



Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 04:49 am BST

PDB ID : 6IIM
Title : USP14 catalytic domain with IU1-206
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Deposited on : 2018-10-07
Resolution : 2.21 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

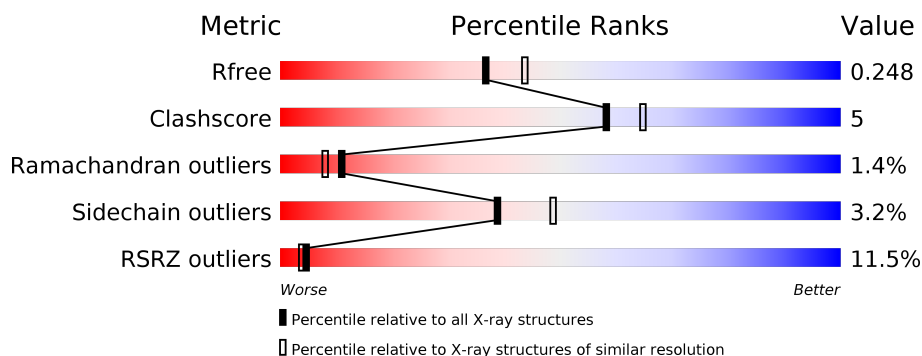
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.21 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	5912 (2.24-2.20)
Clashscore	141614	6646 (2.24-2.20)
Ramachandran outliers	138981	6543 (2.24-2.20)
Sidechain outliers	138945	6544 (2.24-2.20)
RSRZ outliers	127900	5797 (2.24-2.20)

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	<div> <div>4%</div> <div>73%</div> <div>11%</div> <div>15%</div> </div>
1	B	399	<div> <div>15%</div> <div>70%</div> <div>11%</div> <div>17%</div> </div>

2 Entry composition [i](#)

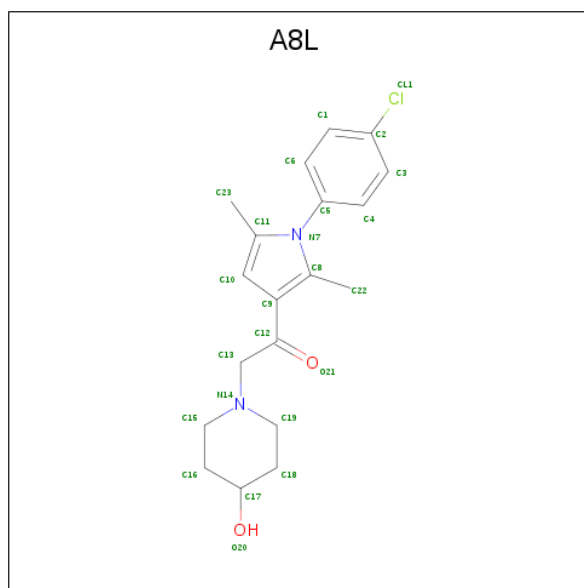
There are 3 unique types of molecules in this entry. The entry contains 5712 atoms, of which 0 are hydrogens and 0 are deuteriums.

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
1	A	338	Total	C	N	O	S	0	0	0
			2725	1737	453	516	19			
1	B	331	Total	C	N	O	S	0	0	0
			2665	1698	444	504	19			

- Molecule 2 is 1-[1-(4-chlorophenyl)-2,5-dimethyl-1H-pyrrol-3-yl]-2-(4-hydroxypiperidin-1-yl)ethan-1-one (three-letter code: A8L) (formula: C₁₉H₂₃ClN₂O₂).

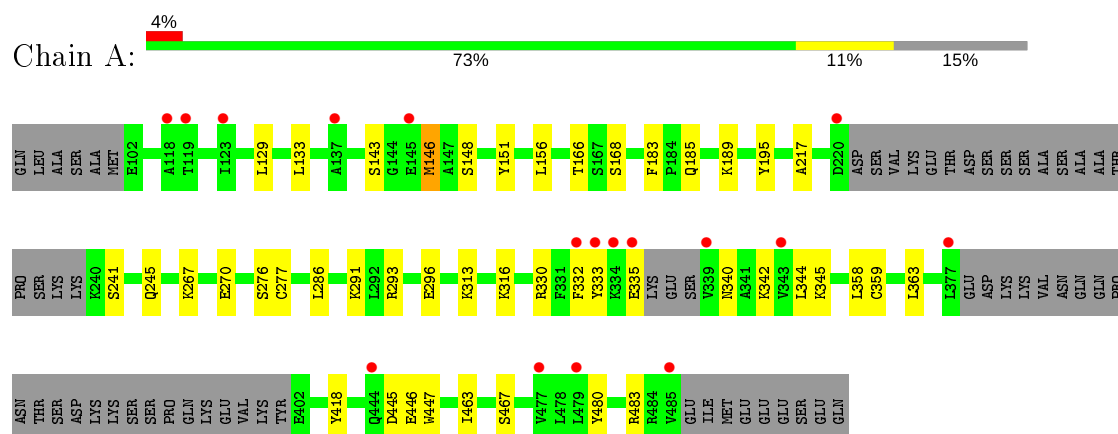


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	192	Total 192	O 192	0	0
3	B	82	Total 82	O 82	0	0

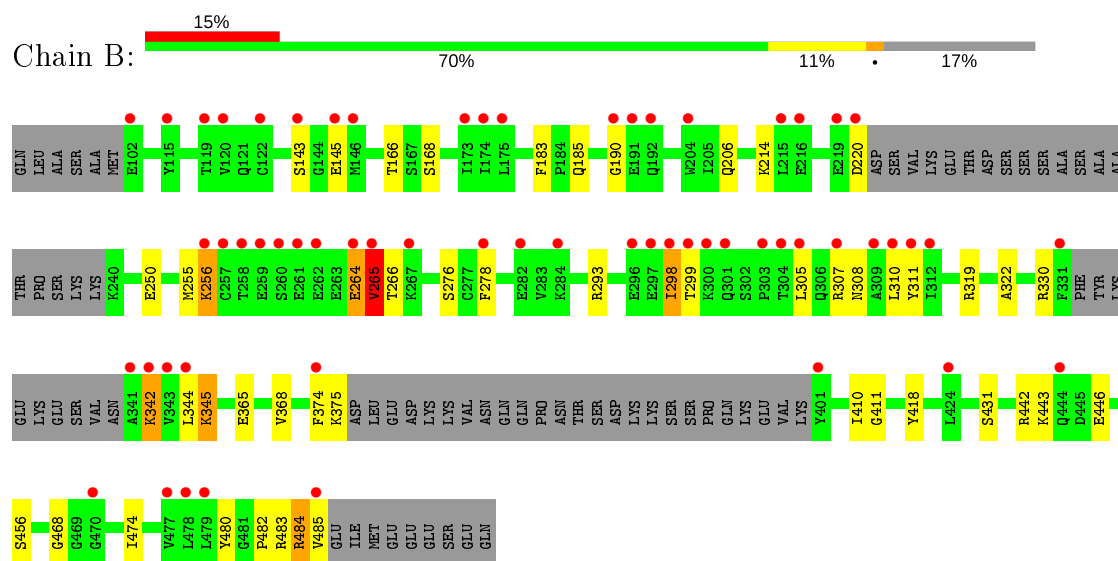
3 Residue-property plots [i](#)

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	58.31Å 81.19Å 108.51Å 90.00° 94.74° 90.00°	Depositor
Resolution (Å)	30.00 – 2.21 29.64 – 2.21	Depositor EDS
% Data completeness (in resolution range)	95.9 (30.00-2.21) 96.1 (29.64-2.21)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.53 (at 2.20Å)	Xtriage
Refinement program	PHENIX 1.8_1069	Depositor
R, R_{free}	0.206 , 0.247 0.208 , 0.248	Depositor DCC
R_{free} test set	2478 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	41.1	Xtriage
Anisotropy	0.716	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 49.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5712	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.32% 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: A8L

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	0.46	0/2776	0.57	0/3737
1	B	0.35	0/2715	0.52	0/3655
All	All	0.41	0/5491	0.55	0/7392

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	2725	0	2712	26	0
1	B	2665	0	2654	26	0
2	A	24	0	0	1	0
2	B	24	0	0	0	0
3	A	192	0	0	11	3
3	B	82	0	0	4	0
All	All	5712	0	5366	52	3

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 5.

All (52) 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:151:TYR:OH	3:A:601:HOH:O	1.89	0.89
1:B:456:SER:OG	3:B:601:HOH:O	1.94	0.83
1:A:359:CYS:O	3:A:602:HOH:O	1.99	0.81
1:A:316:LYS:NZ	3:A:606:HOH:O	2.09	0.80
1:A:446:GLU:OE1	3:A:603:HOH:O	2.02	0.77
1:A:446:GLU:OE2	3:A:605:HOH:O	2.06	0.73
1:A:467:SER:O	3:A:604:HOH:O	2.06	0.73
1:B:484:ARG:NH2	3:B:604:HOH:O	2.23	0.72
1:A:267:LYS:NZ	3:A:609:HOH:O	2.23	0.69
1:B:330:ARG:NH1	1:B:345:LYS:O	2.25	0.67
1:A:166:THR:HG22	1:A:168:SER:H	1.62	0.65
1:B:443:LYS:HB2	1:B:446:GLU:HB3	1.80	0.62
1:A:330:ARG:NH2	1:A:345:LYS:O	2.33	0.62
1:A:296:GLU:OE1	3:A:607:HOH:O	2.16	0.60
1:B:166:THR:HG22	1:B:168:SER:H	1.67	0.59
1:B:468:GLY:HA2	1:B:474:ILE:HG12	1.85	0.59
1:A:483:ARG:NH2	3:A:622:HOH:O	2.38	0.56
1:A:148:SER:HA	1:A:151:TYR:CZ	2.43	0.54
1:B:278:PHE:HB2	1:B:293:ARG:HH11	1.73	0.54
1:A:291:LYS:HG2	1:A:358:LEU:HD21	1.90	0.54
1:B:418:TYR:HB3	1:B:480:TYR:HB3	1.91	0.52
1:A:133:LEU:HD11	1:A:156:LEU:HD23	1.92	0.52
1:A:447:TRP:CD2	1:A:463:ILE:HG13	2.47	0.50
1:B:442:ARG:HG2	1:B:443:LYS:HD2	1.92	0.50
1:A:330:ARG:NH1	3:A:604:HOH:O	2.18	0.49
1:A:270:GLU:OE2	1:A:313:LYS:NZ	2.34	0.49
1:B:183:PHE:CZ	1:B:206:GLN:HB3	2.49	0.48
1:A:183:PHE:HB3	1:A:185:GLN:NE2	2.29	0.47
1:B:250:GLU:HB3	1:B:319:ARG:HB3	1.96	0.47
1:B:264:GLU:O	3:B:603:HOH:O	2.21	0.47
1:B:183:PHE:HB3	1:B:185:GLN:NE2	2.31	0.46
1:B:342:LYS:HB2	1:B:431:SER:HB3	1.98	0.45
1:B:307:ARG:HA	1:B:308:ASN:HA	1.49	0.44
1:A:277:CYS:SG	1:A:286:LEU:HD12	2.57	0.44
1:B:299:THR:OG1	1:B:308:ASN:ND2	2.51	0.44
1:A:189:LYS:HZ2	1:A:195:TYR:HE1	1.66	0.44
1:B:410:ILE:HA	1:B:411:GLY:HA2	1.77	0.44
1:B:276:SER:HB2	1:B:293:ARG:HG2	2.00	0.43
1:A:217:ALA:HB1	1:A:245:GLN:NE2	2.34	0.43
1:B:256:LYS:HE3	1:B:265:VAL:HG12	2.01	0.43
1:A:418:TYR:HB3	1:A:480:TYR:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ARG:HG3	1:B:308:ASN:OD1	2.20	0.42
1:A:359:CYS:SG	1:A:363:LEU:HD23	2.60	0.41
1:B:255:MET:HB3	1:B:266:THR:HG22	2.02	0.41
1:A:276:SER:HB2	1:A:293:ARG:HG2	2.02	0.41
1:B:374:PHE:CE2	1:B:483:ARG:HD3	2.56	0.41
1:A:146:MET:HA	3:A:709:HOH:O	2.20	0.41
1:B:322:ALA:O	1:B:482:PRO:HD3	2.21	0.41
1:B:375:LYS:HE3	3:B:668:HOH:O	2.22	0.40
1:A:342:LYS:HE3	2:A:501:A8L:CL1	2.58	0.40
1:B:214:LYS:HA	1:B:214:LYS:HD2	1.94	0.40
1:B:365:GLU:HA	1:B:368:VAL:HG23	2.04	0.40

All (3) 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:734:HOH:O	3:A:750:HOH:O[2_555]	1.88	0.32
3:A:703:HOH:O	3:A:782:HOH:O[2_555]	1.90	0.30
3:A:708:HOH:O	3:A:765:HOH:O[2_545]	2.00	0.20

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	330/399 (83%)	312 (94%)	16 (5%)	2 (1%)	25	25
1	B	323/399 (81%)	291 (90%)	25 (8%)	7 (2%)	6	3
All	All	653/798 (82%)	603 (92%)	41 (6%)	9 (1%)	11	8

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	265	VAL
1	B	305	LEU
1	B	342	LYS
1	A	143	SER
1	A	332	PHE
1	B	143	SER
1	B	311	TYR
1	B	190	GLY
1	B	298	ILE

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	302/358 (84%)	294 (97%)	8 (3%)	46	57
1	B	295/358 (82%)	284 (96%)	11 (4%)	34	42
All	All	597/716 (83%)	578 (97%)	19 (3%)	39	49

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	129	LEU
1	A	146	MET
1	A	241	SER
1	A	333	TYR
1	A	335	GLU
1	A	340	ASN
1	A	344	LEU
1	A	445	ASP
1	B	145	GLU
1	B	220	ASP
1	B	256	LYS
1	B	264	GLU
1	B	265	VAL
1	B	298	ILE
1	B	310	LEU

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Mol	Chain	Res	Type
1	B	344	LEU
1	B	345	LYS
1	B	484	ARG
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	306	GLN
1	A	340	ASN

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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	A8L	A	501	-	25,26,26	2.00	2 (8%)	28,37,37	2.06	8 (28%)
2	A8L	B	501	-	25,26,26	1.90	2 (8%)	28,37,37	2.11	7 (25%)

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	A8L	A	501	-	-	3/8/22/22	1/3/3/3
2	A8L	B	501	-	-	0/8/22/22	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	A8L	C5-N7	-8.99	1.33	1.46
2	B	501	A8L	C5-N7	-8.66	1.34	1.46
2	B	501	A8L	C2-CL1	2.21	1.79	1.74
2	A	501	A8L	C11-N7	-2.02	1.32	1.36

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	A8L	C23-C11-C10	-6.57	116.69	128.72
2	A	501	A8L	C23-C11-C10	-5.29	119.03	128.72
2	B	501	A8L	C6-C5-C4	-4.23	115.07	121.33
2	B	501	A8L	C22-C8-N7	3.93	127.33	122.37
2	A	501	A8L	C22-C8-N7	3.79	127.15	122.37
2	A	501	A8L	C6-C5-C4	-3.69	115.86	121.33
2	A	501	A8L	C6-C5-N7	3.20	123.67	119.19
2	A	501	A8L	C13-N14-C15	3.07	115.85	111.09
2	B	501	A8L	C3-C4-C5	2.95	123.36	119.07
2	A	501	A8L	C3-C4-C5	2.80	123.14	119.07
2	A	501	A8L	C13-N14-C19	-2.77	106.80	111.09
2	B	501	A8L	C1-C6-C5	2.73	123.04	119.07
2	B	501	A8L	C6-C5-N7	2.35	122.48	119.19
2	B	501	A8L	C4-C5-N7	2.33	122.45	119.19
2	A	501	A8L	C1-C6-C5	2.25	122.35	119.07

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	A8L	C9-C12-C13-N14
2	A	501	A8L	O21-C12-C13-N14
2	A	501	A8L	C12-C13-N14-C15

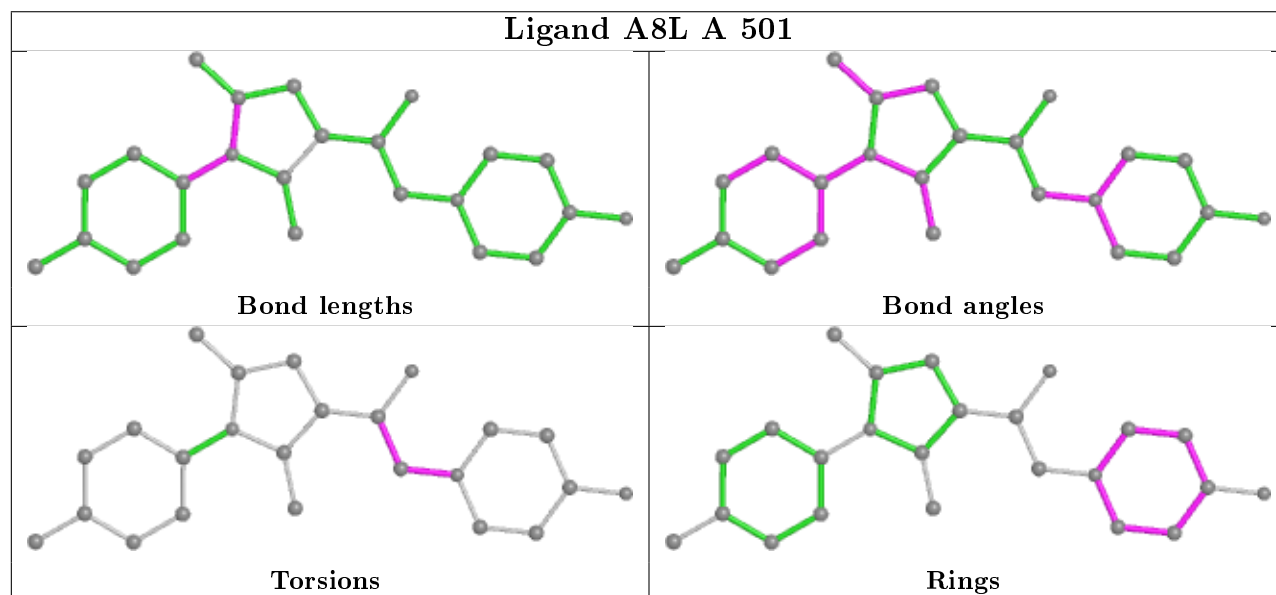
All (1) ring outliers are listed below:

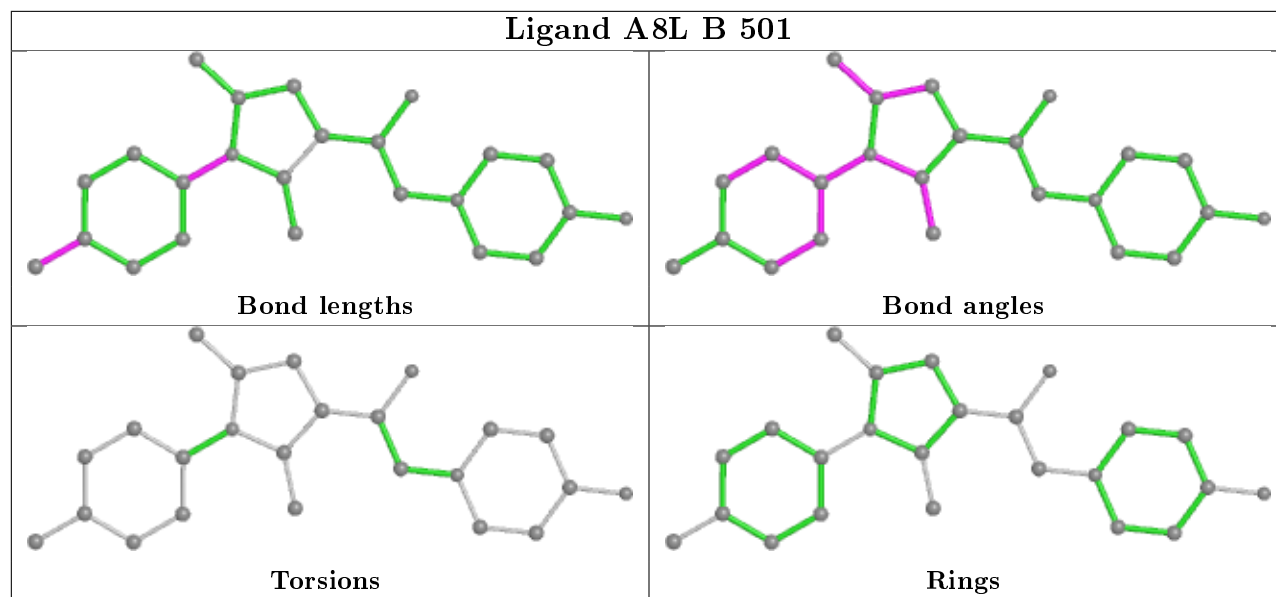
Mol	Chain	Res	Type	Atoms
2	A	501	A8L	C15-C16-C17-C18-C19-N14

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	A8L	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	338/399 (84%)	0.07	17 (5%) 28 27	17, 36, 78, 107	0
1	B	331/399 (82%)	0.91	60 (18%) 1 1	39, 61, 127, 168	0
All	All	669/798 (83%)	0.48	77 (11%) 4 4	17, 52, 103, 168	0

All (77) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	298	ILE	8.6
1	A	333	TYR	8.0
1	B	257	CYS	7.6
1	B	341	ALA	7.5
1	B	311	TYR	7.1
1	B	312	ILE	6.9
1	B	485	VAL	6.7
1	B	309	ALA	6.3
1	B	310	LEU	6.0
1	B	401	TYR	5.7
1	B	307	ARG	5.3
1	B	299	THR	4.7
1	B	259	GLU	4.7
1	B	304	THR	4.6
1	B	258	THR	4.5
1	B	220	ASP	4.3
1	B	264	GLU	4.3
1	B	190	GLY	4.2
1	B	146	MET	4.0
1	B	278	PHE	3.9
1	B	444	GLN	3.8
1	A	334	LYS	3.8
1	B	343	VAL	3.8
1	A	335	GLU	3.8

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Mol	Chain	Res	Type	RSRZ
1	B	265	VAL	3.7
1	B	344	LEU	3.7
1	A	485	VAL	3.6
1	B	300	LYS	3.6
1	B	303	PRO	3.5
1	A	477	VAL	3.4
1	B	191	GLU	3.4
1	B	305	LEU	3.4
1	B	297	GLU	3.3
1	B	174	ILE	3.3
1	B	331	PHE	3.2
1	A	145	GLU	3.2
1	B	477	VAL	3.2
1	B	256	LYS	3.2
1	B	284	LYS	3.1
1	B	102	GLU	3.1
1	B	301	GLN	3.1
1	B	215	LEU	3.0
1	A	377	LEU	3.0
1	B	424	LEU	2.9
1	B	374	PHE	2.8
1	B	296	GLU	2.8
1	A	343	VAL	2.7
1	B	204	TRP	2.7
1	B	216	GLU	2.7
1	B	260	SER	2.6
1	B	282	GLU	2.6
1	B	261	GLU	2.6
1	B	192	GLN	2.6
1	B	175	LEU	2.6
1	B	122	CYS	2.5
1	A	123	ILE	2.5
1	B	120	VAL	2.5
1	B	342	LYS	2.5
1	B	262	GLU	2.5
1	B	173	ILE	2.5
1	B	478	LEU	2.4
1	B	479	LEU	2.4
1	B	119	THR	2.4
1	A	339	VAL	2.3
1	B	145	GLU	2.2
1	B	143	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	444	GLN	2.2
1	B	267	LYS	2.1
1	A	332	PHE	2.1
1	A	137	ALA	2.1
1	B	115	TYR	2.1
1	A	479	LEU	2.1
1	A	118	ALA	2.0
1	B	470	GLY	2.0
1	A	220	ASP	2.0
1	B	219	GLU	2.0
1	A	119	THR	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](#)

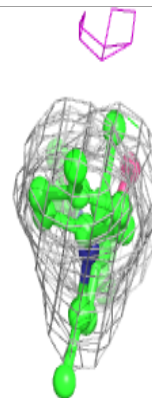
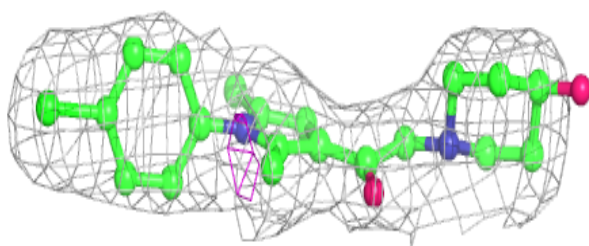
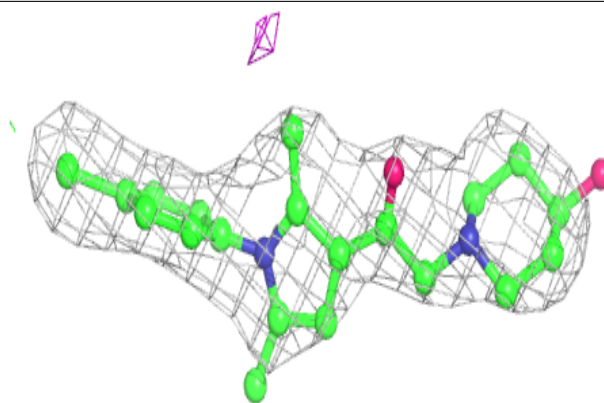
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	A8L	B	501	24/24	0.89	0.17	43,63,76,84	0
2	A8L	A	501	24/24	0.94	0.11	26,38,42,44	0

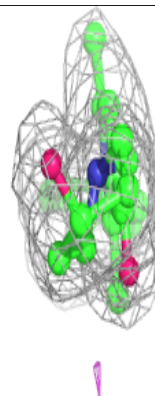
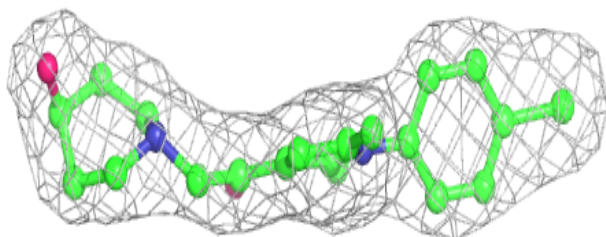
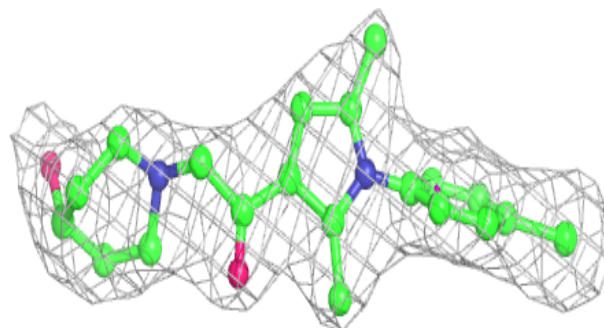
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around A8L 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 A8L 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 [i](#)

There are no such residues in this entry.