



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 04:53 am BST

PDB ID : 5V3O
Title : Cereblon in complex with DDB1 and CC-220
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Deposited on : 2017-03-07
Resolution : 3.20 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

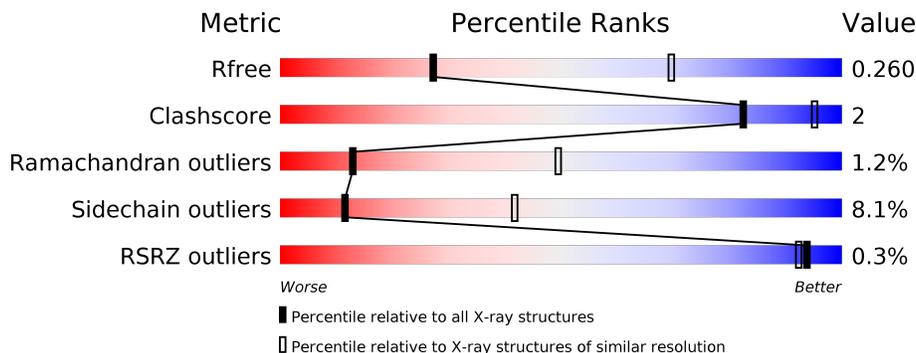
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)

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	1140	
2	C	406	

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	ZN	C	502	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 11175 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 DNA damage-binding protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1087	8273	5266	1386	1575	46	0	0	0

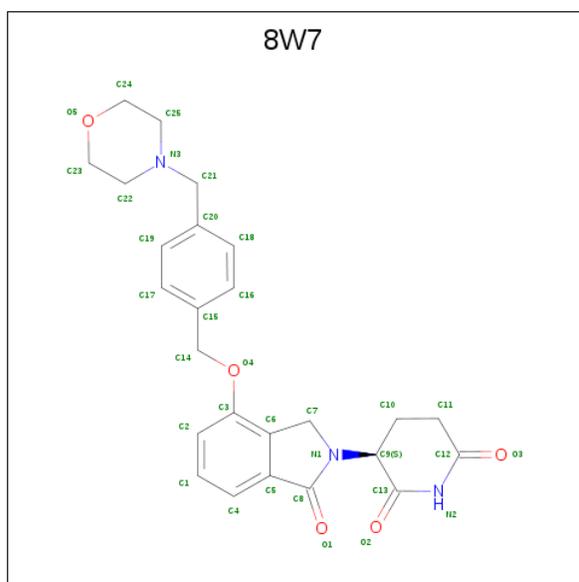
- Molecule 2 is a protein called Protein cereblon.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	363	2868	1839	487	519	23	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	37	GLY	-	expression tag	UNP Q96SW2
C	38	SER	-	expression tag	UNP Q96SW2
C	39	MET	-	expression tag	UNP Q96SW2

- Molecule 3 is (3S)-3-[4-({4-[(morpholin-4-yl)methyl]phenyl}methoxy)-1-oxo-1,3-dihydro-2H-isoindol-2-yl]piperidine-2,6-dione (three-letter code: 8W7) (formula: C₂₅H₂₇N₃O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	C	1	Total	C	N	O	0	0
			33	25	3	5		

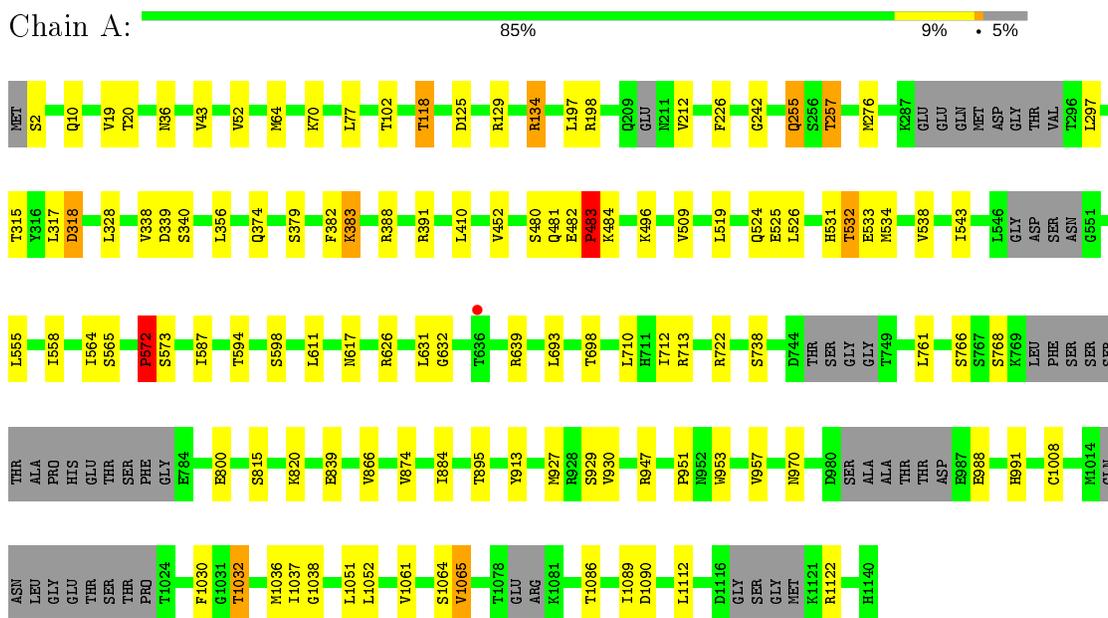
- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	1	Total	Zn	0	0
			1	1		

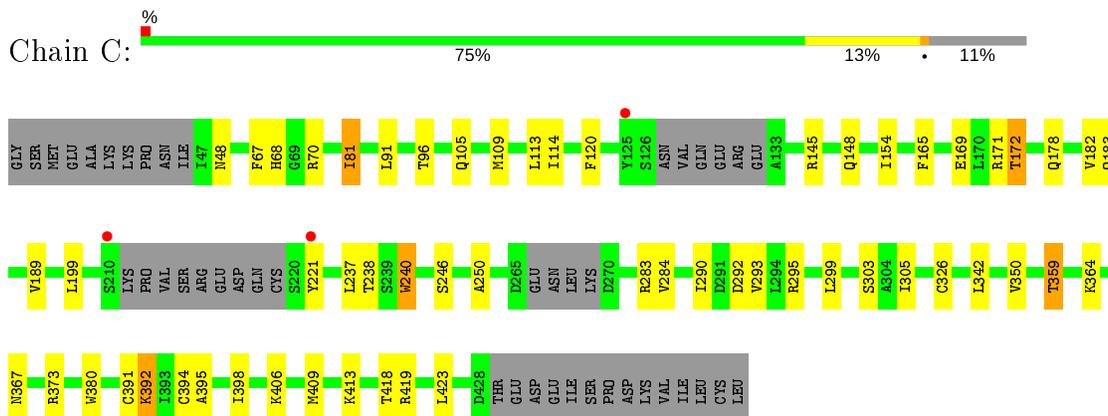
3 Residue-property plots

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: DNA damage-binding protein 1



- Molecule 2: Protein cereblon



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	111.03Å 126.89Å 172.49Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.01 – 3.20 48.78 – 3.20	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.01-3.20) 99.9 (48.78-3.20)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.84 (at 3.19Å)	Xtrriage
Refinement program	REFMAC 5.8.0107	Depositor
R, R_{free}	0.204 , 0.267 0.204 , 0.260	Depositor DCC
R_{free} test set	2023 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	79.3	Xtrriage
Anisotropy	0.139	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 42.3	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	0.92	EDS
Total number of atoms	11175	wwPDB-VP
Average B, all atoms (Å ²)	98.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.58% 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: 8W7, ZN

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	0.51	0/8421	0.76	2/11439 (0.0%)
2	C	0.50	0/2937	0.73	0/3992
All	All	0.50	0/11358	0.76	2/15431 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	483	PRO	CA-N-CD	-8.20	100.02	111.50
1	A	388	ARG	NE-CZ-NH1	6.07	123.33	120.30

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	8273	0	8033	37	0
2	C	2868	0	2818	21	0
3	C	33	0	0	0	0
4	C	1	0	0	2	0
All	All	11175	0	10851	54	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 2.

All (54) 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)
2:C:391:CYS:HG	4:C:502:ZN:ZN	0.77	0.89
2:C:326:CYS:SG	2:C:394:CYS:HB3	2.18	0.82
1:A:482:GLU:OE2	1:A:483:PRO:HD2	1.84	0.77
2:C:391:CYS:SG	4:C:502:ZN:ZN	1.79	0.70
1:A:572:PRO:HD2	1:A:573:SER:H	1.54	0.70
1:A:572:PRO:CD	1:A:573:SER:H	2.05	0.70
1:A:482:GLU:HG3	1:A:483:PRO:HD2	1.82	0.61
2:C:406:LYS:HE3	2:C:409:MET:HE2	1.84	0.60
2:C:199:LEU:CD1	2:C:237:LEU:HD11	2.37	0.55
1:A:382:PHE:O	1:A:383:LYS:CB	2.57	0.53
1:A:481:GLN:HA	1:A:481:GLN:OE1	2.07	0.53
1:A:356:LEU:HD21	1:A:712:ILE:HD13	1.89	0.53
1:A:1030:PHE:CZ	1:A:1038:GLY:HA3	2.45	0.52
1:A:1032:THR:HG21	1:A:1036:MET:HB3	1.91	0.52
1:A:572:PRO:CD	1:A:573:SER:N	2.71	0.52
1:A:866:VAL:CG1	1:A:884:ILE:HG21	2.39	0.52
1:A:953:TRP:HB2	1:A:970:ASN:HB2	1.92	0.52
2:C:250:ALA:HB2	2:C:305:ILE:HD11	1.92	0.51
1:A:338:VAL:O	1:A:340:SER:N	2.43	0.51
1:A:328:LEU:HD21	2:C:237:LEU:HD21	1.92	0.51
1:A:482:GLU:CG	1:A:483:PRO:HD2	2.41	0.50
1:A:102:THR:OG1	1:A:1065:VAL:O	2.25	0.50
2:C:326:CYS:SG	2:C:394:CYS:CB	2.92	0.49
1:A:382:PHE:O	1:A:383:LYS:HB3	2.13	0.48
1:A:356:LEU:O	1:A:379:SER:HB3	2.14	0.47
2:C:165:PHE:HB2	2:C:182:VAL:HG13	1.95	0.47
2:C:81:ILE:HG22	2:C:120:PHE:HA	1.96	0.47
1:A:20:THR:HG23	1:A:315:THR:HG21	1.96	0.47
1:A:1051:LEU:HB2	1:A:1089:ILE:HD13	1.96	0.47
1:A:509:VAL:HG21	1:A:543:ILE:HD13	1.96	0.47
1:A:374:GLN:NE2	1:A:391:ARG:CB	2.77	0.47
1:A:913:TYR:CE1	2:C:240:TRP:CH2	3.03	0.47
2:C:394:CYS:O	2:C:395:ALA:HB3	2.15	0.46
2:C:199:LEU:HD13	2:C:237:LEU:HD11	1.97	0.46
2:C:290:ILE:O	2:C:419:ARG:NH2	2.46	0.46
2:C:172:THR:HA	2:C:178:GLN:HA	1.99	0.45
2:C:67:PHE:CZ	2:C:114:ILE:HG23	2.52	0.44
1:A:722:ARG:NH1	2:C:238:THR:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:THR:OG1	1:A:533:GLU:N	2.51	0.43
1:A:134:ARG:HD2	1:A:134:ARG:C	2.38	0.43
1:A:257:THR:HB	1:A:276:MET:CE	2.49	0.43
1:A:10:GLN:HB3	1:A:1037:ILE:HB	1.99	0.43
2:C:359:THR:HG21	2:C:380:TRP:CZ3	2.54	0.42
1:A:374:GLN:HE21	1:A:391:ARG:CB	2.32	0.42
1:A:710:LEU:HA	1:A:710:LEU:HD23	1.87	0.42
1:A:913:TYR:CE1	2:C:240:TRP:HH2	2.37	0.42
1:A:317:LEU:O	1:A:318:ASP:HB2	2.20	0.41
2:C:367:ASN:HA	2:C:392:LYS:HE3	2.02	0.41
1:A:118:THR:HB	1:A:134:ARG:HH22	1.85	0.41
1:A:64:MET:HG3	1:A:77:LEU:HD11	2.02	0.41
1:A:480:SER:OG	1:A:484:LYS:HA	2.20	0.41
1:A:572:PRO:CG	1:A:573:SER:N	2.83	0.40
1:A:43:VAL:HG23	1:A:52:VAL:HG21	2.02	0.40
2:C:398:ILE:O	2:C:418:THR:HG22	2.22	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	1067/1140 (94%)	992 (93%)	60 (6%)	15 (1%)	11 46
2	C	355/406 (87%)	330 (93%)	23 (6%)	2 (1%)	25 64
All	All	1422/1546 (92%)	1322 (93%)	83 (6%)	17 (1%)	13 49

All (17) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	483	PRO
1	A	572	PRO

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Mol	Chain	Res	Type
1	A	255	GLN
1	A	339	ASP
1	A	383	LYS
1	A	1090	ASP
1	A	761	LEU
2	C	68	HIS
2	C	392	LYS
1	A	36	ASN
1	A	297	LEU
1	A	524	GLN
1	A	632	GLY
1	A	768	SER
1	A	951	PRO
1	A	242	GLY
1	A	1065	VAL

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	883/999 (88%)	819 (93%)	64 (7%)	14	47
2	C	312/368 (85%)	279 (89%)	33 (11%)	6	27
All	All	1195/1367 (87%)	1098 (92%)	97 (8%)	11	42

All (97) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	SER
1	A	19	VAL
1	A	70	LYS
1	A	118	THR
1	A	125	ASP
1	A	129	ARG
1	A	134	ARG
1	A	197	LEU

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Mol	Chain	Res	Type
1	A	198	ARG
1	A	212	VAL
1	A	226	PHE
1	A	255	GLN
1	A	257	THR
1	A	318	ASP
1	A	410	LEU
1	A	452	VAL
1	A	483	PRO
1	A	496	LYS
1	A	519	LEU
1	A	525	GLU
1	A	526	LEU
1	A	531	HIS
1	A	532	THR
1	A	534	MET
1	A	538	VAL
1	A	555	LEU
1	A	558	ILE
1	A	564	ILE
1	A	565	SER
1	A	572	PRO
1	A	587	ILE
1	A	594	THR
1	A	598	SER
1	A	611	LEU
1	A	617	ASN
1	A	626	ARG
1	A	631	LEU
1	A	639	ARG
1	A	693	LEU
1	A	698	THR
1	A	713	ARG
1	A	738	SER
1	A	766	SER
1	A	800	GLU
1	A	815	SER
1	A	820	LYS
1	A	839	GLU
1	A	874	VAL
1	A	895	THR
1	A	927	MET

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Mol	Chain	Res	Type
1	A	929	SER
1	A	930	VAL
1	A	947	ARG
1	A	957	VAL
1	A	988	GLU
1	A	991	HIS
1	A	1008	CYS
1	A	1032	THR
1	A	1052	LEU
1	A	1061	VAL
1	A	1064	SER
1	A	1086	THR
1	A	1112	LEU
1	A	1122	ARG
2	C	48	ASN
2	C	70	ARG
2	C	81	ILE
2	C	91	LEU
2	C	96	THR
2	C	105	GLN
2	C	109	MET
2	C	113	LEU
2	C	145	ARG
2	C	148	GLN
2	C	154	ILE
2	C	169	GLU
2	C	171	ARG
2	C	172	THR
2	C	183	GLN
2	C	189	VAL
2	C	221	TYR
2	C	240	TRP
2	C	246	SER
2	C	283	ARG
2	C	284	VAL
2	C	292	ASP
2	C	293	VAL
2	C	295	ARG
2	C	299	LEU
2	C	303	SER
2	C	342	LEU
2	C	350	VAL

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Mol	Chain	Res	Type
2	C	359	THR
2	C	364	LYS
2	C	373	ARG
2	C	413	LYS
2	C	423	LEU

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

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](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	$\# Z > 2$
3	8W7	C	501	-	37,37,37	1.42	3 (8%)	50,52,52	2.25	13 (26%)

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	8W7	C	501	-	-	3/13/46/46	0/5/5/5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	501	8W7	C5-C8	-5.41	1.40	1.48
3	C	501	8W7	C14-C15	-4.59	1.39	1.50
3	C	501	8W7	C8-N1	-2.35	1.33	1.36

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	501	8W7	C5-C8-N1	8.77	111.62	106.44
3	C	501	8W7	C7-N1-C8	-6.02	110.64	113.12
3	C	501	8W7	O4-C14-C15	3.98	121.11	109.16
3	C	501	8W7	C10-C9-N1	-3.95	109.85	114.11
3	C	501	8W7	C12-N2-C13	-3.90	121.18	126.61
3	C	501	8W7	C5-C6-C3	3.77	122.11	120.19
3	C	501	8W7	C9-C13-N2	3.53	120.99	116.25
3	C	501	8W7	C11-C12-N2	3.37	120.44	116.65
3	C	501	8W7	O1-C8-C5	-2.34	124.14	128.68
3	C	501	8W7	C9-N1-C8	2.32	125.50	121.81
3	C	501	8W7	O4-C3-C6	2.22	118.91	115.71
3	C	501	8W7	C4-C5-C8	2.17	133.17	129.63
3	C	501	8W7	C10-C11-C12	-2.08	110.45	114.12

There are no chirality outliers.

All (3) torsion outliers are listed below:

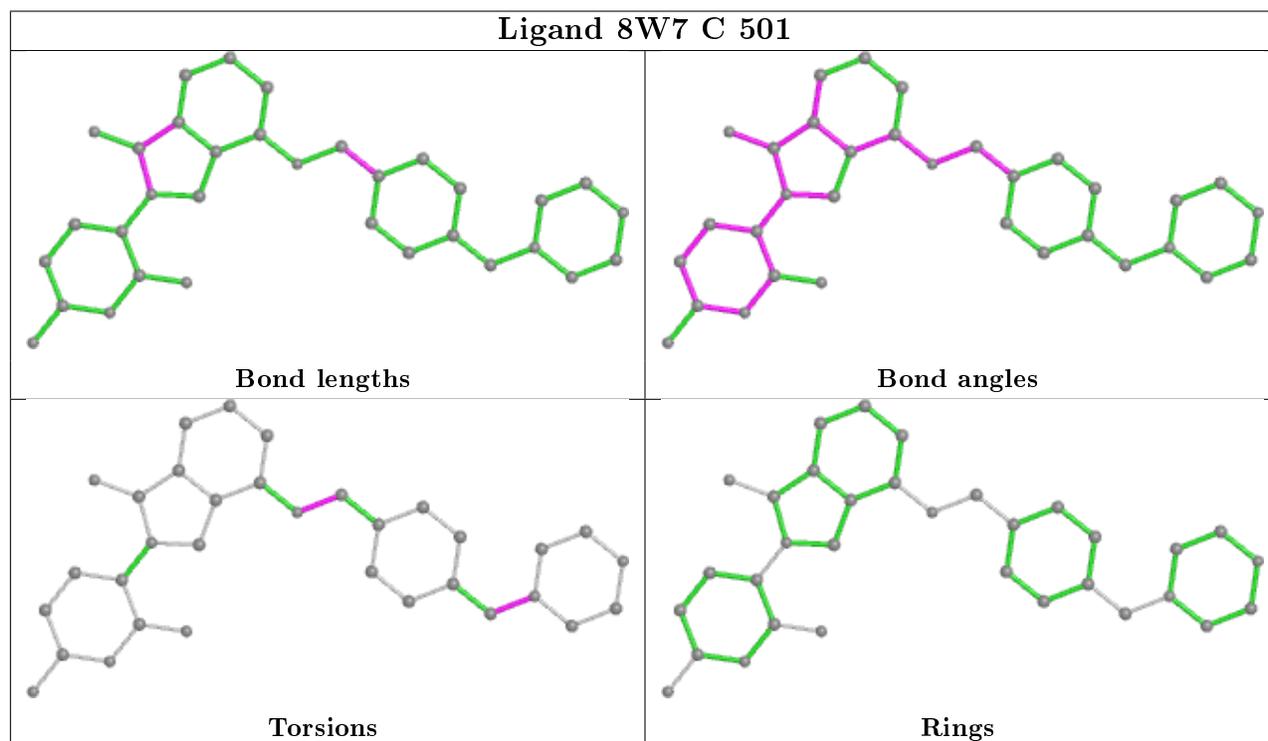
Mol	Chain	Res	Type	Atoms
3	C	501	8W7	C20-C21-N3-C25
3	C	501	8W7	C15-C14-O4-C3
3	C	501	8W7	C20-C21-N3-C22

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.



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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	1087/1140 (95%)	-0.28	1 (0%) 95 95	52, 95, 147, 172	2 (0%)
2	C	363/406 (89%)	-0.25	3 (0%) 86 78	64, 92, 147, 196	0
All	All	1450/1546 (93%)	-0.27	4 (0%) 94 92	52, 94, 147, 196	2 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	125	TYR	2.6
1	A	636	THR	2.6
2	C	221	TYR	2.1
2	C	210	SER	2.1

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.

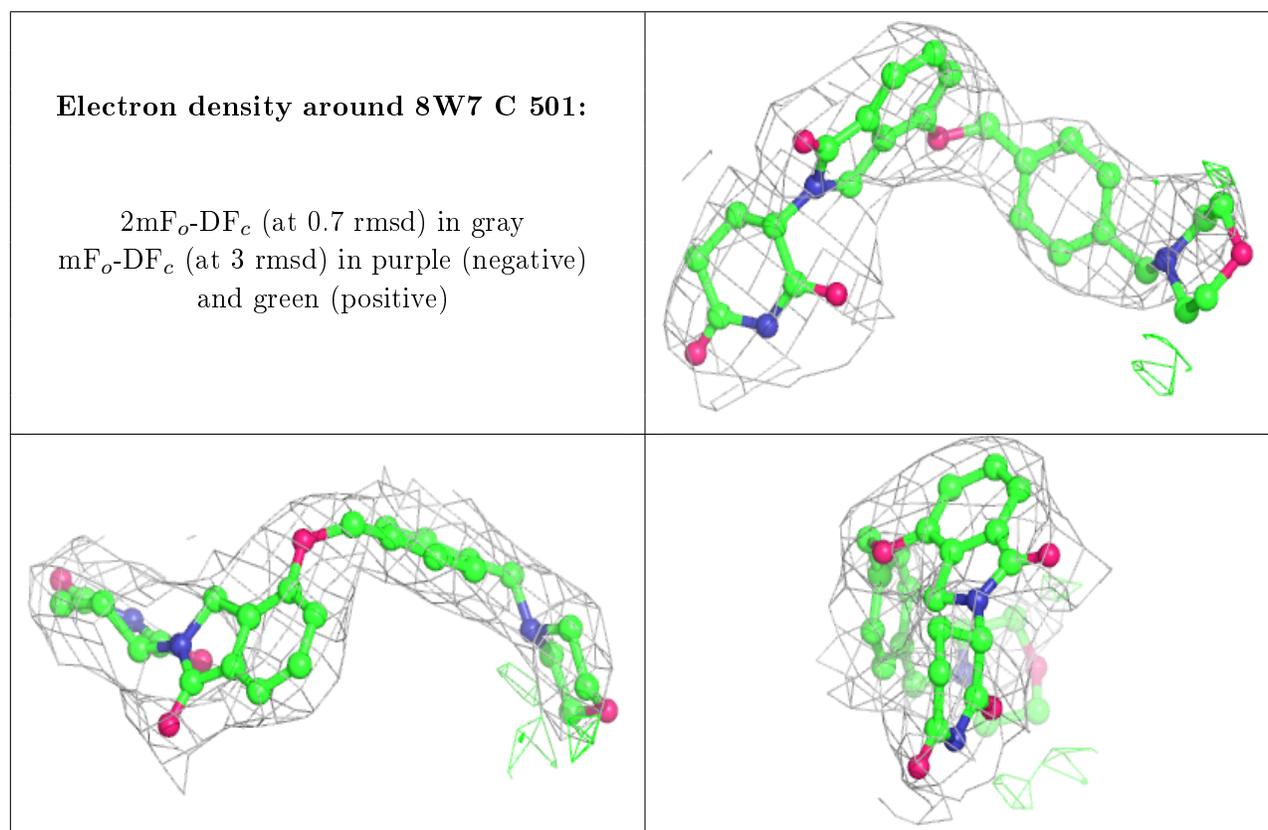
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	8W7	C	501	33/33	0.94	0.21	75,89,162,167	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	ZN	C	502	1/1	0.97	0.11	104,104,104,104	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.



6.5 Other polymers [i](#)

There are no such residues in this entry.