Full wwPDB X-ray Structure Validation Report (i)

Aug 26, 2023 – 06:44 PM EDT

PDB ID	:	3GGU
Title	:	HIV PR drug resistant patient's variant in complex with darunavir
Authors	:	Saskova, K.G.; Brynda, J.; Rezacova, P.
Deposited on	:	2009-03-02
Resolution	:	1.80 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 (i) 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 (i)) were used in the production of this report:

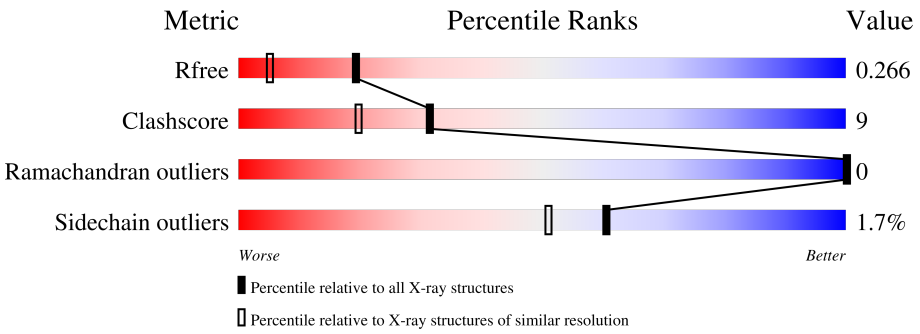
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	99	76% 22% •
1	B	99	80% 18% •

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 1821 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 Protease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	99	804	517	140	144	3	0	5	0
1	B	99	799	514	137	144	4	0	5	0

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	10	ILE	LEU	engineered mutation	UNP P03367
A	13	VAL	ILE	engineered mutation	UNP P03367
A	16	GLU	GLY	engineered mutation	UNP P03367
A	33	PHE	LEU	engineered mutation	UNP P03367
A	36	LEU	MET	engineered mutation	UNP P03367
A	37	THR	SER	engineered mutation	UNP P03367
A	39	SER	PRO	engineered mutation	UNP P03367
A	45	ARG	LYS	engineered mutation	UNP P03367
A	46	LEU	MET	engineered mutation	UNP P03367
A	54	VAL	ILE	engineered mutation	UNP P03367
A	55	ARG	LYS	engineered mutation	UNP P03367
A	62	VAL	ILE	engineered mutation	UNP P03367
A	63	PRO	LEU	engineered mutation	UNP P03367
A	71	VAL	ALA	engineered mutation	UNP P03367
A	73	ASP	GLY	engineered mutation	UNP P03367
A	82	THR	VAL	engineered mutation	UNP P03367
A	84	VAL	ILE	engineered mutation	UNP P03367
A	89	VAL	LEU	engineered mutation	UNP P03367
A	90	MET	LEU	engineered mutation	UNP P03367
A	93	LEU	ILE	engineered mutation	UNP P03367
B	10	ILE	LEU	engineered mutation	UNP P03367
B	13	VAL	ILE	engineered mutation	UNP P03367
B	16	GLU	GLY	engineered mutation	UNP P03367
B	33	PHE	LEU	engineered mutation	UNP P03367
B	36	LEU	MET	engineered mutation	UNP P03367

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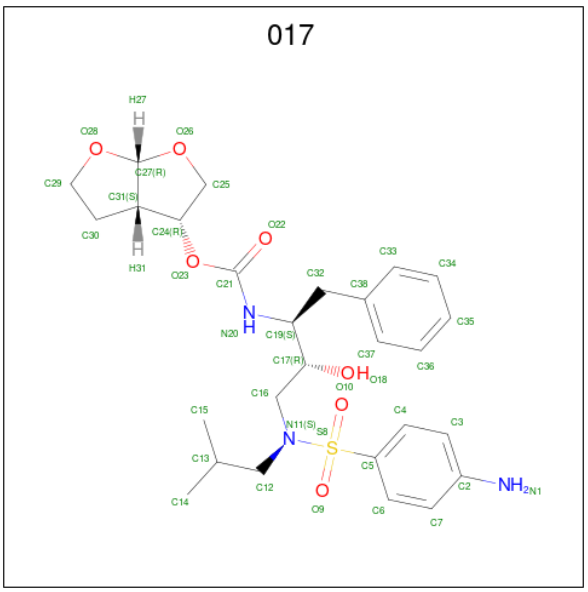
Chain	Residue	Modelled	Actual	Comment	Reference
B	37	THR	SER	engineered mutation	UNP P03367
B	39	SER	PRO	engineered mutation	UNP P03367
B	45	ARG	LYS	engineered mutation	UNP P03367
B	46	LEU	MET	engineered mutation	UNP P03367
B	54	VAL	ILE	engineered mutation	UNP P03367
B	55	ARG	LYS	engineered mutation	UNP P03367
B	62	VAL	ILE	engineered mutation	UNP P03367
B	63	PRO	LEU	engineered mutation	UNP P03367
B	71	VAL	ALA	engineered mutation	UNP P03367
B	73	ASP	GLY	engineered mutation	UNP P03367
B	82	THR	VAL	engineered mutation	UNP P03367
B	84	VAL	ILE	engineered mutation	UNP P03367
B	89	VAL	LEU	engineered mutation	UNP P03367
B	90	MET	LEU	engineered mutation	UNP P03367
B	93	LEU	ILE	engineered mutation	UNP P03367

- Molecule 2 is (3R,3AS,6AR)-HEXAHYDROFURO[2,3-B]FURAN-3-YL(1S,2R)-3-[[(4-AMINOPHENYL)SULFONYL](ISOBUTYL)AMINO]-1-BENZYL-2-HYDROXYPROPYLCARBAMATE (three-letter code: 017) (formula: $C_{27}H_{37}N_3O_7S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
2	B	1	76	54	6	14	2	0	1

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	76	76	76	0	0
			Total	O		
3	B	66	66	66	0	0

3 Residue-property plots (i)

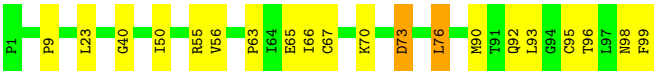
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. 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: Protease

Chain A:

- Molecule 1: Protease

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61	Depositor
Cell constants a, b, c, α, β, γ	62.59Å 62.59Å 81.92Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	22.61 – 1.80 22.60 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.7 (22.61-1.80) 99.7 (22.60-1.80)	Depositor EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	6.00 (at 1.80Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.204 , 0.246 0.271 , 0.266	Depositor DCC
R_{free} test set	857 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å^2)	23.6	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 35.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.51$, $< L^2 > = 0.35$	Xtriage
Estimated twinning fraction	0.489 for h,-h-k,-l	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	1821	wwPDB-VP
Average B, all atoms (Å^2)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.12% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: 017

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	0.60	2/828 (0.2%)	0.69	1/1124 (0.1%)
1	B	0.65	1/823 (0.1%)	0.71	0/1117
All	All	0.63	3/1651 (0.2%)	0.70	1/2241 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	40	GLY	C-O	9.68	1.39	1.23
1	A	95	CYS	CB-SG	-5.37	1.73	1.81
1	A	35	GLU	CD-OE1	5.09	1.31	1.25

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	40	GLY	CA-C-N	-5.20	105.76	117.20

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	804	0	841	20	0
1	B	799	0	833	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	76	0	74	5	0
3	A	76	0	0	3	0
3	B	66	0	0	1	0
All	All	1821	0	1748	31	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 9.

All (31) 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:50[B]:ILE:HD12	2:B:201[B]:017:O9	1.77	0.84
1:A:30:ASP:HB2	2:B:201[A]:017:H11	1.56	0.68
1:A:65:GLU:HG2	1:A:70:LYS:HG2	1.77	0.65
1:A:99:PHE:HB3	1:B:95:CYS:HA	1.78	0.64
1:A:30:ASP:HB2	2:B:201[A]:017:N1	2.17	0.59
1:B:65:GLU:HG2	1:B:70:LYS:HG2	1.85	0.59
1:A:45:ARG:NH1	1:A:76:LEU:HD21	2.20	0.56
3:A:141:HOH:O	2:B:201[A]:017:H34	2.05	0.56
1:A:45:ARG:HH11	1:A:76:LEU:HD21	1.72	0.55
1:A:95:CYS:HA	1:B:99:PHE:HB3	1.92	0.52
1:A:66:ILE:HG23	1:A:93:LEU:HD21	1.92	0.50
1:B:9:PRO:HD2	1:B:23:LEU:HD11	1.94	0.49
1:A:2:GLN:HE21	1:B:96:THR:HG21	1.79	0.48
1:A:67:CYS:HB3	1:B:99:PHE:CE2	2.49	0.48
1:A:98:ASN:HB2	1:B:98:ASN:OD1	2.14	0.48
1:B:56:VAL:HG21	1:B:76:LEU:HG	1.96	0.48
1:A:7[A]:GLN:HG2	3:A:162:HOH:O	2.14	0.48
1:A:56:VAL:HG12	1:A:78:GLY:HA3	1.97	0.47
1:A:8[B]:ARG:NH2	3:A:141:HOH:O	2.41	0.46
1:A:63:PRO:HA	1:A:72:ILE:HD13	1.99	0.44
1:B:50[B]:ILE:HD12	2:B:201[B]:017:O22	2.18	0.44
1:B:66:ILE:HG23	1:B:93:LEU:HD21	2.01	0.43
1:B:63:PRO:HB2	3:B:122:HOH:O	2.19	0.43
1:B:67[B]:CYS:SG	1:B:93:LEU:HD13	2.59	0.42
1:A:34:GLU:HA	1:A:78:GLY:O	2.20	0.42
1:B:73:ASP:OD2	1:B:92:GLN:NE2	2.54	0.41
1:A:63:PRO:CA	1:A:72:ILE:HD13	2.51	0.41
1:B:90:MET:CE	1:B:95:CYS:SG	3.09	0.41
1:A:99:PHE:CE2	1:B:67[B]:CYS:SG	3.11	0.41
1:A:73:ASP:OD2	1:A:92:GLN:NE2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:55:ARG:HG2	1:B:55:ARG:HH11	1.87	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	102/99 (103%)	101 (99%)	1 (1%)	0	100	100
1	B	102/99 (103%)	101 (99%)	1 (1%)	0	100	100
All	All	204/198 (103%)	202 (99%)	2 (1%)	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	90/86 (105%)	88 (98%)	2 (2%)	52	39
1	B	90/86 (105%)	88 (98%)	2 (2%)	52	39
All	All	180/172 (105%)	176 (98%)	4 (2%)	60	39

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50[A]	ILE
1	A	50[B]	ILE
1	B	73	ASP
1	B	76	LEU

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	2	GLN
1	B	92	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 monosaccharides 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	017	B	201[B]	-	41,41,41	3.11	13 (31%)	52,58,58	2.68	22 (42%)
2	017	B	201[A]	-	41,41,41	2.12	3 (7%)	52,58,58	1.95	15 (28%)

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	017	B	201[B]	-	-	4/36/55/55	0/4/4/4
2	017	B	201[A]	-	-	3/36/55/55	0/4/4/4

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	201[A]	017	C5-S8	-11.71	1.60	1.76
2	B	201[B]	017	C5-S8	-11.17	1.60	1.76
2	B	201[B]	017	O10-S8	-9.12	1.33	1.43
2	B	201[B]	017	O9-S8	-6.72	1.36	1.43
2	B	201[B]	017	O23-C21	5.97	1.45	1.35
2	B	201[A]	017	O23-C21	5.35	1.44	1.35
2	B	201[B]	017	O22-C21	-4.38	1.13	1.21
2	B	201[B]	017	O23-C24	-3.86	1.39	1.46
2	B	201[B]	017	C16-N11	-3.59	1.41	1.47
2	B	201[B]	017	C3-C2	-2.84	1.33	1.40
2	B	201[B]	017	O18-C17	-2.47	1.38	1.43
2	B	201[B]	017	C2-N1	-2.46	1.29	1.38
2	B	201[B]	017	S8-N11	-2.40	1.60	1.63
2	B	201[A]	017	O23-C24	-2.28	1.42	1.46
2	B	201[B]	017	C12-N11	-2.16	1.44	1.47
2	B	201[B]	017	C32-C38	-2.10	1.46	1.51

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	201[B]	017	O10-S8-O9	-7.88	106.76	119.52
2	B	201[A]	017	C5-S8-N11	6.36	114.88	107.30
2	B	201[A]	017	O10-S8-O9	-6.10	109.64	119.52
2	B	201[B]	017	C24-O23-C21	5.39	124.04	117.03
2	B	201[B]	017	O10-S8-N11	5.33	111.55	106.69
2	B	201[B]	017	C38-C32-C19	-4.90	104.83	113.33
2	B	201[B]	017	C6-C5-S8	4.65	124.65	119.76
2	B	201[B]	017	O9-S8-C5	4.51	113.75	108.05
2	B	201[B]	017	C19-N20-C21	4.23	130.29	122.37
2	B	201[B]	017	C3-C2-N1	-4.02	113.43	120.91
2	B	201[B]	017	C4-C5-S8	-3.80	115.76	119.76
2	B	201[B]	017	C7-C2-C3	3.57	123.68	118.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	201[B]	017	C6-C7-C2	-3.50	116.17	120.67
2	B	201[B]	017	O22-C21-N20	3.49	130.57	124.85
2	B	201[A]	017	O23-C21-O22	-3.26	119.62	124.53
2	B	201[B]	017	C29-C30-C31	3.23	107.86	103.32
2	B	201[B]	017	O23-C21-O22	-3.21	119.70	124.53
2	B	201[B]	017	C13-C12-N11	-3.00	108.94	112.41
2	B	201[B]	017	C25-O26-C27	2.98	110.85	106.86
2	B	201[A]	017	C32-C19-N20	-2.97	105.74	110.07
2	B	201[B]	017	O18-C17-C19	2.94	115.78	109.85
2	B	201[A]	017	C38-C32-C19	-2.90	108.29	113.33
2	B	201[A]	017	O23-C21-N20	2.85	114.02	110.32
2	B	201[A]	017	O23-C24-C25	-2.78	102.35	108.54
2	B	201[B]	017	O10-S8-C5	2.60	111.34	108.05
2	B	201[A]	017	C17-C19-N20	-2.57	104.97	109.92
2	B	201[A]	017	O9-S8-N11	2.54	109.00	106.69
2	B	201[A]	017	C30-C31-C27	2.48	105.56	102.34
2	B	201[A]	017	C16-N11-S8	-2.45	112.13	117.52
2	B	201[A]	017	C13-C12-N11	-2.29	109.76	112.41
2	B	201[B]	017	C37-C38-C33	2.26	121.72	118.17
2	B	201[A]	017	C12-N11-S8	-2.26	112.56	117.52
2	B	201[A]	017	C7-C2-C3	2.19	121.55	118.15
2	B	201[B]	017	O9-S8-N11	-2.09	104.79	106.69
2	B	201[A]	017	C29-O28-C27	2.07	111.20	107.52
2	B	201[B]	017	O26-C25-C24	2.05	108.19	104.52
2	B	201[B]	017	O28-C27-C31	2.04	110.00	107.05

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	201[B]	017	C16-C17-C19-N20
2	B	201[B]	017	C25-C24-O23-C21
2	B	201[A]	017	C16-C17-C19-C32
2	B	201[A]	017	C16-C17-C19-N20
2	B	201[A]	017	C12-N11-S8-O10
2	B	201[B]	017	C12-N11-S8-O10
2	B	201[B]	017	C31-C24-O23-C21

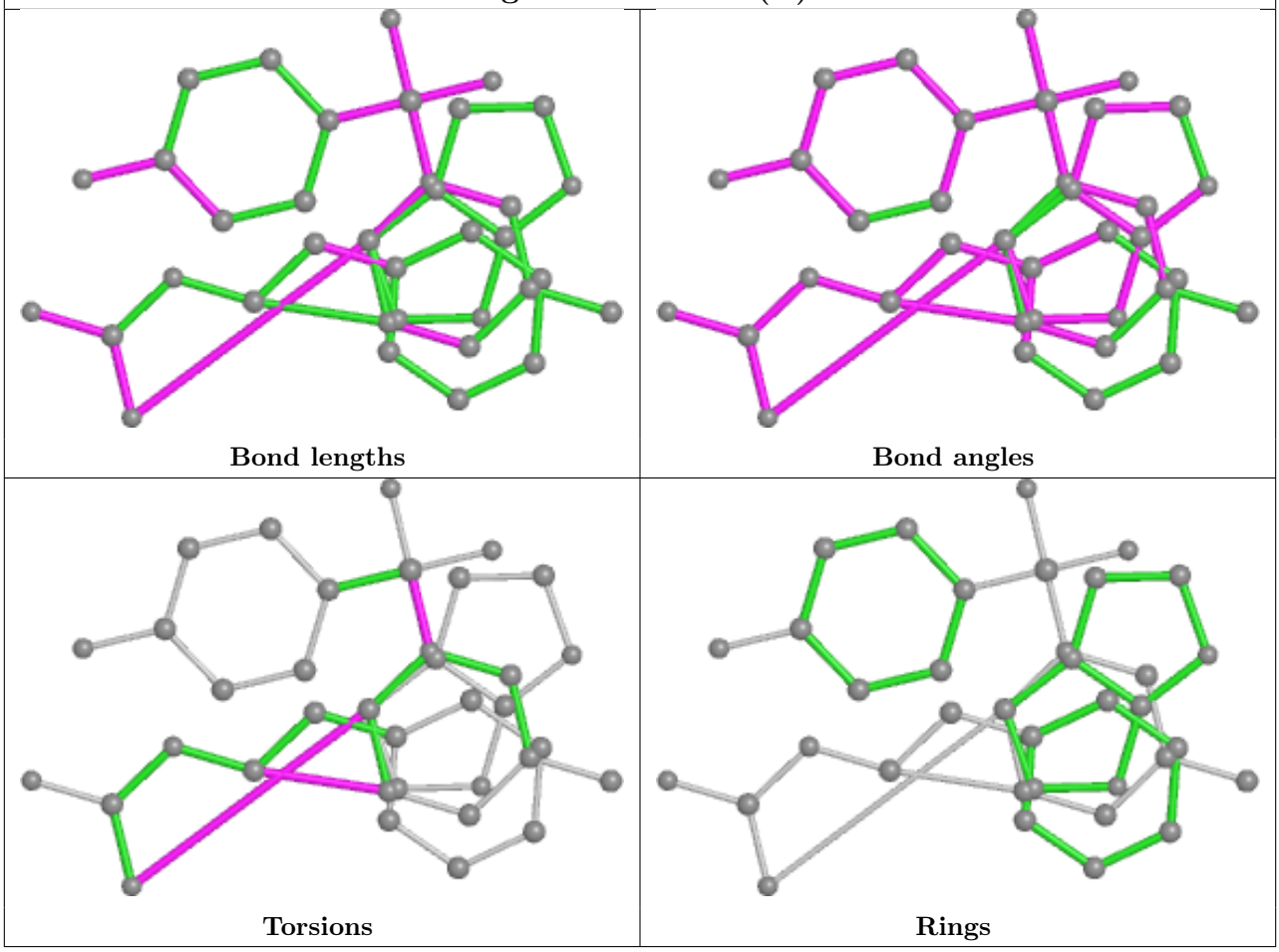
There are no ring outliers.

2 monomers are involved in 5 short contacts:

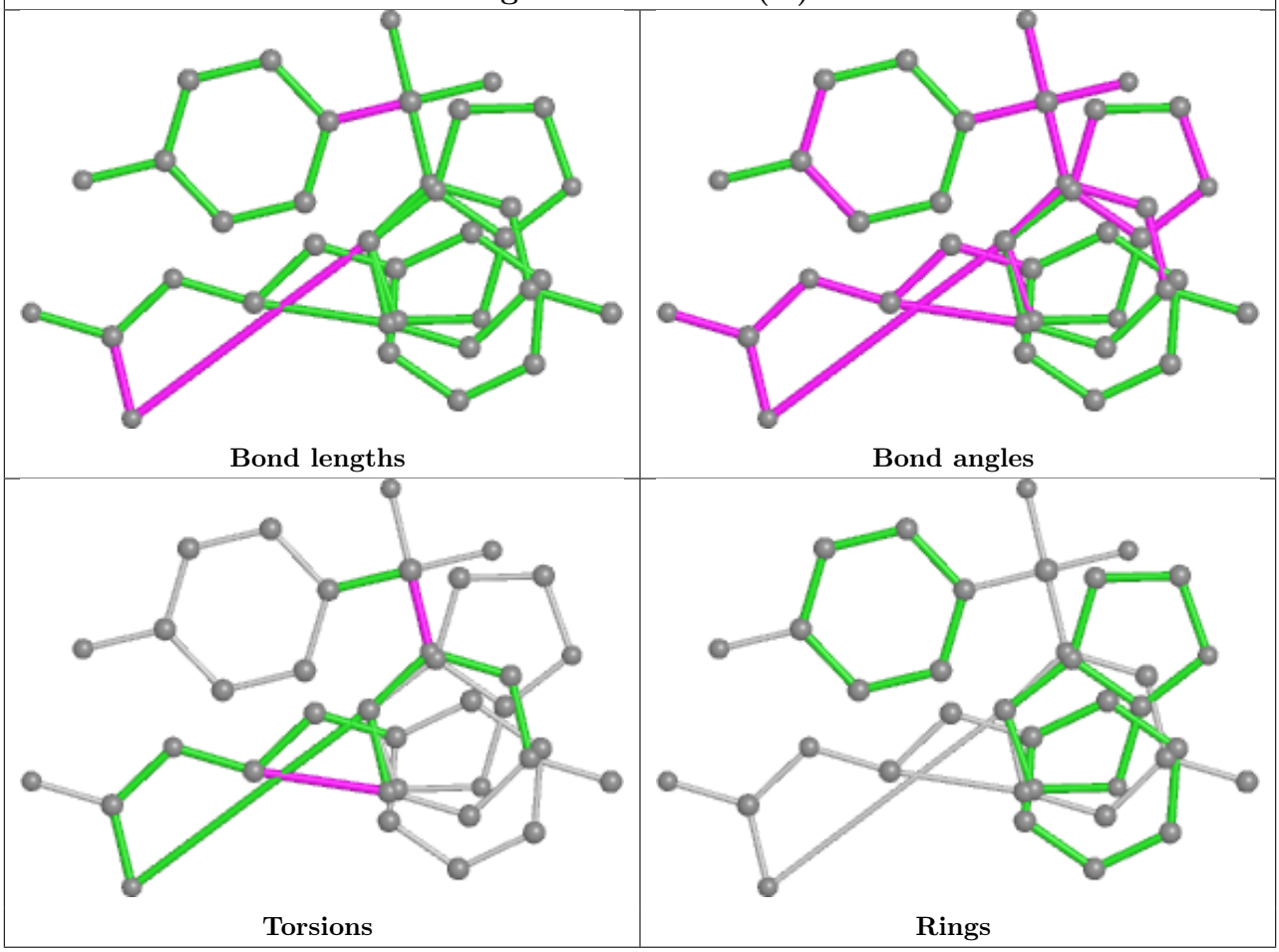
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	201[B]	017	2	0
2	B	201[A]	017	3	0

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 then 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.

Ligand 017 B 201 (B)



Ligand 017 B 201 (A)



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)

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates (i)

Unable to reproduce the depositors R factor - this section is therefore empty.

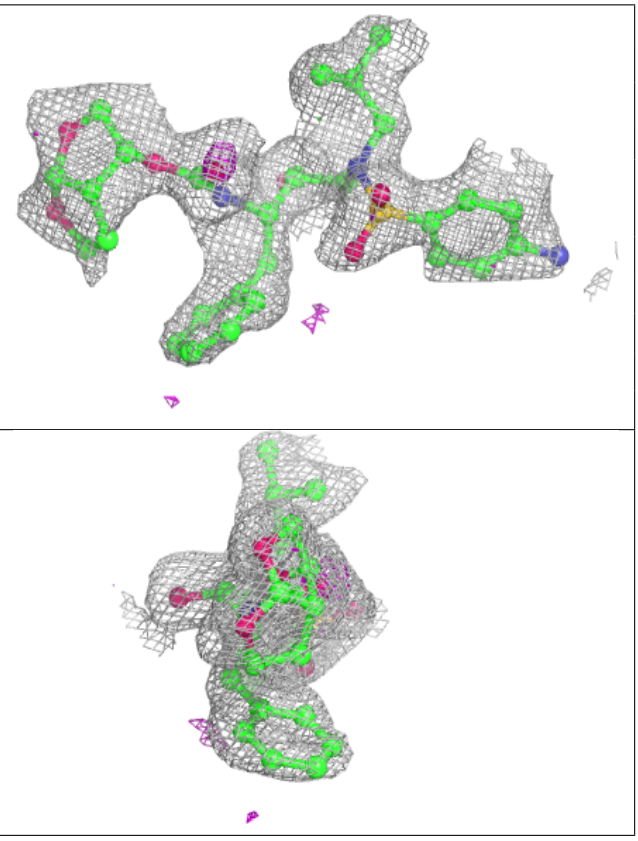
6.4 Ligands (i)

Unable to reproduce the depositors R factor - this section is therefore empty.

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.

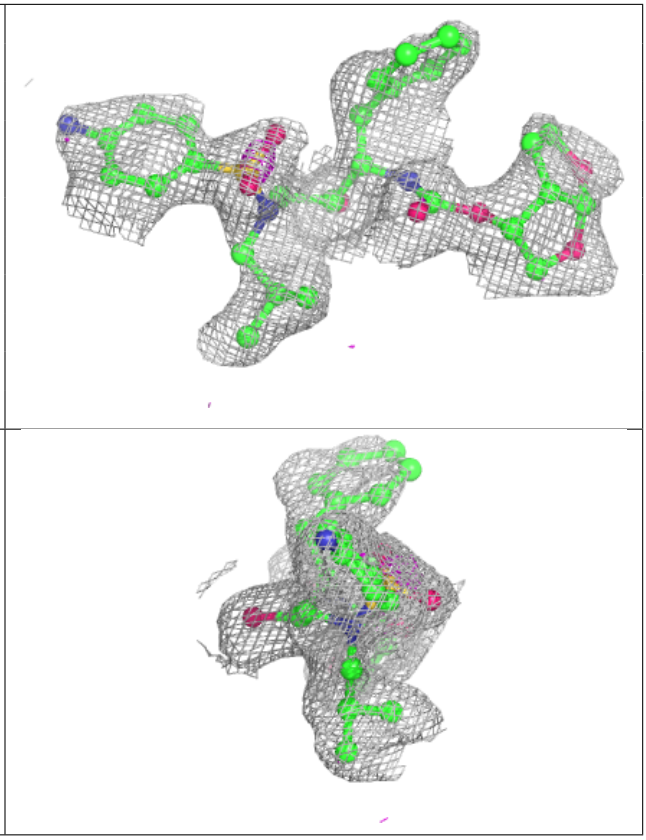
Electron density around 017 B 201 (A):

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



Electron density around 017 B 201 (B):

$2mF_o$-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)

Unable to reproduce the depositors R factor - this section is therefore empty.