



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 31, 2023 – 11:42 AM JST

PDB ID : 5D76
Title : The crystal structure of Ly7917 with the hydrolyzing product of MDP
Authors : Wu, L.; Ji, W.H.; Sun, J.H.; Zhou, J.H.
Deposited on : 2015-08-13
Resolution : 2.54 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

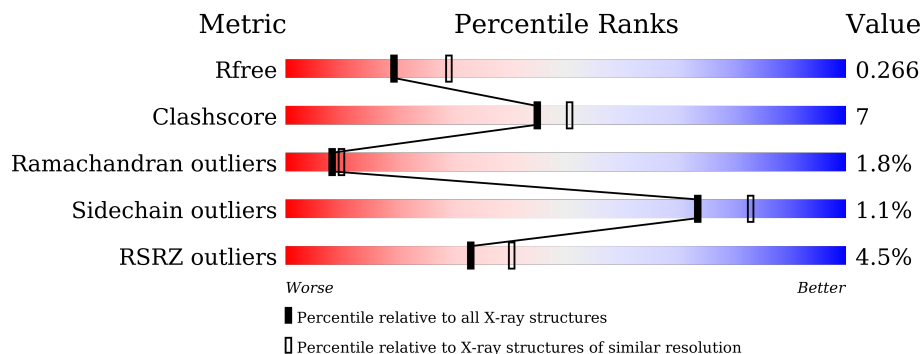
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.54 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	1284 (2.56-2.52)
Clashscore	141614	1332 (2.56-2.52)
Ramachandran outliers	138981	1315 (2.56-2.52)
Sidechain outliers	138945	1315 (2.56-2.52)
RSRZ outliers	127900	1272 (2.56-2.52)

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	273	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 70%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 20px;">72% 11% • 15%</p>
1	B	273	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 66%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 20px;">72% 11% • 15%</p>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3571 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 Putative phage lysin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	231	1745	1091	307	344	3	0	0	0
1	B	232	1769	1106	310	350	3	0	2	0

There are 56 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-27	MET	-	expression tag	UNP M1PKZ3
A	-26	GLY	-	expression tag	UNP M1PKZ3
A	-25	SER	-	expression tag	UNP M1PKZ3
A	-24	HIS	-	expression tag	UNP M1PKZ3
A	-23	HIS	-	expression tag	UNP M1PKZ3
A	-22	HIS	-	expression tag	UNP M1PKZ3
A	-21	HIS	-	expression tag	UNP M1PKZ3
A	-20	HIS	-	expression tag	UNP M1PKZ3
A	-19	HIS	-	expression tag	UNP M1PKZ3
A	-18	HIS	-	expression tag	UNP M1PKZ3
A	-17	HIS	-	expression tag	UNP M1PKZ3
A	-16	GLY	-	expression tag	UNP M1PKZ3
A	-15	SER	-	expression tag	UNP M1PKZ3
A	-14	ASP	-	expression tag	UNP M1PKZ3
A	-13	TYR	-	expression tag	UNP M1PKZ3
A	-12	ASP	-	expression tag	UNP M1PKZ3
A	-11	ILE	-	expression tag	UNP M1PKZ3
A	-10	PRO	-	expression tag	UNP M1PKZ3
A	-9	THR	-	expression tag	UNP M1PKZ3
A	-8	THR	-	expression tag	UNP M1PKZ3
A	-7	GLU	-	expression tag	UNP M1PKZ3
A	-6	ASN	-	expression tag	UNP M1PKZ3
A	-5	LEU	-	expression tag	UNP M1PKZ3
A	-4	TYR	-	expression tag	UNP M1PKZ3
A	-3	PHE	-	expression tag	UNP M1PKZ3

Continued on next page...

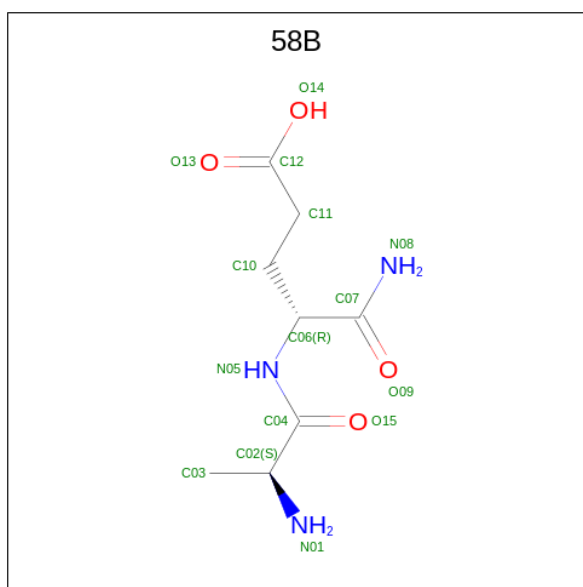
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	ASN	-	expression tag	UNP M1PKZ3
A	-1	GLY	-	expression tag	UNP M1PKZ3
A	0	SER	-	expression tag	UNP M1PKZ3
B	-27	MET	-	expression tag	UNP M1PKZ3
B	-26	GLY	-	expression tag	UNP M1PKZ3
B	-25	SER	-	expression tag	UNP M1PKZ3
B	-24	HIS	-	expression tag	UNP M1PKZ3
B	-23	HIS	-	expression tag	UNP M1PKZ3
B	-22	HIS	-	expression tag	UNP M1PKZ3
B	-21	HIS	-	expression tag	UNP M1PKZ3
B	-20	HIS	-	expression tag	UNP M1PKZ3
B	-19	HIS	-	expression tag	UNP M1PKZ3
B	-18	HIS	-	expression tag	UNP M1PKZ3
B	-17	HIS	-	expression tag	UNP M1PKZ3
B	-16	GLY	-	expression tag	UNP M1PKZ3
B	-15	SER	-	expression tag	UNP M1PKZ3
B	-14	ASP	-	expression tag	UNP M1PKZ3
B	-13	TYR	-	expression tag	UNP M1PKZ3
B	-12	ASP	-	expression tag	UNP M1PKZ3
B	-11	ILE	-	expression tag	UNP M1PKZ3
B	-10	PRO	-	expression tag	UNP M1PKZ3
B	-9	THR	-	expression tag	UNP M1PKZ3
B	-8	THR	-	expression tag	UNP M1PKZ3
B	-7	GLU	-	expression tag	UNP M1PKZ3
B	-6	ASN	-	expression tag	UNP M1PKZ3
B	-5	LEU	-	expression tag	UNP M1PKZ3
B	-4	TYR	-	expression tag	UNP M1PKZ3
B	-3	PHE	-	expression tag	UNP M1PKZ3
B	-2	ASN	-	expression tag	UNP M1PKZ3
B	-1	GLY	-	expression tag	UNP M1PKZ3
B	0	SER	-	expression tag	UNP M1PKZ3

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Cl 2 2	0	0

- Molecule 3 is L-alanyl-D-alpha-glutamine (three-letter code: 58B) (formula: C₈H₁₅N₃O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			15	8	3	4		
3	B	1	Total	C	N	O	0	0
			15	8	3	4		

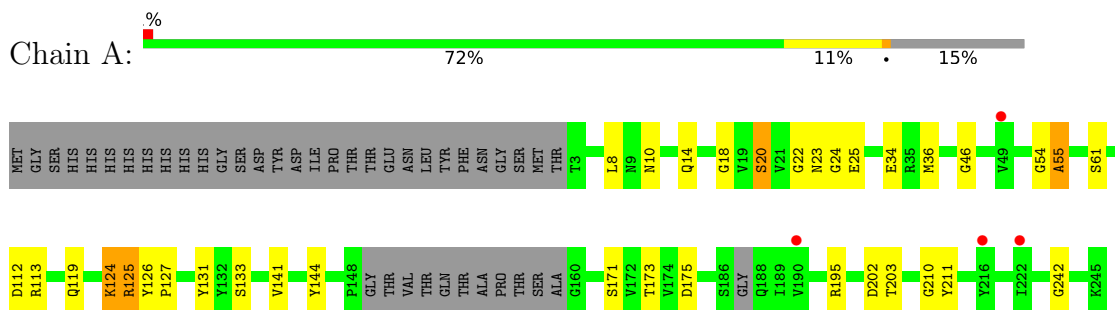
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	9	Total	O	0	0
			9	9		
4	B	16	Total	O	0	0
			16	16		

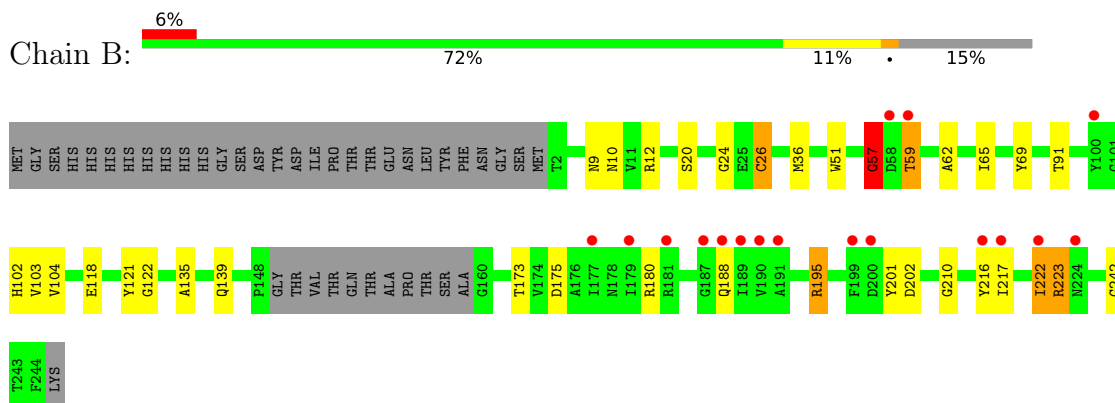
3 Residue-property plots [i](#)

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 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: Putative phage lysin



- Molecule 1: Putative phage lysin



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	69.86Å 97.14Å 174.52Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.28 – 2.54 48.57 – 2.54	Depositor EDS
% Data completeness (in resolution range)	99.5 (37.28-2.54) 99.7 (48.57-2.54)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 2.54Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.207 , 0.266 0.212 , 0.266	Depositor DCC
R_{free} test set	965 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	57.2	Xtrriage
Anisotropy	0.135	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 43.7	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	0.94	EDS
Total number of atoms	3571	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.75% 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: 58B, CL

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	0.56	0/1783	0.58	0/2431
1	B	0.58	1/1812 (0.1%)	0.61	1/2472 (0.0%)
All	All	0.57	1/3595 (0.0%)	0.60	1/4903 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	26	CYS	CB-SG	-6.60	1.71	1.82

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	57	GLY	C-N-CA	5.82	136.25	121.70

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	1745	0	1657	20	0
1	B	1769	0	1683	25	0
2	A	2	0	0	0	0
3	A	15	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	15	0	0	0	0
4	A	9	0	0	0	0
4	B	16	0	0	0	0
All	All	3571	0	3340	45	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 7.

All (45) 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:B:175:ASP:OD1	1:B:195:ARG:NH1	2.16	0.77
1:B:9:ASN:OD1	1:B:12:ARG:NH2	2.18	0.77
1:B:36:MET:HE3	1:B:210:GLY:HA2	1.70	0.74
1:B:57:GLY:O	1:B:69:TYR:OH	2.09	0.66
1:A:34:GLU:OE1	1:A:46:GLY:N	2.29	0.64
1:B:26:CYS:SG	1:B:102:HIS:ND1	2.71	0.64
1:A:54:GLY:HA2	1:A:55:ALA:O	1.98	0.63
1:B:26:CYS:HB3	1:B:103:VAL:HG12	1.78	0.63
1:B:217:ILE:HG23	1:B:222:ILE:HA	1.81	0.62
1:A:202:ASP:OD1	1:A:203:THR:OG1	2.16	0.61
1:B:20:SER:HB2	1:B:24:GLY:HA2	1.86	0.58
1:A:22:GLY:HA3	1:A:23:ASN:HB3	1.86	0.58
1:B:65:ILE:HB	1:B:91:THR:HG21	1.87	0.57
1:A:173:THR:HG23	1:A:242:GLY:HA2	1.88	0.55
1:A:36:MET:CE	1:A:210:GLY:HA2	2.37	0.54
1:A:175:ASP:OD1	1:A:195:ARG:NH2	2.38	0.54
1:B:201:TYR:HA	1:B:216:TYR:HB3	1.89	0.54
1:A:22:GLY:CA	1:A:23:ASN:HB3	2.38	0.54
1:A:124:LYS:O	1:A:126:TYR:N	2.38	0.53
1:B:57:GLY:H	1:B:59:THR:HG22	1.73	0.52
1:B:104:VAL:HG12	1:B:118:GLU:HG3	1.91	0.52
1:B:36:MET:CE	1:B:210:GLY:HA2	2.39	0.51
1:A:22:GLY:HA3	1:A:24:GLY:H	1.77	0.49
1:B:202:ASP:OD1	1:B:216:TYR:HA	2.13	0.49
1:A:25:GLU:OE2	1:A:125:ARG:NH2	2.47	0.48
1:A:112:ASP:OD2	1:A:133:SER:OG	2.22	0.47
1:A:113:ARG:HD2	1:A:131:TYR:CD1	2.51	0.46
1:B:10:ASN:HD22	1:B:36:MET:HE2	1.81	0.46
1:A:10:ASN:HB3	1:A:36:MET:HE1	1.97	0.46
1:B:216:TYR:O	1:B:223:ARG:HA	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:ALA:O	1:B:139:GLN:NE2	2.49	0.44
1:B:217:ILE:HD13	1:B:223:ARG:H	1.83	0.44
1:A:119:GLN:OE1	1:A:127:PRO:HD3	2.19	0.43
1:B:121:TYR:HA	1:B:122:GLY:HA2	1.70	0.42
1:B:180:ARG:HA	1:B:188:GLN:O	2.19	0.42
1:B:62:ALA:HA	1:B:65:ILE:HG12	2.01	0.42
1:B:217:ILE:HD13	1:B:223:ARG:HG2	2.01	0.42
1:A:20:SER:HB2	1:A:24:GLY:HA2	2.03	0.41
1:B:222:ILE:HA	1:B:222:ILE:HD13	1.82	0.41
1:B:173:THR:OG1	1:B:242:GLY:HA2	2.21	0.41
1:A:14:GLN:HG2	1:A:211:TYR:OH	2.21	0.41
1:A:141:VAL:HG11	1:A:144:TYR:CE1	2.56	0.41
1:A:8:LEU:HD23	1:A:8:LEU:HA	1.91	0.41
1:A:18:GLY:HA2	1:A:126:TYR:CD1	2.56	0.40
1:B:91:THR:HG22	1:B:103:VAL:HG23	2.02	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	225/273 (82%)	210 (93%)	11 (5%)	4 (2%)	8	10
1	B	230/273 (84%)	213 (93%)	13 (6%)	4 (2%)	9	11
All	All	455/546 (83%)	423 (93%)	24 (5%)	8 (2%)	8	10

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	124	LYS
1	B	59	THR
1	B	195	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	57	GLY
1	A	125	ARG
1	B	223	ARG
1	A	55	ALA
1	A	61	SER

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	178/215 (83%)	176 (99%)	2 (1%)	73 83
1	B	182/215 (85%)	180 (99%)	2 (1%)	73 83
All	All	360/430 (84%)	356 (99%)	4 (1%)	73 83

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

Mol	Chain	Res	Type
1	A	20	SER
1	A	171	SER
1	B	51	TRP
1	B	222	ILE

Sometimes 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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	58B	A	303	-	13,14,14	1.77	2 (15%)	18,18,18	1.25	2 (11%)
3	58B	B	301	-	13,14,14	1.77	2 (15%)	18,18,18	1.40	2 (11%)

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	58B	A	303	-	-	8/17/17/17	-
3	58B	B	301	-	-	10/17/17/17	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	301	58B	C04-N05	3.93	1.42	1.34
3	B	301	58B	C07-N08	3.77	1.42	1.32
3	A	303	58B	C07-N08	3.73	1.42	1.32
3	A	303	58B	C04-N05	3.57	1.41	1.34

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	303	58B	C06-C07-N08	3.06	121.92	116.69
3	B	301	58B	O09-C07-N08	-2.68	118.33	123.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	303	58B	O09-C07-N08	-2.30	119.00	123.00
3	B	301	58B	O09-C07-C06	2.27	123.59	120.27

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	301	58B	N05-C06-C10-C11
3	B	301	58B	C07-C06-C10-C11
3	B	301	58B	C10-C06-C07-N08
3	B	301	58B	C10-C06-C07-O09
3	A	303	58B	N05-C06-C10-C11
3	A	303	58B	N01-C02-C04-O15
3	A	303	58B	N01-C02-C04-N05
3	A	303	58B	N05-C06-C07-O09
3	B	301	58B	N05-C06-C07-O09
3	A	303	58B	C07-C06-C10-C11
3	B	301	58B	C03-C02-C04-N05
3	A	303	58B	N05-C06-C07-N08
3	B	301	58B	N05-C06-C07-N08
3	A	303	58B	C06-C10-C11-C12
3	B	301	58B	C03-C02-C04-O15
3	B	301	58B	C10-C11-C12-O13
3	B	301	58B	C10-C11-C12-O14
3	A	303	58B	C10-C06-C07-O09

There are no ring outliers.

No monomer is involved in short contacts.

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	231/273 (84%)	0.25	4 (1%) 70 76	26, 44, 65, 86	0
1	B	232/273 (84%)	0.53	17 (7%) 15 18	28, 46, 75, 106	0
All	All	463/546 (84%)	0.39	21 (4%) 33 40	26, 45, 73, 106	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	191	ALA	5.2
1	A	222	ILE	4.9
1	B	177	ILE	4.4
1	B	217	ILE	4.4
1	B	200	ASP	3.7
1	B	199	PHE	3.6
1	B	224	ASN	3.4
1	B	189	ILE	3.3
1	B	190	VAL	2.9
1	A	49	VAL	2.7
1	B	179	ILE	2.6
1	B	222	ILE	2.6
1	B	58	ASP	2.5
1	A	216	TYR	2.3
1	B	216	TYR	2.3
1	A	190	VAL	2.2
1	B	181	ARG	2.2
1	B	100	TYR	2.2
1	B	188	GLN	2.2
1	B	59	THR	2.1
1	B	187	GLY	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 monosaccharides 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	58B	B	301	15/15	0.84	0.26	48,63,79,81	0
3	58B	A	303	15/15	0.87	0.27	42,55,61,63	0
2	CL	A	301	1/1	0.96	0.08	48,48,48,48	0
2	CL	A	302	1/1	0.96	0.10	54,54,54,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.