



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 09:06 AM UTC

PDB ID : 7VVP / pdb_00007vvp
Title : Crystal structure of SARS-Cov-2 main protease in complex with PF07304814
Authors : Zhou, X.L.; Zhong, F.L.; Lin, C.; Zeng, P.; Zhang, J.; Li, J.
Deposited on : 2021-11-07
Resolution : 1.97 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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

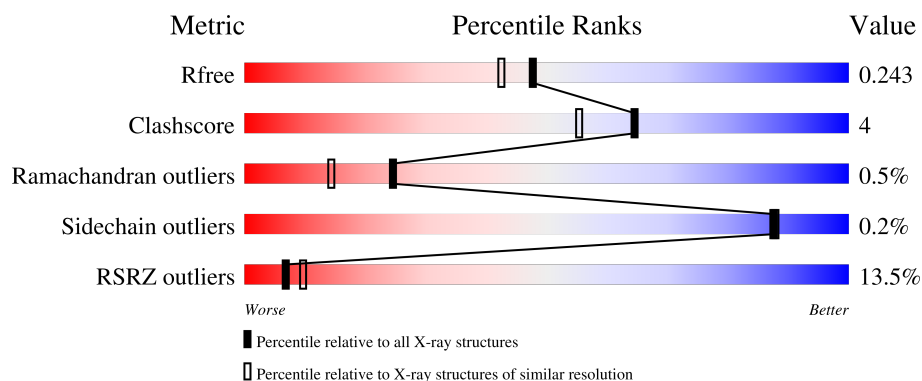
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.97 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}	180053	1506 (1.98-1.98)
Clashscore	190562	1534 (1.98-1.98)
Ramachandran outliers	187476	1518 (1.98-1.98)
Sidechain outliers	187428	1518 (1.98-1.98)
RSRZ outliers	180081	1506 (1.98-1.98)

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	296	11% 89% 9%
1	B	296	16% 89% 10%

2 Entry composition [i](#)

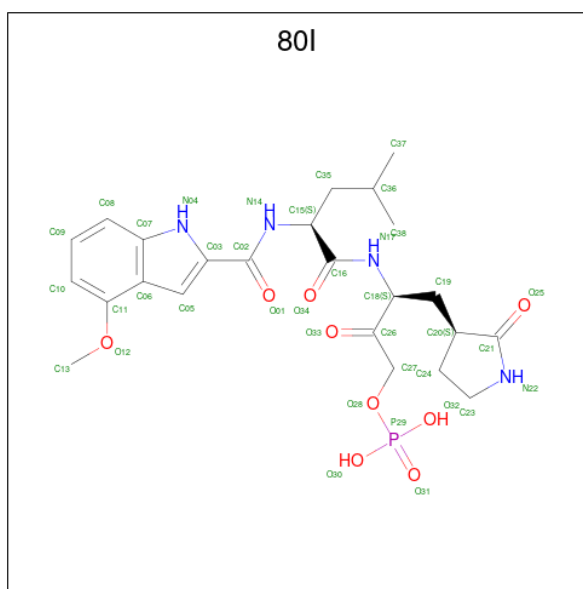
There are 3 unique types of molecules in this entry. The entry contains 4739 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 3C-like proteinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	296	Total	C	N	O	S	0	0	0
			2257	1432	383	422	20			
1	B	296	Total	C	N	O	S	0	0	0
			2257	1431	381	425	20			

- Molecule 2 is [(3 {S})-3-[[[(2 {S})-2-[(4-methoxy-1 {H}-indol-2-yl)carbonylamino]-4-methyl-pentanoyl]amino]-2-oxidanylidene-4-[(3 {R})-2-oxidanylidene-3,4-dihydropyrrol-3-yl]butyl] dihydrogen phosphate (CCD ID: 80I) (formula: C₂₄H₃₃N₄O₉P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	B	1	Total	C	N	O	P	0	0
			38	24	4	9	1		

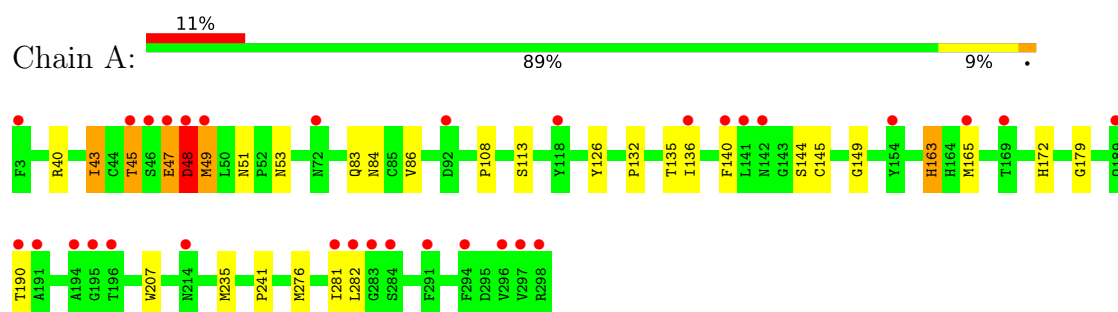
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	117	Total 117	O 117	0	0
3	B	70	Total 70	O 70	0	0

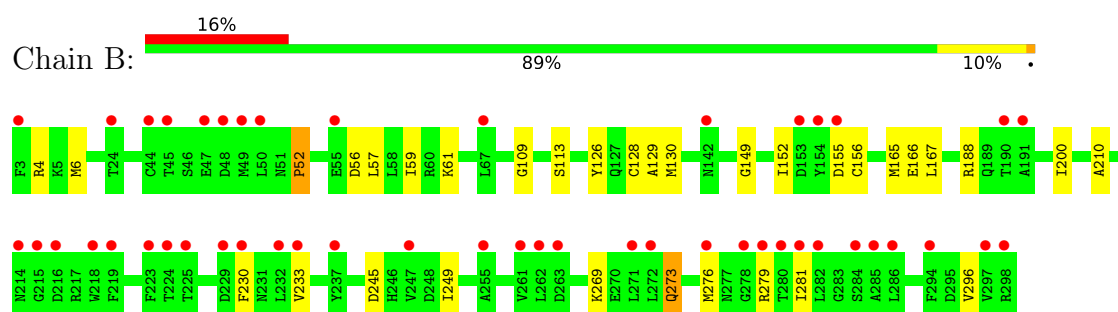
3 Residue-property plots

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: 3C-like proteinase



• Molecule 1: 3C-like proteinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	68.07Å 102.27Å 103.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.04 – 1.97 34.04 – 1.97	Depositor EDS
% Data completeness (in resolution range)	93.5 (34.04-1.97) 88.9 (34.04-1.97)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.43 (at 1.97Å)	Xtriage
Refinement program	PHENIX 1.12_2829, PHENIX 1.12_2829	Depositor
R, R_{free}	0.204 , 0.242 0.206 , 0.243	Depositor DCC
R_{free} test set	2003 reflections (3.84%)	wwPDB-VP
Wilson B-factor (Å ²)	29.0	Xtriage
Anisotropy	0.551	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 35.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.012 for -h,l,k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4739	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.02% 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: 80I

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	0.66	7/2308 (0.3%)	0.66	3/3144 (0.1%)
1	B	0.70	8/2308 (0.3%)	0.62	2/3145 (0.1%)
All	All	0.68	15/4616 (0.3%)	0.64	5/6289 (0.1%)

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	126	TYR	C-O	-8.77	1.13	1.23
1	A	43	ILE	C-O	-7.17	1.16	1.24
1	B	128	CYS	C-O	-6.85	1.15	1.23
1	B	152	ILE	C-O	-6.83	1.17	1.24
1	A	163	HIS	C-O	-6.80	1.15	1.24
1	B	156	CYS	C-O	-6.60	1.16	1.24
1	A	84	ASN	C-O	-6.36	1.16	1.24
1	B	52	PRO	C-O	-6.09	1.16	1.23
1	B	130	MET	C-O	-6.02	1.16	1.24
1	B	273	GLN	C-O	-5.53	1.19	1.23
1	A	51	ASN	C-O	-5.51	1.17	1.24
1	B	129	ALA	C-O	-5.50	1.17	1.23
1	A	83	GLN	C-O	-5.24	1.18	1.24
1	A	53	ASN	C-O	-5.21	1.17	1.23
1	A	45	THR	C-O	-5.16	1.17	1.23

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	48	ASP	N-CA-C	6.53	124.72	110.80
1	A	49	MET	N-CA-C	5.91	118.51	111.71
1	B	52	PRO	N-CA-C	5.67	120.39	111.38
1	B	128	CYS	N-CA-C	5.64	116.52	108.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	165	MET	N-CA-C	5.57	117.66	109.24

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	2257	0	2177	20	0
1	B	2257	0	2171	18	0
2	B	38	0	0	2	0
3	A	117	0	0	2	0
3	B	70	0	0	0	0
All	All	4739	0	4348	35	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 4.

All (35) 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:45:THR:HG22	1:A:48:ASP:OD2	1.79	0.83
1:A:47:GLU:O	1:A:49:MET:N	2.21	0.74
1:A:145:CYS:SG	3:A:373:HOH:O	2.54	0.64
1:B:269:LYS:NZ	1:B:273:GLN:OE1	2.34	0.61
1:A:126:TYR:HD1	1:B:6:MET:HE3	1.66	0.60
1:A:190:THR:HG22	3:A:387:HOH:O	2.02	0.60
1:B:52:PRO:HD2	1:B:188:ARG:HG2	1.84	0.59
1:A:86:VAL:HG13	1:A:179:GLY:HA2	1.86	0.57
1:B:109:GLY:HA2	1:B:200:ILE:HD13	1.86	0.56
1:A:163:HIS:CE1	1:A:172:HIS:HB3	2.44	0.52
1:B:276:MET:HE1	1:B:281:ILE:HG13	1.89	0.52
1:A:126:TYR:CD1	1:B:6:MET:HE3	2.45	0.52
1:A:126:TYR:CD2	1:B:4:ARG:HD2	2.46	0.50
1:B:166:GLU:HB2	2:B:301:80I:C21	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:MET:HE2	1:B:167:LEU:HD23	1.95	0.47
1:A:40:ARG:O	1:A:43:ILE:HG12	2.14	0.47
1:A:163:HIS:HE1	1:A:172:HIS:HB3	1.81	0.46
1:A:140:PHE:HD2	1:A:172:HIS:CG	2.33	0.46
1:B:276:MET:CE	1:B:281:ILE:HG13	2.45	0.46
1:B:210:ALA:HB2	1:B:296:VAL:HG13	1.97	0.45
1:B:276:MET:HE2	1:B:276:MET:HB3	1.80	0.44
1:B:56:ASP:O	1:B:59:ILE:HG22	2.18	0.43
1:B:230:PHE:O	1:B:233:VAL:HG22	2.18	0.43
1:B:245:ASP:O	1:B:249:ILE:HG12	2.19	0.43
1:A:108:PRO:HB3	1:A:132:PRO:HA	2.01	0.43
1:A:140:PHE:HB3	1:A:144:SER:OG	2.19	0.43
1:A:207:TRP:NE1	1:A:282:LEU:HD12	2.34	0.42
1:A:113:SER:O	1:A:149:GLY:HA2	2.19	0.42
1:B:166:GLU:O	2:B:301:80I:N04	2.51	0.42
1:A:140:PHE:HD2	1:A:172:HIS:CD2	2.37	0.42
1:B:57:LEU:O	1:B:61:LYS:HG2	2.19	0.42
1:A:135:THR:O	1:A:136:ILE:HD13	2.20	0.42
1:A:235:MET:HE2	1:A:241:PRO:HB3	2.02	0.41
1:A:276:MET:HE1	1:A:281:ILE:HD13	2.01	0.40
1:B:113:SER:O	1:B:149:GLY:HA2	2.21	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	294/296 (99%)	283 (96%)	9 (3%)	2 (1%)	18	9
1	B	294/296 (99%)	288 (98%)	5 (2%)	1 (0%)	36	27
All	All	588/592 (99%)	571 (97%)	14 (2%)	3 (0%)	24	14

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	48	ASP
1	A	47	GLU
1	B	279	ARG

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	245/255 (96%)	245 (100%)	0	100	100
1	B	246/255 (96%)	245 (100%)	1 (0%)	84	82
All	All	491/510 (96%)	490 (100%)	1 (0%)	87	88

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	155	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	74	GLN
1	A	163	HIS
1	B	19	GLN
1	B	119	ASN
1	B	172	HIS
1	B	189	GLN
1	B	274	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](#)

1 ligand is 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	80I	B	301	-	39,40,40	3.30	15 (38%)	48,57,57	1.26	5 (10%)

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	80I	B	301	-	-	3/35/46/46	0/3/3/3

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301	80I	C24-C23	-11.42	1.36	1.53
2	B	301	80I	C21-N22	9.52	1.43	1.33
2	B	301	80I	C16-N17	5.69	1.46	1.34
2	B	301	80I	C02-N14	5.63	1.45	1.34
2	B	301	80I	C23-N22	5.61	1.58	1.46
2	B	301	80I	C20-C21	-5.03	1.39	1.52
2	B	301	80I	C03-N04	-3.93	1.32	1.38
2	B	301	80I	C24-C20	3.61	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301	80I	O12-C11	2.53	1.41	1.37
2	B	301	80I	O34-C16	-2.44	1.18	1.23
2	B	301	80I	C06-C07	-2.38	1.39	1.41
2	B	301	80I	C03-C02	2.36	1.53	1.48
2	B	301	80I	P29-O28	2.18	1.67	1.60
2	B	301	80I	O25-C21	-2.14	1.19	1.23
2	B	301	80I	O01-C02	-2.07	1.19	1.23

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301	80I	C08-C07-C06	-3.38	119.98	122.66
2	B	301	80I	C23-N22-C21	-2.69	108.09	113.79
2	B	301	80I	O12-C11-C06	2.42	119.54	115.23
2	B	301	80I	C24-C20-C21	2.39	106.15	102.87
2	B	301	80I	C02-C03-N04	2.02	126.48	120.04

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	301	80I	O33-C26-C27-O28
2	B	301	80I	C18-C26-C27-O28
2	B	301	80I	N17-C18-C26-O33

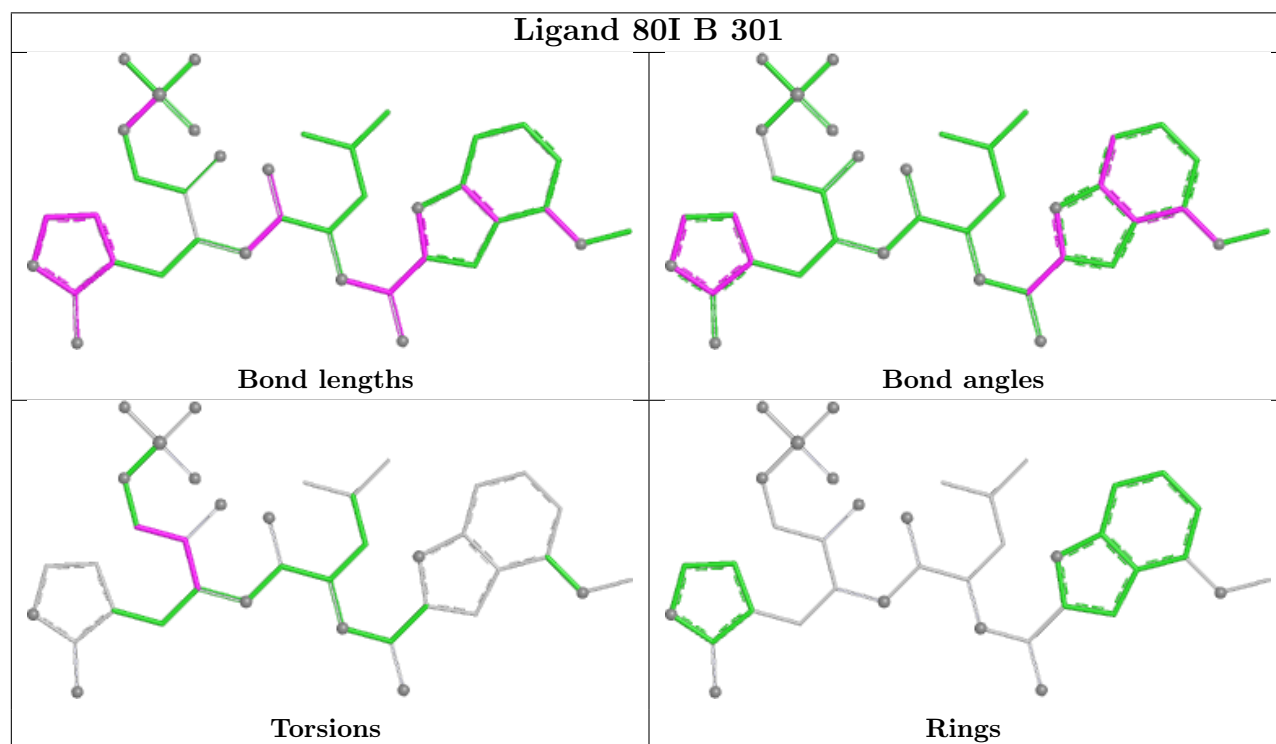
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	301	80I	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	296/296 (100%)	0.55	32 (10%)	11 15	22, 32, 51, 66	0
1	B	296/296 (100%)	0.81	48 (16%)	4 6	20, 37, 62, 76	0
All	All	592/592 (100%)	0.68	80 (13%)	7 10	20, 34, 58, 76	0

All (80) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	3	PHE	4.7
1	A	281	ILE	4.0
1	B	276	MET	4.0
1	B	280	THR	3.8
1	A	191	ALA	3.7
1	B	285	ALA	3.7
1	B	278	GLY	3.6
1	A	296	VAL	3.6
1	A	291	PHE	3.6
1	A	282	LEU	3.5
1	A	142	ASN	3.5
1	B	272	LEU	3.5
1	B	216	ASP	3.5
1	B	298	ARG	3.4
1	A	141	LEU	3.3
1	B	24	THR	3.3
1	B	263	ASP	3.3
1	B	286	LEU	3.2
1	B	224	THR	3.1
1	B	230	PHE	3.1
1	A	45	THR	3.0
1	B	225	THR	2.9
1	B	218	TRP	2.9
1	B	279	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	255	ALA	2.8
1	A	169	THR	2.7
1	A	297	VAL	2.7
1	B	229	ASP	2.7
1	A	47	GLU	2.7
1	A	294	PHE	2.7
1	B	262	LEU	2.7
1	B	282	LEU	2.7
1	B	233	VAL	2.7
1	B	45	THR	2.6
1	A	140	PHE	2.6
1	B	3	PHE	2.6
1	A	190	THR	2.6
1	B	190	THR	2.6
1	B	232	LEU	2.6
1	A	196	THR	2.6
1	B	44	CYS	2.5
1	A	92	ASP	2.5
1	B	154	TYR	2.4
1	A	214	ASN	2.4
1	A	154	TYR	2.4
1	B	271	LEU	2.4
1	B	294	PHE	2.4
1	A	48	ASP	2.4
1	B	153	ASP	2.4
1	A	283	GLY	2.4
1	B	284	SER	2.4
1	A	194	ALA	2.3
1	B	142	ASN	2.3
1	A	165	MET	2.3
1	A	189	GLN	2.3
1	B	67	LEU	2.3
1	A	49	MET	2.2
1	B	191	ALA	2.2
1	B	237	TYR	2.2
1	B	297	VAL	2.2
1	A	118	TYR	2.2
1	B	219	PHE	2.2
1	B	47	GLU	2.2
1	B	155	ASP	2.2
1	B	215	GLY	2.2
1	B	214	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	223	PHE	2.1
1	B	50	LEU	2.1
1	A	136	ILE	2.1
1	B	48	ASP	2.1
1	A	46	SER	2.1
1	A	284	SER	2.1
1	A	298	ARG	2.1
1	B	281	ILE	2.1
1	B	247	VAL	2.1
1	B	261	VAL	2.1
1	B	49	MET	2.0
1	A	195	GLY	2.0
1	A	72	ASN	2.0
1	B	55	GLU	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

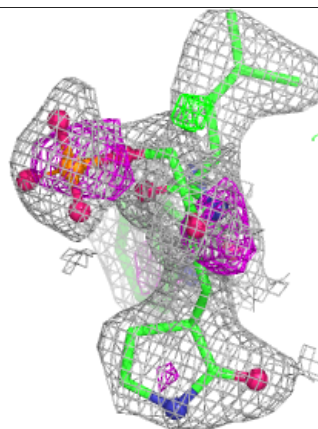
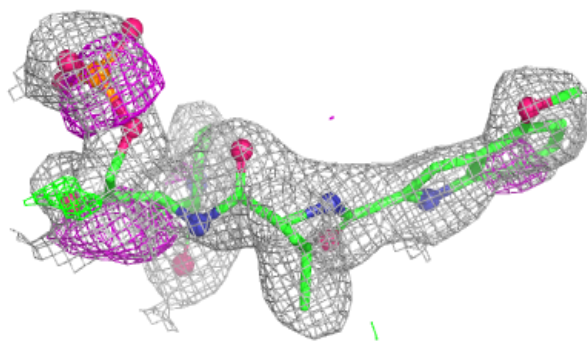
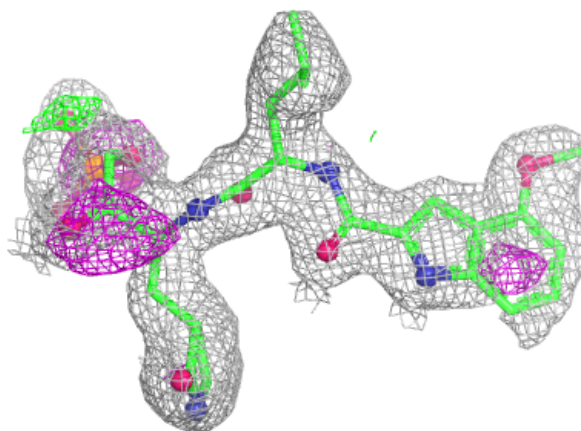
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	80I	B	301	38/38	0.82	0.13	34,44,65,70	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 80I B 301:

$2mF_o-DF_c$ (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.