



Full wwPDB X-ray Structure Validation Report ⓘ

May 14, 2020 – 12:55 pm BST

PDB ID : 6IIL
Title : USP14 catalytic domain bind to IU1-47
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Deposited on : 2018-10-07
Resolution : 2.20 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 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 : 2.11
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) : 2.11

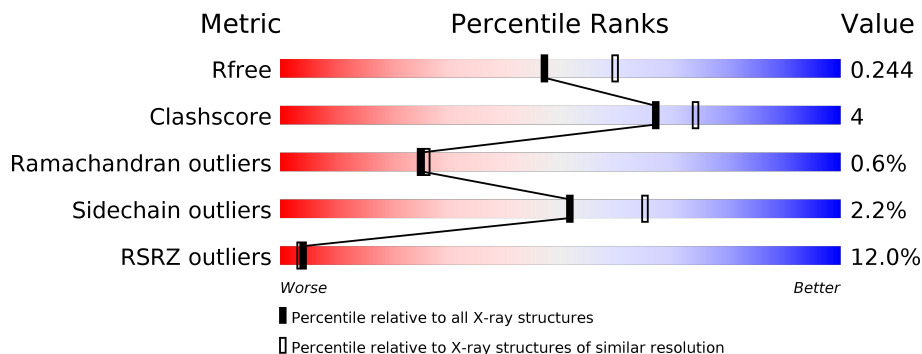
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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 on 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	399	 6% (Poor fit), 79% (0-3 outliers), 6% (1 outlier), 15% (2-3 outliers)
1	B	399	 14% (Poor fit), 71% (0-3 outliers), 12% (1 outlier), 17% (2-3 outliers)

2 Entry composition [i](#)

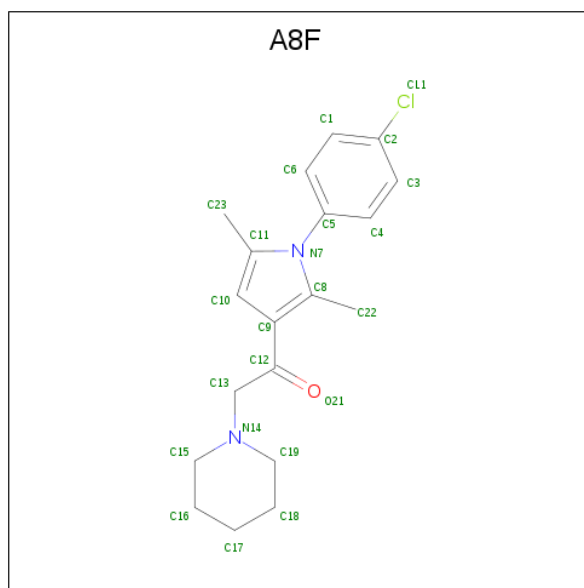
There are 3 unique types of molecules in this entry. The entry contains 5658 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Ubiquitin carboxyl-terminal hydrolase 14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	341	Total	C	N	O	S	0	0	0
			2752	1753	457	523	19			
1	B	332	Total	C	N	O	S	0	0	0
			2677	1705	446	507	19			

- Molecule 2 is 1-[1-(4-chlorophenyl)-2,5-dimethyl-1H-pyrrol-3-yl]-2-(piperidin-1-yl)ethan-1-one (three-letter code: A8F) (formula: C₁₉H₂₃ClN₂O).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	N	O		
2	A	1	Total	C	Cl	N	O	0	0
			23	19	1	2	1		
2	B	1	Total	C	Cl	N	O	0	0
			23	19	1	2	1		

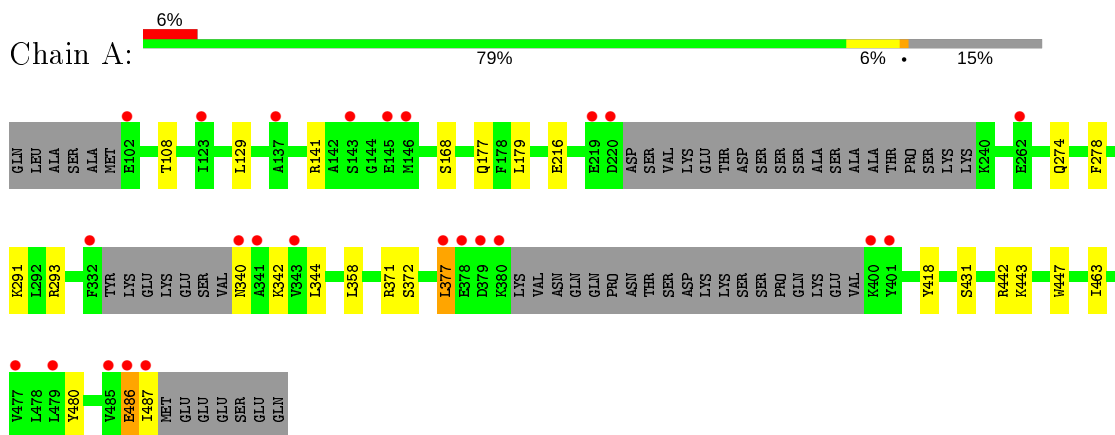
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	127	Total 127	O 127	0	0
3	B	56	Total 56	O 56	0	0

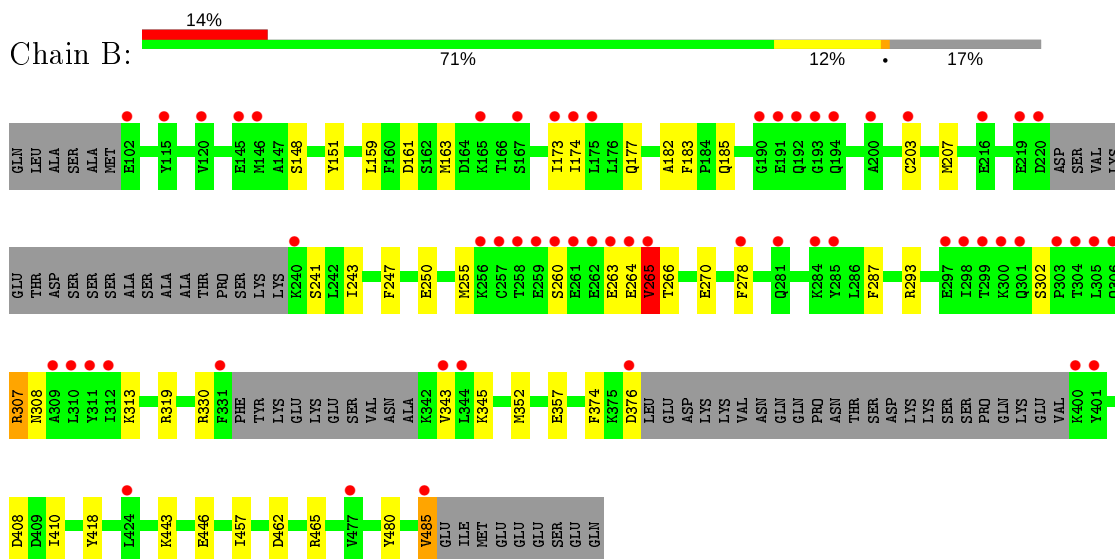
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Ubiquitin carboxyl-terminal hydrolase 14



- Molecule 1: Ubiquitin carboxyl-terminal hydrolase 14



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	58.43Å 81.40Å 108.16Å 90.00° 94.62° 90.00°	Depositor
Resolution (Å)	30.00 – 2.20 29.58 – 2.19	Depositor EDS
% Data completeness (in resolution range)	93.7 (30.00-2.20) 93.8 (29.58-2.19)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.17 (at 2.20Å)	Xtrriage
Refinement program	SHELXL 1.8_1069	Depositor
R, R_{free}	0.188 , 0.232 0.201 , 0.244	Depositor DCC
R_{free} test set	2491 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	44.5	Xtrriage
Anisotropy	0.496	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5658	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.58% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: A8F

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	0.45	0/2803	0.58	0/3772
1	B	0.35	0/2727	0.53	0/3670
All	All	0.40	0/5530	0.55	0/7442

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 [i](#)

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	2752	0	2737	16	0
1	B	2677	0	2666	28	0
2	A	23	0	0	1	0
2	B	23	0	0	0	0
3	A	127	0	0	3	1
3	B	56	0	0	3	0
All	All	5658	0	5403	42	1

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 4.

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:A:216:GLU:O	3:A:601:HOH:O	2.01	0.78
1:B:410:ILE:O	3:B:601:HOH:O	2.06	0.73
1:A:274:GLN:NE2	3:A:602:HOH:O	2.04	0.69
1:A:141:ARG:HA	1:B:173:ILE:HD11	1.73	0.68
1:A:371:ARG:O	3:A:603:HOH:O	2.10	0.68
1:B:408:ASP:OD1	3:B:602:HOH:O	2.14	0.65
1:B:270:GLU:OE2	1:B:313:LYS:NZ	2.31	0.60
1:A:278:PHE:HB2	1:A:293:ARG:HH11	1.66	0.60
1:B:161:ASP:OD2	3:B:603:HOH:O	2.18	0.55
1:A:342:LYS:HE3	2:A:501:A8F:CL1	2.44	0.54
1:B:278:PHE:HB2	1:B:293:ARG:HH11	1.73	0.54
1:B:418:TYR:HB3	1:B:480:TYR:HB3	1.90	0.53
1:B:343:VAL:HG12	1:B:345:LYS:H	1.73	0.53
1:B:148:SER:HA	1:B:151:TYR:CZ	2.45	0.52
1:B:462:ASP:OD1	1:B:465:ARG:NH2	2.43	0.51
1:A:340:ASN:O	1:A:431:SER:OG	2.21	0.50
1:B:287:PHE:HZ	1:B:357:GLU:HB2	1.77	0.50
1:A:377:LEU:HD23	1:A:486:GLU:HG2	1.94	0.50
1:A:177:GLN:OE1	1:B:177:GLN:NE2	2.46	0.48
1:A:129:LEU:HD12	1:A:129:LEU:HA	1.69	0.47
1:B:159:LEU:O	1:B:163:MET:HG3	2.13	0.47
1:B:446:GLU:HG3	1:B:457:ILE:HG23	1.96	0.47
1:A:442:ARG:HD3	1:A:443:LYS:HE3	1.97	0.46
1:B:250:GLU:HB2	1:B:319:ARG:HB3	1.98	0.46
1:B:183:PHE:HB3	1:B:185:GLN:NE2	2.32	0.45
1:B:148:SER:HA	1:B:151:TYR:CE1	2.53	0.44
1:B:302:SER:HB3	1:B:307:ARG:O	2.17	0.44
1:A:291:LYS:HG2	1:A:358:LEU:HD21	2.00	0.44
1:A:447:TRP:CD2	1:A:463:ILE:HG13	2.53	0.44
1:B:255:MET:HB3	1:B:266:THR:HG23	2.00	0.43
1:A:377:LEU:HD13	1:A:377:LEU:HA	1.75	0.43
1:A:418:TYR:HB3	1:A:480:TYR:HB3	1.99	0.43
1:B:307:ARG:HE	1:B:307:ARG:HB2	1.48	0.42
1:B:173:ILE:HD12	1:B:174:ILE:HG13	2.02	0.42
1:B:243:ILE:O	1:B:247:PHE:HB2	2.20	0.42
1:B:263:GLU:C	1:B:265:VAL:H	2.23	0.41
1:B:374:PHE:CE2	1:B:485:VAL:HG13	2.55	0.41
1:A:344:LEU:H	1:A:344:LEU:HD23	1.85	0.41
1:B:307:ARG:HD3	1:B:308:ASN:O	2.20	0.41
1:B:148:SER:HB2	1:B:182:ALA:HB2	2.02	0.41
1:B:203:CYS:O	1:B:207:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:LYS:HB2	1:B:446:GLU:HB3	2.02	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:722:HOH:O	3:A:723:HOH:O[2_545]	2.13	0.07

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	333/399 (84%)	317 (95%)	15 (4%)	1 (0%)	41	46
1	B	324/399 (81%)	307 (95%)	14 (4%)	3 (1%)	17	16
All	All	657/798 (82%)	624 (95%)	29 (4%)	4 (1%)	25	26

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	264	GLU
1	B	265	VAL
1	B	260	SER
1	A	486	GLU

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	305/358 (85%)	299 (98%)	6 (2%)	55	69
1	B	297/358 (83%)	290 (98%)	7 (2%)	49	62
All	All	602/716 (84%)	589 (98%)	13 (2%)	52	65

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	108	THR
1	A	168	SER
1	A	179	LEU
1	A	372	SER
1	A	377	LEU
1	A	487	ILE
1	B	241	SER
1	B	265	VAL
1	B	307	ARG
1	B	330	ARG
1	B	352	MET
1	B	376	ASP
1	B	485	VAL

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

Mol	Chain	Res	Type
1	A	177	GLN
1	B	177	GLN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

2 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
2	A8F	B	501	-	24,25,25	2.02	2 (8%)	26,35,35	2.28	8 (30%)
2	A8F	A	501	-	24,25,25	2.12	3 (12%)	26,35,35	2.04	9 (34%)

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
2	A8F	B	501	-	-	1/8/20/20	0/3/3/3
2	A8F	A	501	-	-	4/8/20/20	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	A8F	C5-N7	-9.52	1.33	1.46
2	B	501	A8F	C5-N7	-8.94	1.34	1.46
2	B	501	A8F	C2-CL1	2.50	1.79	1.74
2	A	501	A8F	C8-N7	-2.05	1.32	1.36
2	A	501	A8F	C11-N7	-2.03	1.32	1.36

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	A8F	C23-C11-C10	-6.58	116.67	128.72
2	A	501	A8F	C23-C11-C10	-5.86	117.98	128.72
2	B	501	A8F	C22-C8-N7	4.18	127.63	122.37
2	B	501	A8F	C6-C5-C4	-3.99	115.41	121.33
2	A	501	A8F	C6-C5-C4	-3.61	115.99	121.33
2	B	501	A8F	O21-C12-C13	3.43	125.13	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	A8F	C22-C8-N7	3.01	126.17	122.37
2	B	501	A8F	C13-C12-C9	-2.99	112.93	118.20
2	A	501	A8F	C6-C5-N7	2.93	123.29	119.19
2	B	501	A8F	C3-C4-C5	2.76	123.08	119.07
2	A	501	A8F	C1-C6-C5	2.61	122.87	119.07
2	B	501	A8F	C1-C6-C5	2.55	122.78	119.07
2	A	501	A8F	C3-C4-C5	2.49	122.69	119.07
2	B	501	A8F	C6-C5-N7	2.44	122.60	119.19
2	A	501	A8F	C16-C15-N14	2.43	115.22	111.33
2	A	501	A8F	O21-C12-C13	2.37	123.64	120.29
2	A	501	A8F	C19-N14-C15	2.03	113.40	108.83

There are no chirality outliers.

All (5) torsion outliers are listed below:

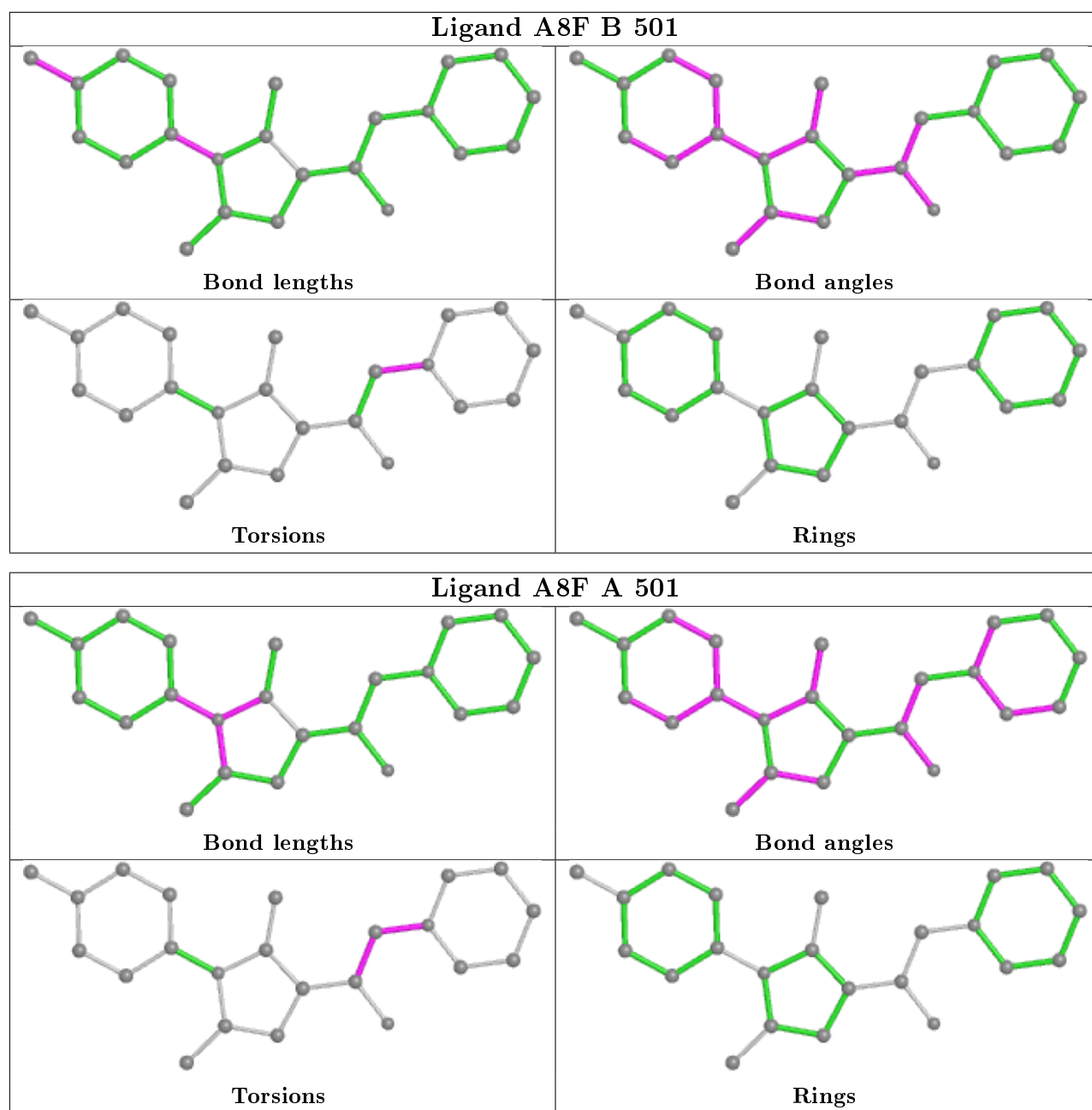
Mol	Chain	Res	Type	Atoms
2	A	501	A8F	O21-C12-C13-N14
2	A	501	A8F	C9-C12-C13-N14
2	A	501	A8F	C12-C13-N14-C15
2	A	501	A8F	C12-C13-N14-C19
2	B	501	A8F	C12-C13-N14-C19

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	A8F	1	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	341/399 (85%)	0.08	24 (7%) 16 15	11, 32, 77, 97	0
1	B	332/399 (83%)	0.72	57 (17%) 1 1	31, 53, 118, 160	0
All	All	673/798 (84%)	0.39	81 (12%) 4 3	11, 45, 96, 160	0

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	309	ALA	7.4
1	B	485	VAL	6.9
1	B	401	TYR	6.4
1	B	306	GLN	6.2
1	B	310	LEU	5.9
1	B	301	GLN	5.8
1	B	298	ILE	5.6
1	A	487	ILE	5.4
1	B	343	VAL	5.2
1	A	340	ASN	5.0
1	B	257	CYS	4.9
1	B	262	GLU	4.7
1	A	380	LYS	4.7
1	B	146	MET	4.6
1	A	145	GLU	4.4
1	A	146	MET	4.3
1	B	312	ILE	4.2
1	B	311	TYR	4.2
1	B	376	ASP	4.0
1	B	220	ASP	4.0
1	B	145	GLU	4.0
1	A	378	GLU	3.9
1	A	400	LYS	3.8
1	B	300	LYS	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	486	GLU	3.7
1	B	305	LEU	3.7
1	B	299	THR	3.7
1	A	332	PHE	3.6
1	A	343	VAL	3.6
1	B	304	THR	3.5
1	A	485	VAL	3.5
1	B	259	GLU	3.5
1	B	400	LYS	3.5
1	A	377	LEU	3.4
1	B	303	PRO	3.4
1	B	331	PHE	3.4
1	B	240	LYS	3.3
1	B	173	ILE	3.3
1	A	262	GLU	3.2
1	B	260	SER	3.1
1	B	265	VAL	3.1
1	B	191	GLU	3.0
1	B	263	GLU	2.9
1	B	258	THR	2.9
1	B	261	GLU	2.9
1	B	264	GLU	2.9
1	A	479	LEU	2.8
1	B	256	LYS	2.8
1	B	219	GLU	2.8
1	B	477	VAL	2.6
1	A	137	ALA	2.6
1	B	344	LEU	2.6
1	B	102	GLU	2.5
1	A	379	ASP	2.5
1	A	102	GLU	2.4
1	A	123	ILE	2.4
1	B	285	TYR	2.4
1	B	297	GLU	2.3
1	B	203	CYS	2.3
1	B	278	PHE	2.3
1	B	174	ILE	2.3
1	B	175	LEU	2.3
1	B	284	LYS	2.3
1	B	193	GLY	2.3
1	B	115	TYR	2.2
1	A	220	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	424	LEU	2.2
1	B	190	GLY	2.2
1	A	143	SER	2.2
1	A	219	GLU	2.2
1	B	194	GLN	2.2
1	B	192	GLN	2.2
1	A	401	TYR	2.1
1	B	216	GLU	2.1
1	A	477	VAL	2.1
1	B	120	VAL	2.1
1	B	165	LYS	2.1
1	A	341	ALA	2.0
1	B	200	ALA	2.0
1	B	167	SER	2.0
1	B	281	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 carbohydrates in this entry.

6.4 Ligands [i](#)

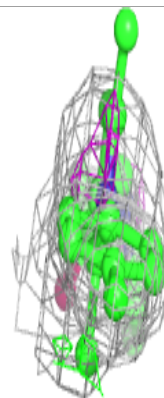
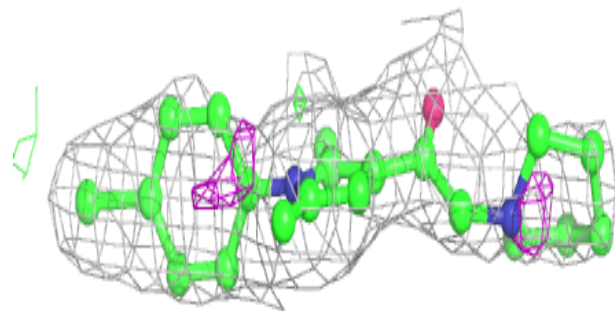
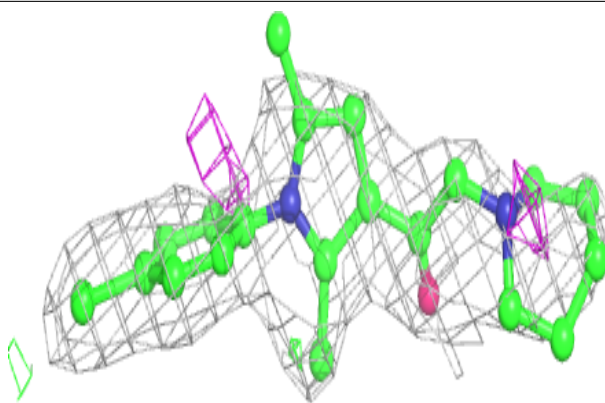
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	A8F	B	501	23/23	0.84	0.22	63,70,81,82	0
2	A8F	A	501	23/23	0.95	0.12	21,32,42,43	0

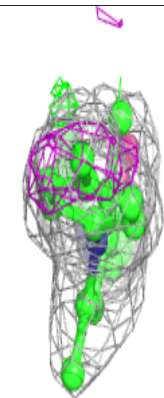
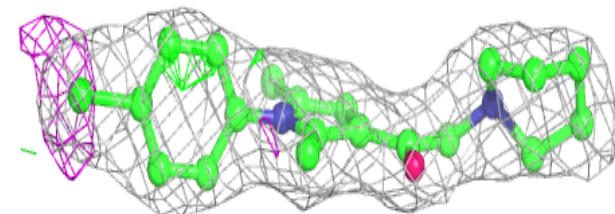
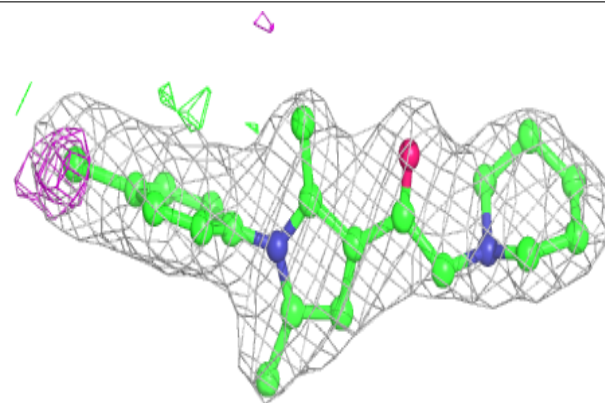
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around A8F B 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 A8F 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)



6.5 Other polymers

There are no such residues in this entry.