
3	PEG	A	503	-	6,6,6	0.55	0	5,5,5	0.27	0
2	7UG	A	501	-	40,40,40	0.94	1 (2%)	49,52,52	1.27	6 (12%)
3	PEG	B	505[A]	-	6,6,6	0.55	0	5,5,5	0.27	0
3	PEG	A	502	-	6,6,6	0.54	0	5,5,5	0.33	0
3	PEG	A	508	-	6,6,6	0.53	0	5,5,5	0.37	0
4	PGO	A	504	-	3,4,4	0.28	0	1,4,4	0.03	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#|Z| > 2	Counts	RMSZ	#|Z| > 2
4	PGO	A	507	-	3,4,4	0.29	0	1,4,4	0.12	0
5	B7G	B	501	-	19,19,19	0.88	1 (5%)	24,24,24	0.85	1 (4%)
5	B7G	B	502	-	19,19,19	0.88	0	24,24,24	0.91	2 (8%)
2	7UG	B	503	-	40,40,40	0.97	1 (2%)	49,52,52	1.34	7 (14%)
4	PGO	A	505	-	3,4,4	0.27	0	1,4,4	0.07	0
3	PEG	B	504	-	6,6,6	0.54	0	5,5,5	0.28	0
3	PEG	B	505[B]	-	6,6,6	0.55	0	5,5,5	0.23	0

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
4	PGO	A	506	-	-	2/2/2/2	-
3	PEG	A	503	-	-	2/4/4/4	-
2	7UG	A	501	-	-	2/29/29/29	0/4/4/4
3	PEG	B	505[A]	-	-	2/4/4/4	-
3	PEG	A	502	-	-	1/4/4/4	-
3	PEG	A	508	-	-	2/4/4/4	-
4	PGO	A	504	-	-	2/2/2/2	-
4	PGO	A	507	-	-	0/2/2/2	-
5	B7G	B	501	-	-	3/10/30/30	0/1/1/1
5	B7G	B	502	-	-	1/10/30/30	0/1/1/1
2	7UG	B	503	-	-	5/29/29/29	0/4/4/4
4	PGO	A	505	-	-	0/2/2/2	-
3	PEG	B	504	-	-	3/4/4/4	-
3	PEG	B	505[B]	-	-	1/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	503	7UG	C29-C22	5.01	1.40	1.37
2	A	501	7UG	C29-C22	4.98	1.40	1.37
5	B	501	B7G	O5-C1	2.03	1.47	1.41

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	503	7UG	C15-C14-N	5.35	125.51	118.72
2	A	501	7UG	C15-C14-N	4.73	124.72	118.72
2	A	501	7UG	C28-C22-C19	-3.00	123.55	126.32
2	B	503	7UG	C29-C22-C19	-2.94	123.58	127.58
2	B	503	7UG	C7-O-C	2.76	124.43	117.69
2	A	501	7UG	C29-C22-C19	-2.67	123.94	127.58
2	B	503	7UG	O3-C14-C15	-2.64	115.09	120.23
5	B	502	B7G	O5-C5-C4	2.55	114.33	109.69
2	A	501	7UG	O3-C14-C15	-2.47	115.43	120.23
2	A	501	7UG	C22-C29-S	-2.42	110.73	112.29
2	B	503	7UG	C10-C11-C12	-2.22	108.89	114.47
2	B	503	7UG	O-C-C5	2.19	118.64	115.78
5	B	502	B7G	C6-C5-C4	-2.18	107.90	113.00
2	A	501	7UG	C7-O-C	2.16	122.98	117.69
2	B	503	7UG	C28-C22-C19	-2.08	124.40	126.32
5	B	501	B7G	O5-C5-C4	2.01	113.34	109.69

There are no chirality outliers.

All (26) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	506	PGO	O1-C1-C2-O2
5	B	501	B7G	C4-C5-C6-O6
2	B	503	7UG	C9-C10-C11-C12
3	A	502	PEG	O2-C3-C4-O4
3	A	503	PEG	O1-C1-C2-O2
3	B	504	PEG	O2-C3-C4-O4
3	B	505[B]	PEG	O2-C3-C4-O4
2	B	503	7UG	C11-C10-C9-C8
2	B	503	7UG	C7-C8-C9-C10
5	B	501	B7G	C7-C8-C9-C10
3	A	508	PEG	O1-C1-C2-O2
3	B	505[A]	PEG	O1-C1-C2-O2
5	B	501	B7G	O5-C5-C6-O6
5	B	502	B7G	C4-C5-C6-O6
4	A	504	PGO	O1-C1-C2-C3
4	A	506	PGO	O1-C1-C2-C3
3	A	508	PEG	O2-C3-C4-O4
3	A	503	PEG	C1-C2-O2-C3
3	B	504	PEG	C1-C2-O2-C3
2	A	501	7UG	C10-C11-C12-O1
2	B	503	7UG	C10-C11-C12-O1
2	B	503	7UG	C10-C11-C12-O2

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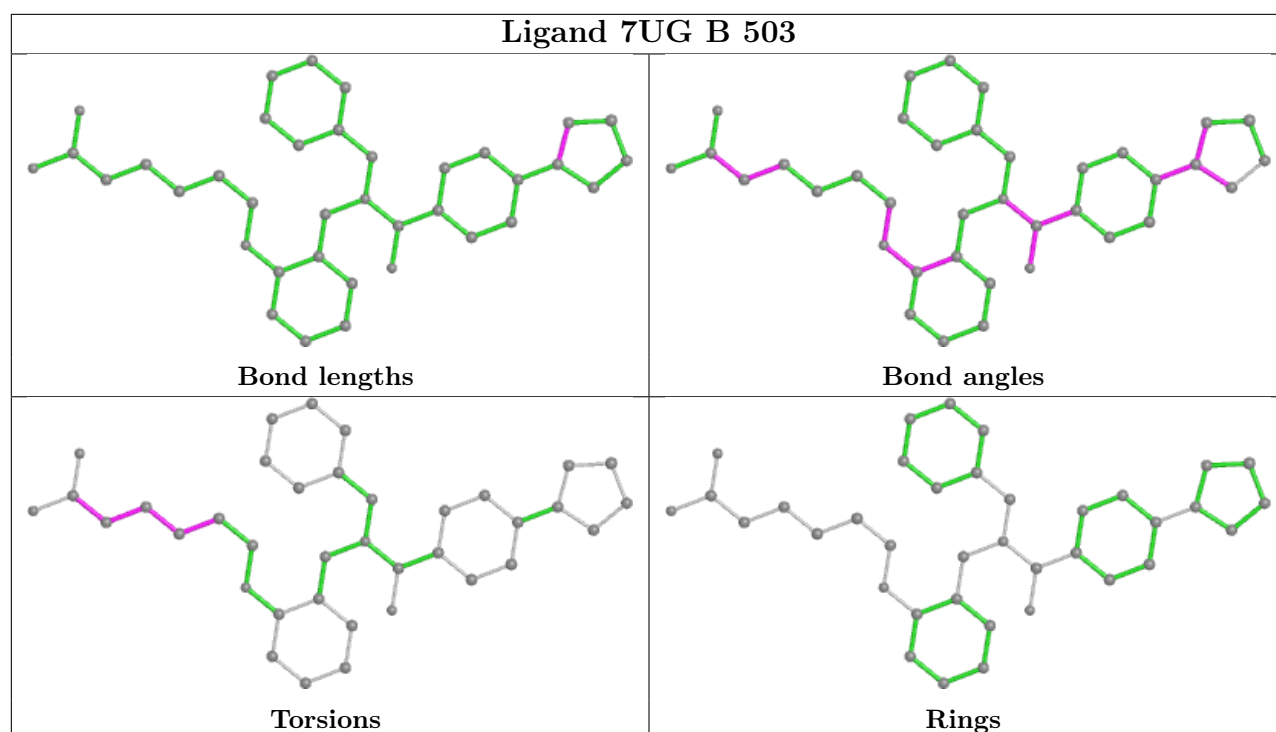| Mol	Chain	Res	Type	Atoms
3	B	505[A]	PEG	O2-C3-C4-O4
2	A	501	7UG	C10-C11-C12-O2
3	B	504	PEG	O1-C1-C2-O2
4	A	504	PGO	O1-C1-C2-O2

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 then 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 7UG A 501

Bond lengths

Bond angles

Torsions

Rings

Ligand B7G B 501

Bond lengths

Bond angles

Torsions

Rings

Ligand B7G B 502

Bond lengths

Bond angles

Torsions

Rings

Ligand 7UG B 503

Bond lengths

Bond angles

Torsions

Rings
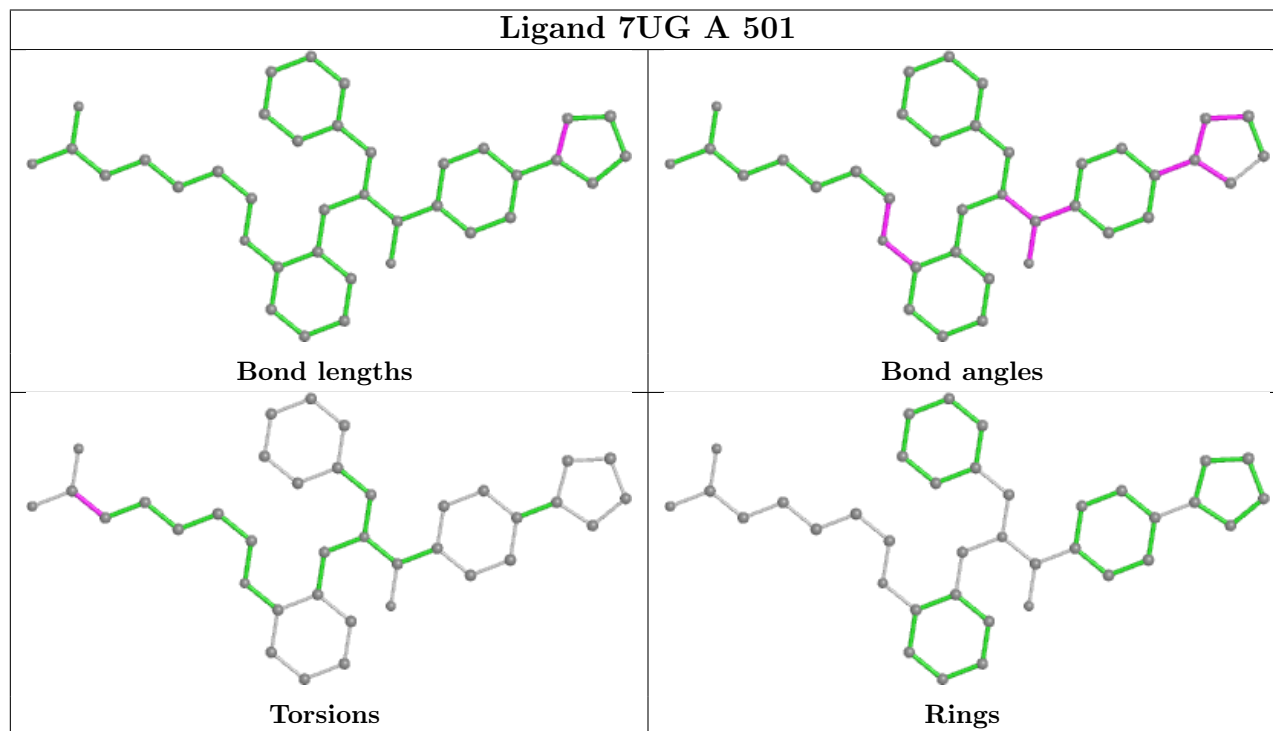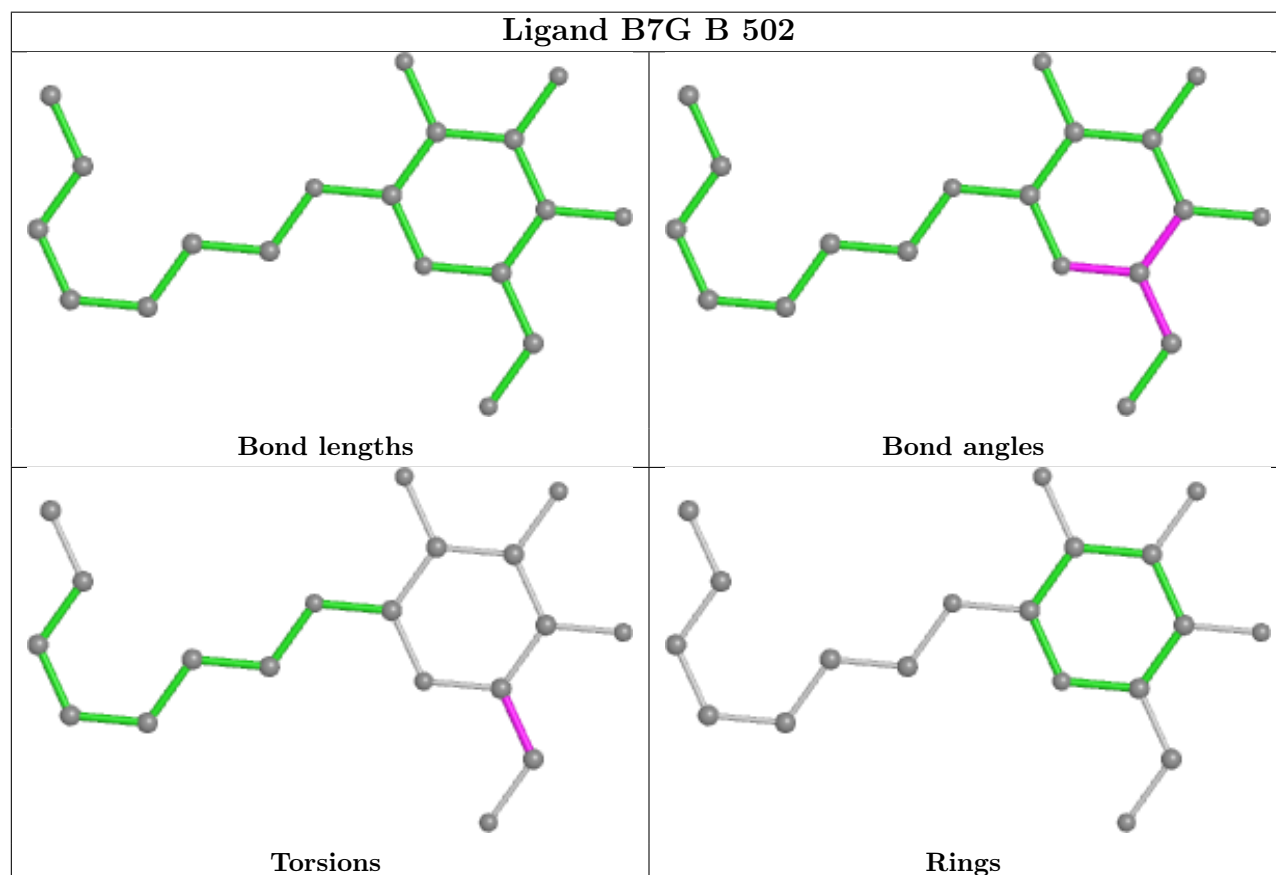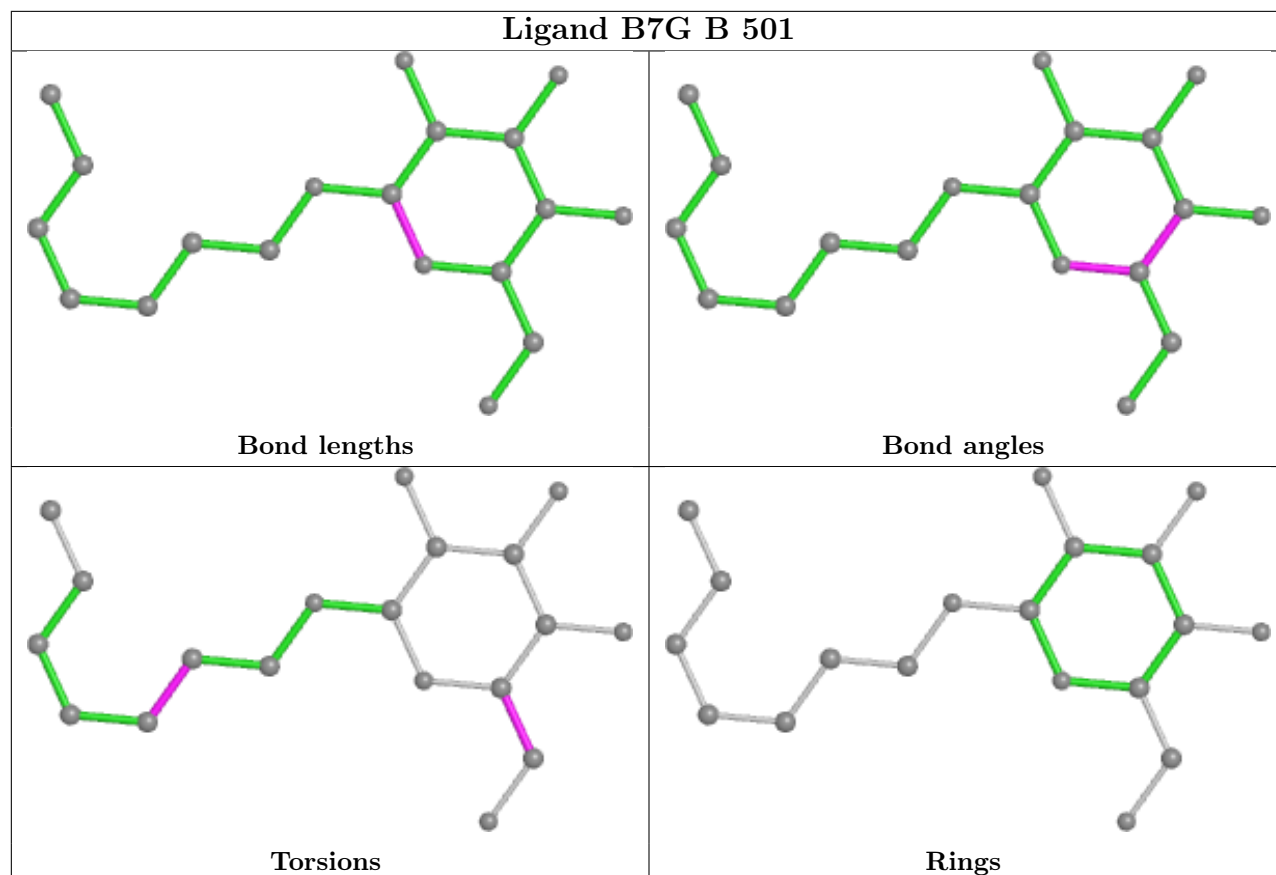
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6   Fit of model and data ⓘ

6.1   Protein, DNA and RNA chains ⓘ

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	260/272 (95%)	0.73	14 (5%)	25	29	16, 32, 57, 99	0
1	B	261/272 (95%)	0.58	10 (3%)	40	43	14, 27, 51, 82	0
All	All	521/544 (95%)	0.65	24 (4%)	32	35	14, 30, 55, 99	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	394	TYR	4.9
1	B	173	ALA	4.3
1	A	392	ALA	3.5
1	B	391	ASP	3.3
1	A	391	ASP	3.2
1	A	383	PHE	3.2
1	A	227	VAL	3.2
1	B	392	ALA	3.2
1	A	425	THR	3.1
1	B	174	ASP	2.9
1	B	229	LYS	2.8
1	A	393	GLN	2.8
1	A	174	ASP	2.7
1	A	176	LYS	2.6
1	B	394	TYR	2.6
1	A	326	ASP	2.5
1	B	312[A]	VAL	2.5
1	A	390	PRO	2.5
1	B	393	GLN	2.5
1	A	327	ILE	2.4
1	B	439	ASP	2.3
1	A	191	ASN	2.3
1	B	232	VAL	2.1
1	A	343	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

| Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($Å^2$)	Q<0.9
4	PGO	A	505	5/5	0.62	0.43	41,66,78,85	0
4	PGO	A	507	5/5	0.66	0.22	35,52,58,67	0
4	PGO	A	506	5/5	0.68	0.18	39,53,74,75	0
3	PEG	B	505[B]	7/7	0.69	0.30	10,50,65,65	17
3	PEG	B	505[A]	7/7	0.69	0.30	38,50,64,64	17
3	PEG	A	502	7/7	0.72	0.21	37,63,80,80	0
3	PEG	B	504	7/7	0.73	0.14	51,61,72,72	0
4	PGO	A	504	5/5	0.76	0.11	35,43,62,62	0
3	PEG	A	508	7/7	0.79	0.22	54,72,96,113	0
3	PEG	A	503	7/7	0.83	0.17	33,48,64,69	0
6	K	B	506	1/1	0.86	0.17	37,37,37,37	0
5	B7G	B	501	19/19	0.88	0.14	25,34,42,46	0
5	B7G	B	502	19/19	0.90	0.14	25,36,61,73	0
2	7UG	A	501	37/37	0.92	0.14	14,26,50,62	0
2	7UG	B	503	37/37	0.93	0.14	9,22,50,54	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around B7G B 501:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
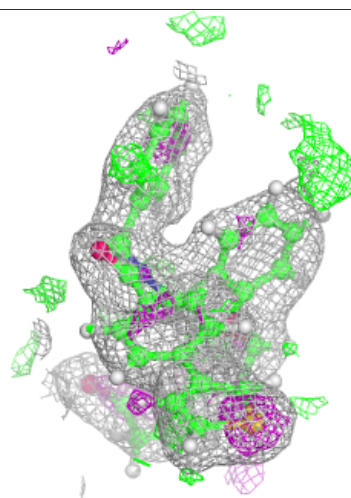$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
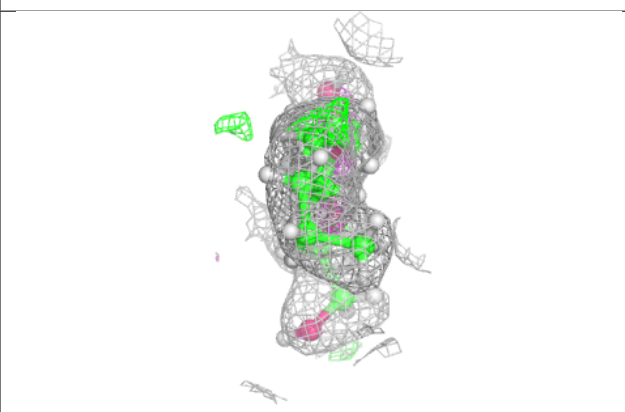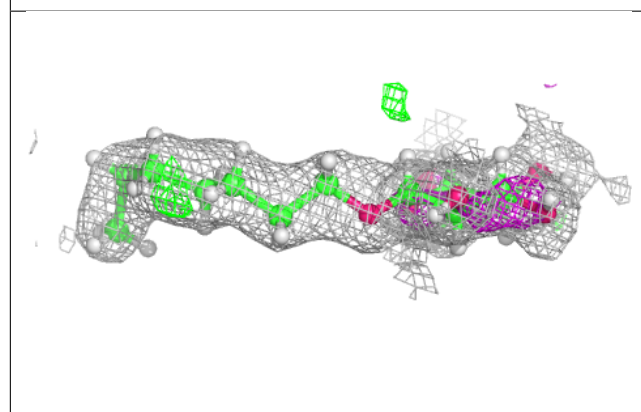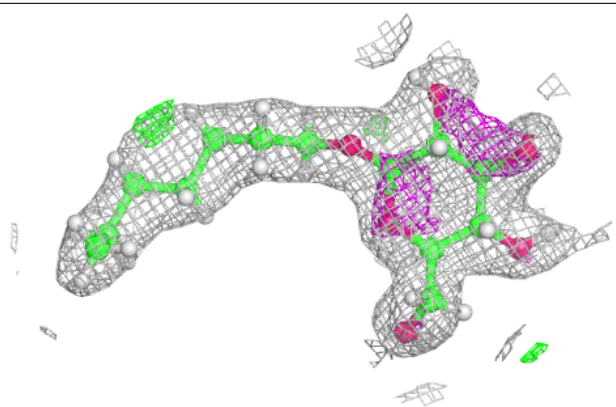
Electron density around B7G B 502:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
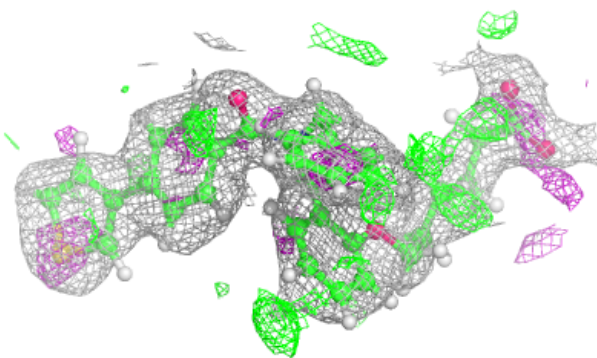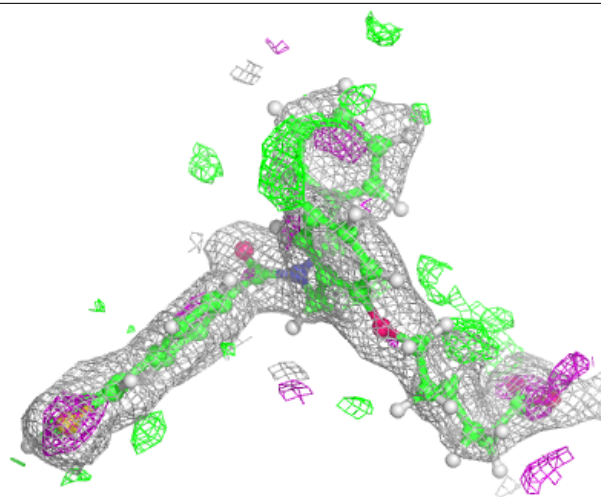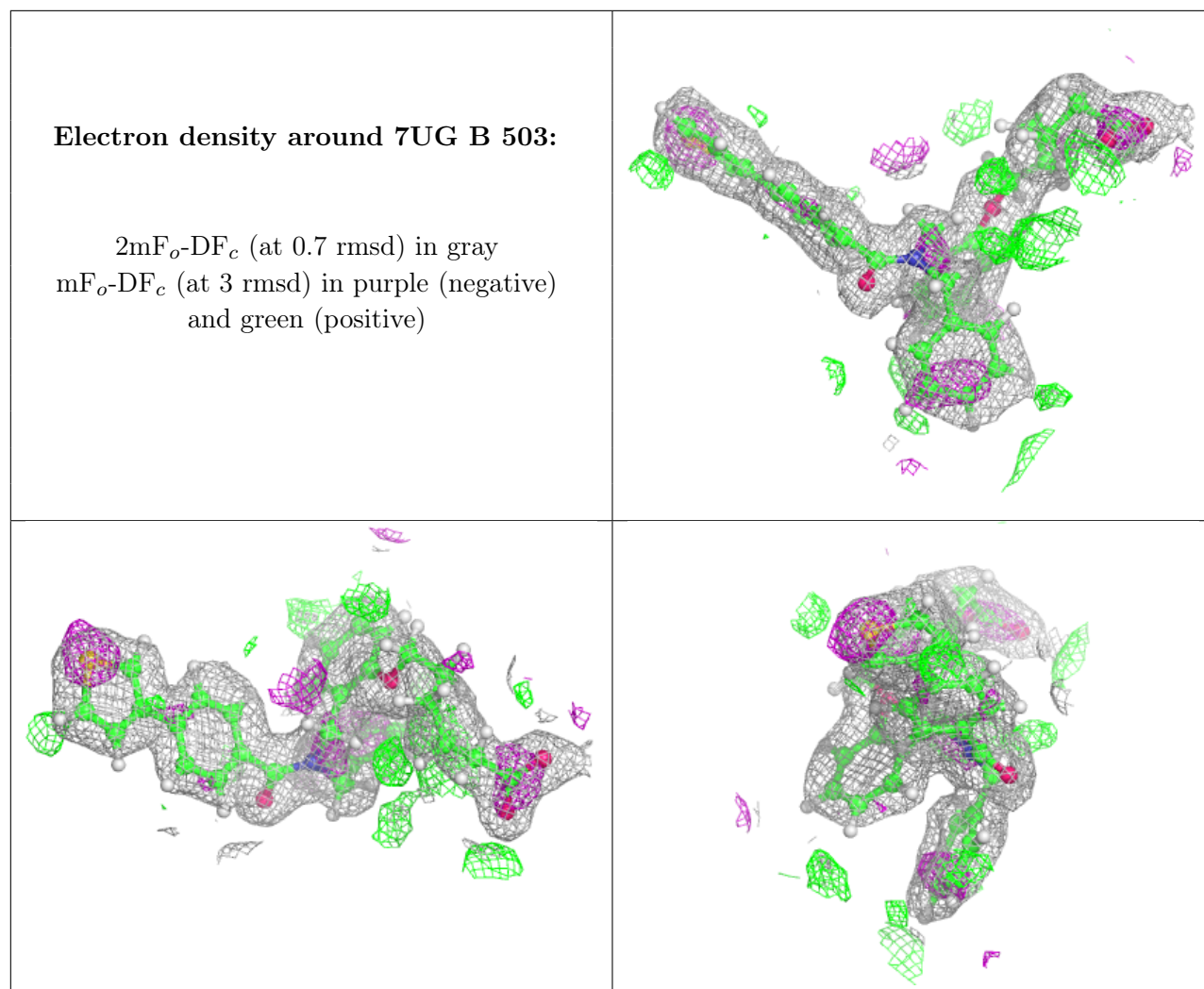$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
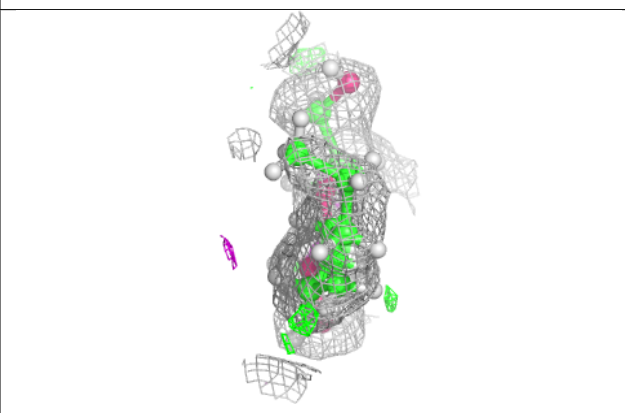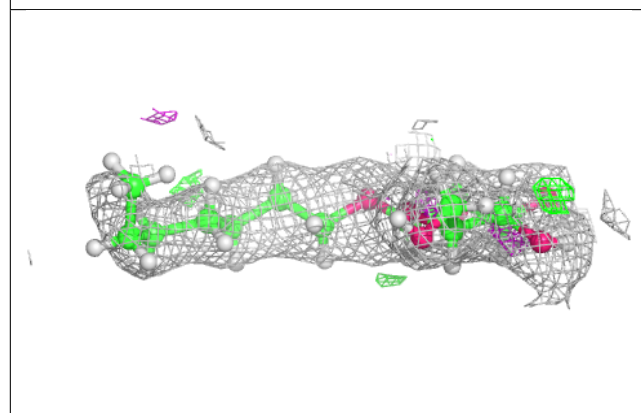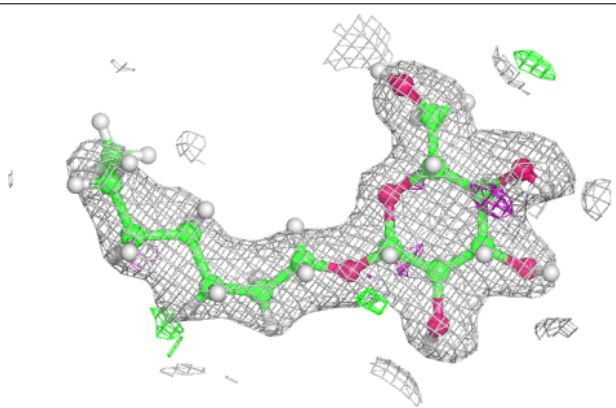
Electron density around 7UG A 501:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around 7UG B 503:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

6.5 Other polymers ⓘ

There are no such residues in this entry.