



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 22, 2024 – 09:21 AM EDT

PDB ID : 3UPH
Title : Synthesis of novel 4,5-dihydrofurano indoles and their evaluation as HCV NS5B polymerase inhibitors
Authors : Velazquez, F.; Venkataraman, S.; Lesburg, C.A.; Duca, J.S.; Rosenblum, S.B.; Kozlowski, J.A.; Njoroge, F.G.
Deposited on : 2011-11-18
Resolution : 2.00 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

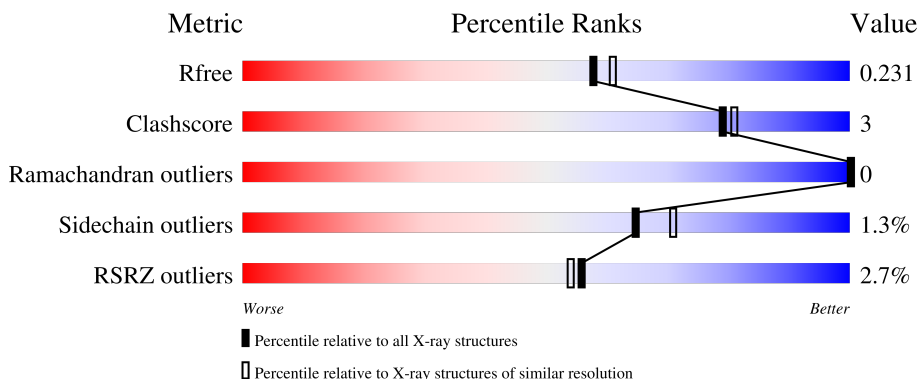
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	9409 (2.00-2.00)
Clashscore	180529	10737 (2.00-2.00)
Ramachandran outliers	177936	10628 (2.00-2.00)
Sidechain outliers	177891	10627 (2.00-2.00)
RSRZ outliers	164620	9409 (2.00-2.00)

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 $\leq 5\%$. 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	576	 5% 94%
1	B	576	 5% 89% 8%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9846 atoms, of which 0 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 RNA-directed RNA polymerase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	563	4400	2769	782	815	34	0	1	0
1	B	558	4359	2745	771	809	34	0	1	0

There are 16 discrepancies between the modelled and reference sequences:

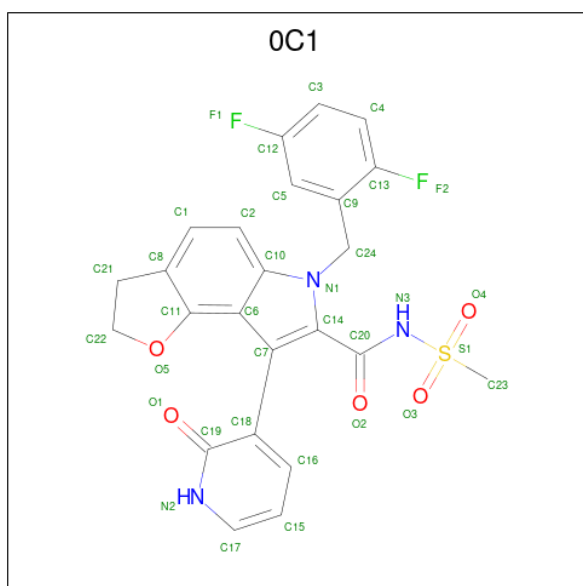
Chain	Residue	Modelled	Actual	Comment	Reference
A	440	GLY	GLU	conflict	UNP O92972
A	520	ILE	THR	conflict	UNP O92972
A	571	GLU	-	expression tag	UNP O92972
A	572	ASN	-	expression tag	UNP O92972
A	573	LEU	-	expression tag	UNP O92972
A	574	TYR	-	expression tag	UNP O92972
A	575	PHE	-	expression tag	UNP O92972
A	576	GLN	-	expression tag	UNP O92972
B	440	GLY	GLU	conflict	UNP O92972
B	520	ILE	THR	conflict	UNP O92972
B	571	GLU	-	expression tag	UNP O92972
B	572	ASN	-	expression tag	UNP O92972
B	573	LEU	-	expression tag	UNP O92972
B	574	TYR	-	expression tag	UNP O92972
B	575	PHE	-	expression tag	UNP O92972
B	576	GLN	-	expression tag	UNP O92972

- Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	P		
2	A	1	5	4	1	0	0

- Molecule 3 is 6-(2,5-difluorobenzyl)-N-(methylsulfonyl)-8-(2-oxo-1,2-dihydropyridin-3-yl)-3,6-dihydro-2H-furo[2,3-e]indole-7-carboxamide (three-letter code: 0C1) (formula: $C_{24}H_{19}F_2N_3O_5S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	F	N	O			S
3	A	1	35	24	2	3	5	1	0	0
3	B	1	35	24	2	3	5	1	0	0

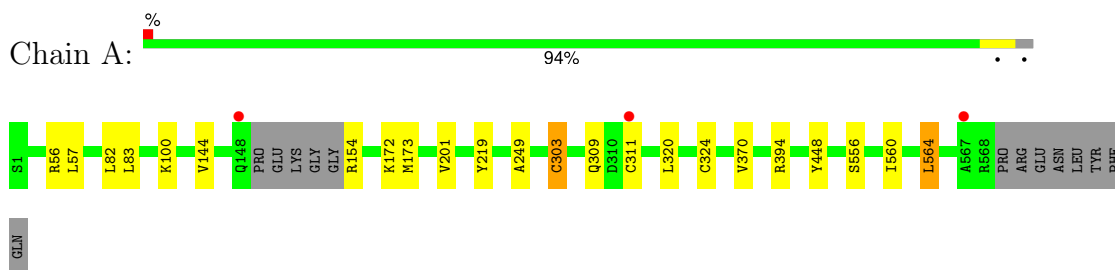
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	534	Total 534	O 534	0	0
4	B	478	Total 478	O 478	0	0

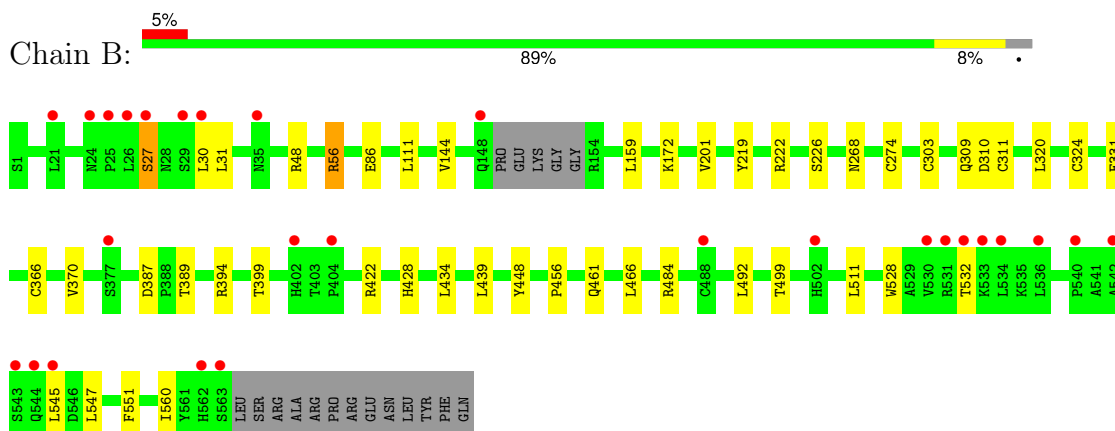
3 Residue-property plots [i](#)

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: RNA-directed RNA polymerase



- Molecule 1: RNA-directed RNA polymerase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	89.97Å 106.33Å 134.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.89 – 2.00 19.89 – 2.00	Depositor EDS
% Data completeness (in resolution range)	86.4 (19.89-2.00) 86.3 (19.89-2.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.01Å)	Xtrriage
Refinement program	BUSTER 2.9.4	Depositor
R, R_{free}	0.185 , 0.230 0.185 , 0.231	Depositor DCC
R_{free} test set	3755 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	24.0	Xtrriage
Anisotropy	0.494	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 54.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9846	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.06% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ 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: 0C1, PO4

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	0.50	0/4494	0.63	0/6096
1	B	0.49	0/4453	0.65	0/6042
All	All	0.49	0/8947	0.64	0/12138

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	4400	0	4421	16	0
1	B	4359	0	4374	26	0
2	A	5	0	0	0	0
3	A	35	0	19	1	0
3	B	35	0	19	2	0
4	A	534	0	0	2	0
4	B	478	0	0	1	0
All	All	9846	0	8833	42	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 3.

All (42) 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:303[A]:CYS:HG	1:B:311:CYS:HG	1.30	0.75
1:A:303[B]:CYS:HG	1:A:311:CYS:HG	1.33	0.72
1:A:303[A]:CYS:HG	1:A:311:CYS:HG	1.42	0.65
1:B:389:THR:HG23	1:B:492:LEU:HD21	1.80	0.63
1:B:309:GLN:O	1:B:324:CYS:HB2	2.04	0.58
1:B:144:VAL:HB	1:B:394:ARG:HG2	1.87	0.56
1:B:448:TYR:HA	3:B:577:OC1:H19	1.69	0.55
1:B:387:ASP:HA	1:B:484:ARG:HD3	1.89	0.55
1:A:303[A]:CYS:HG	1:A:311:CYS:CB	2.20	0.52
1:A:303[A]:CYS:SG	1:A:311:CYS:HB2	2.49	0.52
1:A:154:ARG:NH1	4:A:657:HOH:O	2.34	0.52
1:A:82:LEU:HD13	1:A:249:ALA:HB2	1.92	0.52
1:A:219:TYR:HB3	1:A:320:LEU:HD23	1.92	0.51
1:B:303[A]:CYS:SG	1:B:311:CYS:CB	2.99	0.51
1:B:201:VAL:HG23	1:B:370:VAL:HG22	1.93	0.50
1:B:30:LEU:HB2	1:B:428:HIS:CE1	2.47	0.50
1:A:303[A]:CYS:SG	1:A:311:CYS:CB	3.01	0.49
1:B:466:LEU:HD22	1:B:551:PHE:HE2	1.76	0.49
1:B:545:LEU:HB3	1:B:547:LEU:HG	1.95	0.49
1:B:331:GLU:CD	4:B:1001:HOH:O	2.50	0.48
1:B:27:SER:HB2	1:B:399:THR:HB	1.95	0.47
1:A:172:LYS:HE3	1:A:560:ILE:HD13	1.95	0.47
1:A:448:TYR:HA	3:A:578:OC1:H19	1.79	0.47
1:B:434:LEU:HD11	1:B:511:LEU:HG	1.97	0.47
1:B:439:LEU:O	1:B:456:PRO:HD2	2.16	0.46
1:B:86:GLU:HA	1:B:111:LEU:HD21	1.97	0.46
1:B:48:ARG:HG2	1:B:159:LEU:HG	1.98	0.45
1:A:83:LEU:HB2	1:A:173:MET:HA	1.99	0.45
1:B:219:TYR:HB3	1:B:320:LEU:HD23	2.00	0.44
1:B:31:LEU:HD11	1:B:492:LEU:HD12	1.99	0.44
1:B:422:ARG:NH2	1:B:528:TRP:HB3	2.33	0.43
1:B:172:LYS:HE3	1:B:560:ILE:HD13	2.00	0.43
1:B:466:LEU:HD22	1:B:551:PHE:CE2	2.53	0.43
1:B:56:ARG:HD2	1:B:226:SER:O	2.19	0.43
1:A:57:LEU:O	4:A:1055:HOH:O	2.22	0.42
1:A:144:VAL:HB	1:A:394:ARG:HG2	2.02	0.42
1:A:201:VAL:HG23	1:A:370:VAL:HG22	2.01	0.41
1:A:564:LEU:HD22	1:A:564:LEU:HA	1.91	0.41
1:B:268:ASN:HB3	1:B:274:CYS:SG	2.61	0.41
1:B:545:LEU:HD13	1:B:547:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:GLN:O	1:A:324:CYS:HB2	2.20	0.40
1:B:366:CYS:HB3	3:B:577:OC1:C5	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	561/576 (97%)	554 (99%)	7 (1%)	0	100	100
1	B	556/576 (96%)	544 (98%)	12 (2%)	0	100	100
All	All	1117/1152 (97%)	1098 (98%)	19 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	481/490 (98%)	474 (98%)	7 (2%)	60	66
1	B	477/490 (97%)	470 (98%)	7 (2%)	60	66
All	All	958/980 (98%)	944 (98%)	14 (2%)	65	66

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	ARG
1	A	100	LYS
1	A	303[A]	CYS
1	A	303[B]	CYS
1	A	303[C]	CYS
1	A	556	SER
1	A	564	LEU
1	B	27	SER
1	B	56	ARG
1	B	222	ARG
1	B	310	ASP
1	B	461	GLN
1	B	499	THR
1	B	532	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	184	GLN
1	A	406	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 ligands are modelled in this entry.

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
3	OC1	A	578	-	34,39,39	1.60	4 (11%)	48,59,59	1.48	8 (16%)
3	OC1	B	577	-	34,39,39	1.61	4 (11%)	48,59,59	1.62	11 (22%)
2	PO4	A	577	-	4,4,4	2.33	2 (50%)	6,6,6	0.41	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
3	OC1	A	578	-	-	6/11/23/23	0/5/5/5
3	OC1	B	577	-	-	6/11/23/23	0/5/5/5

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	577	OC1	C18-C19	5.70	1.53	1.46
3	A	578	OC1	C18-C19	5.30	1.53	1.46
2	A	577	PO4	P-O1	3.55	1.58	1.50
3	A	578	OC1	C7-C18	-3.52	1.44	1.49
3	B	577	OC1	C7-C18	-3.41	1.44	1.49
2	A	577	PO4	P-O4	2.87	1.63	1.54
3	A	578	OC1	S1-N3	2.86	1.70	1.65
3	B	577	OC1	S1-N3	2.64	1.70	1.65
3	A	578	OC1	O5-C11	2.49	1.39	1.37
3	B	577	OC1	O5-C11	2.03	1.39	1.37

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	577	OC1	C16-C18-C19	-4.18	117.03	119.39
3	A	578	OC1	C22-C21-C8	-4.08	98.63	101.97
3	A	578	OC1	C16-C18-C19	-3.66	117.32	119.39
3	B	577	OC1	C9-C24-N1	-3.51	107.45	113.23
3	B	577	OC1	C22-C21-C8	-3.13	99.41	101.97
3	B	577	OC1	O4-S1-C23	-3.00	103.52	108.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	577	0C1	C1-C8-C11	2.75	121.81	119.94
3	A	578	0C1	O4-S1-C23	-2.73	103.94	108.26
3	A	578	0C1	C1-C8-C11	2.71	121.78	119.94
3	A	578	0C1	C9-C24-N1	-2.68	108.82	113.23
3	B	577	0C1	O1-C19-C18	-2.60	121.89	125.19
3	B	577	0C1	O2-C20-N3	-2.36	118.26	121.16
3	B	577	0C1	C21-C8-C11	2.33	109.57	107.98
3	B	577	0C1	O3-S1-N3	2.28	111.44	106.83
3	A	578	0C1	O1-C19-C18	-2.21	122.39	125.19
3	B	577	0C1	C7-C14-C20	-2.20	125.73	130.77
3	A	578	0C1	C7-C14-C20	-2.17	125.78	130.77
3	B	577	0C1	C7-C6-C11	2.06	136.57	132.93
3	A	578	0C1	C21-C8-C11	2.04	109.37	107.98

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	578	0C1	C19-C18-C7-C6
3	A	578	0C1	O2-C20-N3-S1
3	A	578	0C1	C20-N3-S1-C23
3	A	578	0C1	C20-N3-S1-O4
3	B	577	0C1	C19-C18-C7-C6
3	B	577	0C1	O2-C20-N3-S1
3	B	577	0C1	C20-N3-S1-C23
3	B	577	0C1	C20-N3-S1-O4
3	A	578	0C1	C14-C20-N3-S1
3	B	577	0C1	C14-C20-N3-S1
3	A	578	0C1	C19-C18-C7-C14
3	B	577	0C1	C19-C18-C7-C14

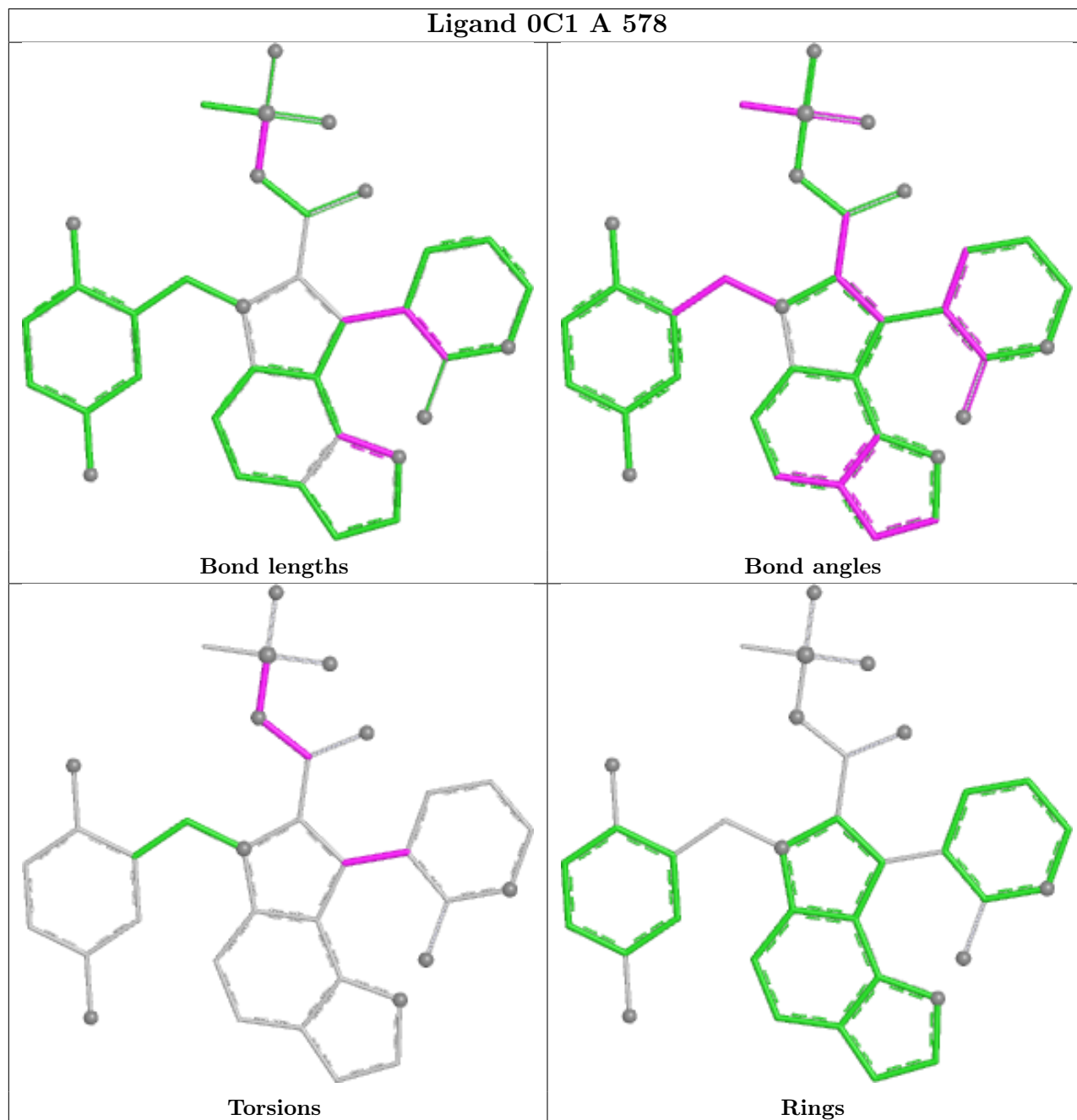
There are no ring outliers.

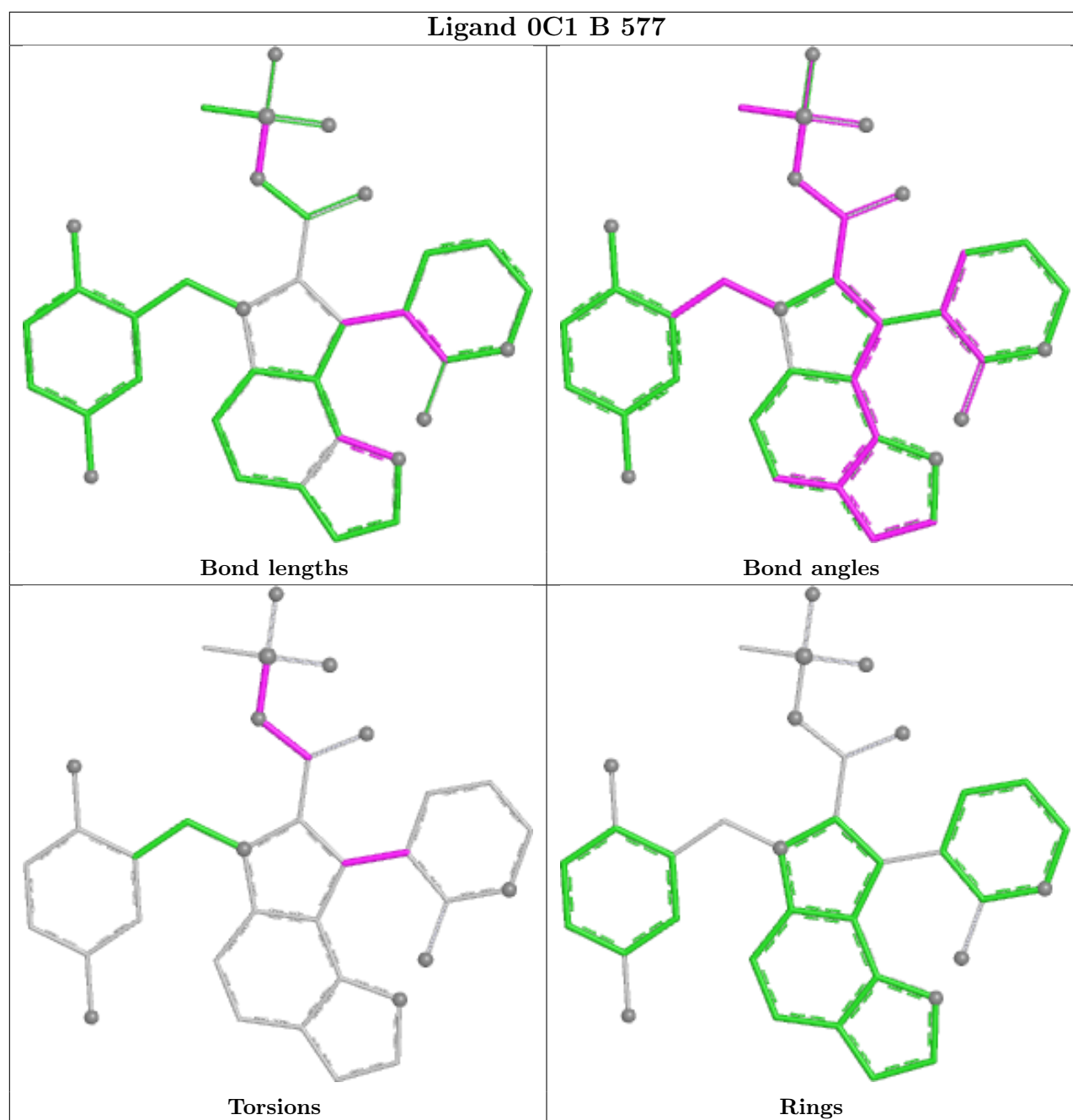
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	578	0C1	1	0
3	B	577	0C1	2	0

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.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

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	563/576 (97%)	-0.45	3 (0%) 87 86	10, 24, 45, 105	1 (0%)
1	B	558/576 (96%)	-0.08	27 (4%) 36 35	8, 29, 65, 96	1 (0%)
All	All	1121/1152 (97%)	-0.27	30 (2%) 56 54	8, 26, 53, 105	2 (0%)

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	545	LEU	5.1
1	B	563	SER	5.0
1	B	532	THR	4.1
1	B	544	GLN	3.8
1	B	26	LEU	3.6
1	B	542	ALA	3.4
1	B	531	ARG	3.2
1	A	567	ALA	2.8
1	B	25	PRO	2.8
1	B	402	HIS	2.7
1	B	534	LEU	2.6
1	B	30	LEU	2.6
1	B	404	PRO	2.4
1	B	562	HIS	2.4
1	B	536	LEU	2.4
1	B	27	SER	2.4
1	B	543	SER	2.3
1	B	35	ASN	2.3
1	A	311	CYS	2.3
1	B	533	LYS	2.2
1	B	24	ASN	2.2
1	B	21	LEU	2.1
1	B	29	SER	2.1
1	B	148	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	530	VAL	2.1
1	B	488	CYS	2.1
1	B	377	SER	2.1
1	B	502	HIS	2.1
1	B	540	PRO	2.0
1	A	148	GLN	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

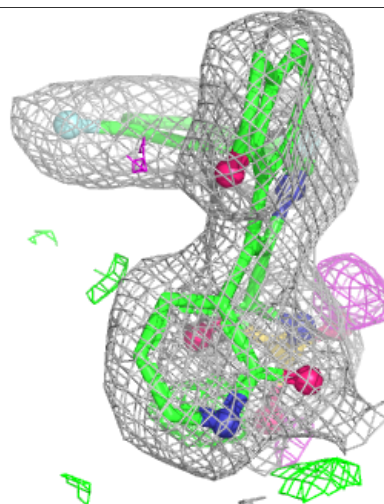
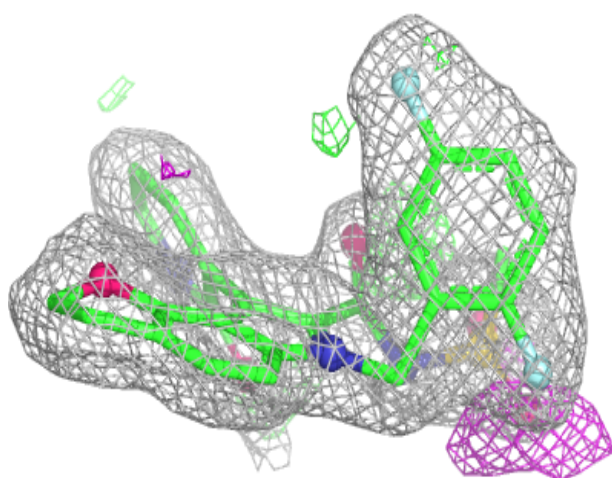
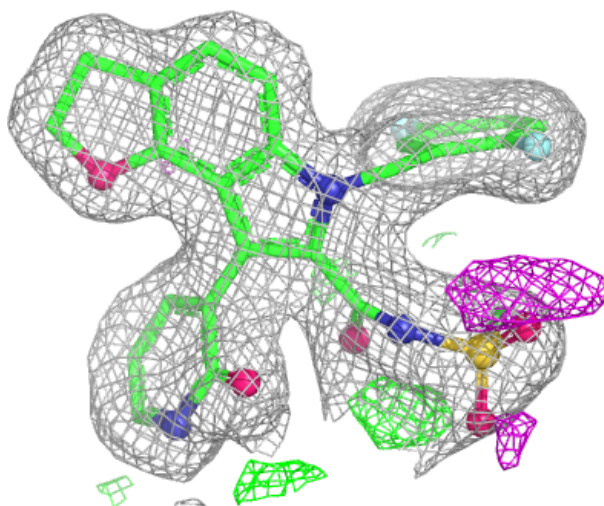
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	0C1	B	577	35/35	0.92	0.08	20,24,44,48	0
3	0C1	A	578	35/35	0.95	0.07	18,22,41,44	0
2	PO4	A	577	5/5	0.97	0.07	30,30,34,35	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.

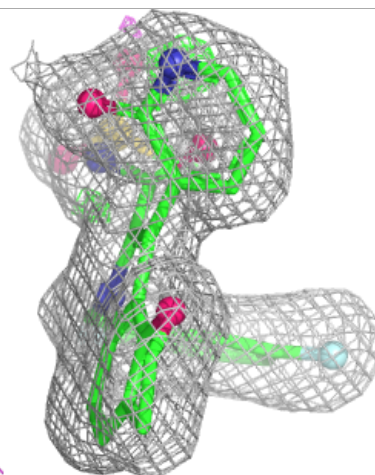
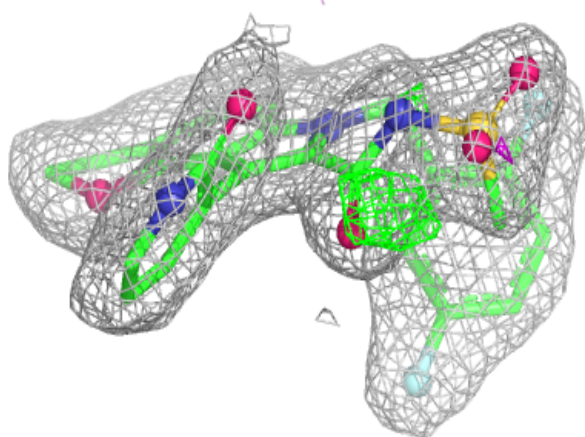
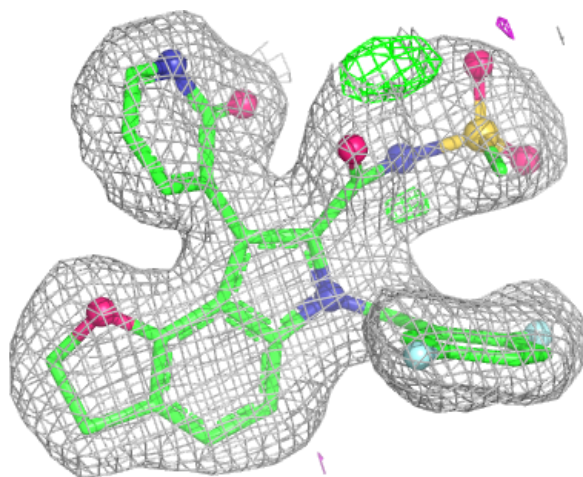
Electron density around 0C1 B 577:

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



Electron density around 0C1 A 578:

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



6.5 Other polymers [i](#)

There are no such residues in this entry.