



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 26, 2017 – 02:53 PM EDT

PDB ID : 3LSO
Title : Crystal structure of Putative membrane anchored protein from *Corynebacterium diphtheriae*
Authors : Chang, C.; Sather, A.; Clancy, S.; Joachimiak, A.; Midwest Center for Structural Genomics (MCSG)
Deposited on : unknown
Resolution : 2.75 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

<http://wwpdb.org/validation/2016/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	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20030345
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20030345

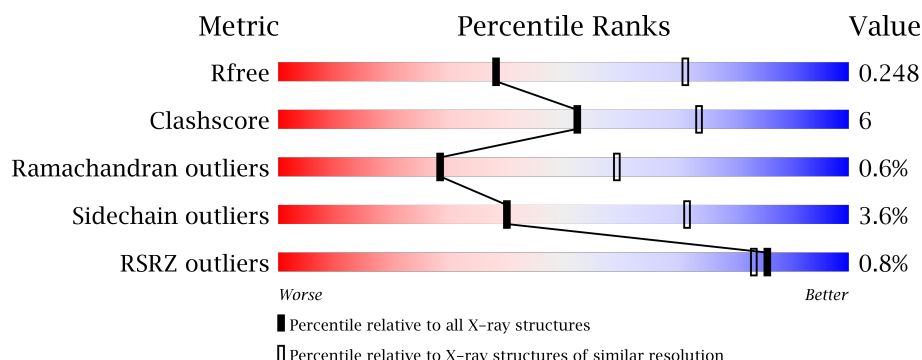
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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}	100719	3666 (2.80-2.72)
Clashscore	112137	4174 (2.80-2.72)
Ramachandran outliers	110173	4103 (2.80-2.72)
Sidechain outliers	110143	4106 (2.80-2.72)
RSRZ outliers	101464	3697 (2.80-2.72)

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. 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	489	<div> <div style="width: 100%; height: 10px; position: relative;"> <div style="position: absolute; top: -10px; left: 0; width: 100%; text-align: center;">%</div> <div style="position: absolute; top: 10px; left: 0; width: 100%; text-align: center;">79% 11% 9%</div> </div> </div>
2	B	489	<div> <div style="width: 100%; height: 10px; position: relative;"> <div style="position: absolute; top: -10px; left: 0; width: 100%; text-align: center;">%</div> <div style="position: absolute; top: 10px; left: 0; width: 100%; text-align: center;">75% 15% 9%</div> </div> </div>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6657 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 membrane anchored protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	445	Total	C	N	O	S	Se	0	0	0
			3315	2089	538	681	2	5			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	21	SER	-	EXPRESSION TAG	UNP Q6NEZ3
A	22	ASN	-	EXPRESSION TAG	UNP Q6NEZ3

- Molecule 2 is a protein called Putative membrane anchored protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	B	445	Total	C	N	O	S	Se	0	0	0
			3279	2064	534	674	2	5			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	21	SER	-	EXPRESSION TAG	UNP Q6NEZ3
B	22	ASN	-	EXPRESSION TAG	UNP Q6NEZ3

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Cl	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	27	Total	O	0	0
			27	27		

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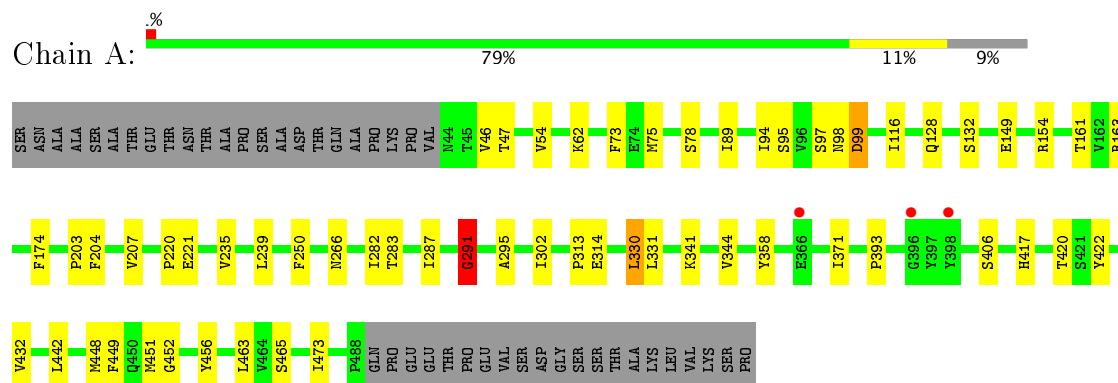
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	35	Total	O	0	0
			35	35		

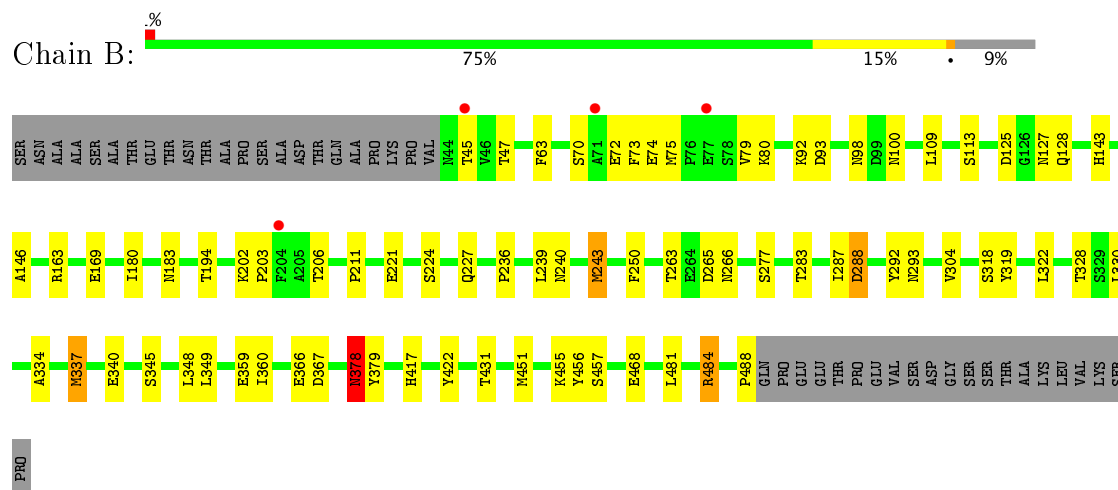
3 Residue-property plots [i](#)

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: Putative membrane anchored protein



- Molecule 2: Putative membrane anchored protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	73.20 Å 95.52 Å 160.78 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.75 47.09 – 2.75	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.00-2.75) 99.7 (47.09-2.75)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.46 (at 2.73 Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.215 , 0.251 0.215 , 0.248	Depositor DCC
R_{free} test set	1521 reflections (5.34%)	DCC
Wilson B-factor (Å ²)	55.4	Xtriage
Anisotropy	0.276	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 46.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6657	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.26% 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: MLZ, 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	0.55	0/3365	0.68	1/4580 (0.0%)
2	B	0.62	0/3327	0.73	2/4531 (0.0%)
All	All	0.58	0/6692	0.71	3/9111 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	B	0	1
All	All	0	2

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	B	378	ASN	CB-CA-C	-11.05	88.29	110.40
2	B	488	PRO	N-CA-CB	6.61	111.23	103.30
1	A	291	GLY	N-CA-C	5.10	125.86	113.10

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	220	PRO	Peptide
2	B	63	PHE	Peptide

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	3315	0	3242	29	0
2	B	3279	0	3189	53	0
3	B	1	0	0	0	0
4	A	27	0	0	0	0
4	B	35	0	0	2	0
All	All	6657	0	6431	82	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 6.

All (82) 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:B:378:ASN:ND2	2:B:431:THR:H	1.37	1.22
2:B:359:GLU:HG3	2:B:417:HIS:CE1	1.95	1.02
2:B:378:ASN:HD21	2:B:431:THR:N	1.63	0.97
2:B:128:GLN:HE22	2:B:163:ARG:H	1.06	0.94
2:B:378:ASN:HD21	2:B:431:THR:H	0.97	0.92
2:B:378:ASN:ND2	2:B:431:THR:N	2.20	0.82
2:B:240:ASN:OD1	2:B:243:MSE:HA	1.87	0.74
1:A:330:LEU:HD23	1:A:448:MSE:HE1	1.71	0.72
2:B:109:LEU:HD22	2:B:183:ASN:HD22	1.55	0.70
1:A:128:GLN:HE22	1:A:163:ARG:H	1.37	0.70
1:A:417:HIS:HD2	1:A:422:TYR:OH	1.75	0.69
2:B:183:ASN:OD1	2:B:194:THR:HB	1.96	0.66
2:B:47:THR:HG22	2:B:70:SER:HB3	1.78	0.65
2:B:378:ASN:HB2	2:B:379:TYR:CD2	2.31	0.65
2:B:378:ASN:HB2	2:B:379:TYR:HD2	1.63	0.64
2:B:47:THR:HG22	2:B:70:SER:CB	2.28	0.64
2:B:287:ILE:HD13	2:B:293:ASN:HD21	1.64	0.63
1:A:452:GLY:HA2	1:A:463:LEU:HD23	1.80	0.62
2:B:236:PRO:HG2	2:B:239:LEU:HD12	1.82	0.61
2:B:98:ASN:ND2	2:B:100:ASN:HB2	2.16	0.60
1:A:287:ILE:HG22	1:A:291:GLY:HA2	1.83	0.60
2:B:109:LEU:CD2	2:B:183:ASN:HD22	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:GLN:NE2	2:B:163:ARG:H	1.88	0.59
2:B:360:ILE:HB	2:B:451:MSE:HE2	1.83	0.58
1:A:149:GLU:OE2	1:A:154:ARG:HD3	2.03	0.58
2:B:265:ASP:O	2:B:266:ASN:HB2	2.03	0.58
2:B:322:LEU:HB2	2:B:345:SER:HB3	1.87	0.57
2:B:277:SER:HB2	2:B:304:VAL:O	2.04	0.56
1:A:282:ILE:HD11	1:A:302:ILE:HD12	1.88	0.55
1:A:358:TYR:HA	1:A:422:TYR:CD1	2.41	0.55
2:B:127:ASN:HB2	4:B:519:HOH:O	2.05	0.55
1:A:282:ILE:CD1	1:A:302:ILE:HD12	2.37	0.55
1:A:239:LEU:HD13	1:A:295:ALA:HB2	1.90	0.54
2:B:224:SER:H	2:B:227:GLN:NE2	2.05	0.54
2:B:417:HIS:HD2	2:B:422:TYR:OH	1.90	0.54
2:B:109:LEU:HD22	2:B:183:ASN:ND2	2.22	0.54
1:A:313:PRO:HD2	1:A:314:GLU:OE1	2.08	0.53
1:A:442:LEU:HD23	1:A:473:ILE:CD1	2.39	0.53
2:B:109:LEU:CD2	2:B:183:ASN:ND2	2.72	0.53
1:A:174:PHE:O	1:A:203:PRO:HA	2.08	0.53
2:B:243:MSE:HE3	2:B:263:THR:HA	1.93	0.51
1:A:250:PHE:HB2	1:A:283:THR:HB	1.94	0.50
2:B:378:ASN:HD22	2:B:431:THR:H	1.43	0.50
2:B:283:THR:HG21	2:B:481:LEU:HD11	1.93	0.50
1:A:235:VAL:O	1:A:266:ASN:HB3	2.11	0.50
2:B:348:LEU:HD23	2:B:348:LEU:C	2.33	0.49
1:A:73:PHE:CE1	1:A:89:ILE:HD12	2.48	0.49
2:B:250:PHE:HB2	2:B:283:THR:HB	1.94	0.49
2:B:455:LYS:HE3	2:B:456:TYR:CZ	2.48	0.49
1:A:98:ASN:OD1	1:A:99:ASP:N	2.45	0.49
1:A:73:PHE:HZ	1:A:116:ILE:HD13	1.77	0.48
1:A:287:ILE:CG2	1:A:291:GLY:HA2	2.43	0.48
2:B:366:GLU:O	2:B:367:ASP:HB2	2.12	0.48
1:A:432:VAL:HG12	1:A:451:MSE:CE	2.43	0.48
2:B:293:ASN:O	2:B:484:ARG:NH2	2.47	0.48
2:B:287:ILE:HD13	2:B:293:ASN:ND2	2.27	0.47
2:B:348:LEU:HD23	2:B:349:LEU:N	2.30	0.47
2:B:318:SER:HB2	4:B:516:HOH:O	2.15	0.47
1:A:448:MSE:SE	1:A:465:SER:HB3	2.66	0.46
2:B:378:ASN:O	2:B:379:TYR:HB3	2.15	0.46
1:A:432:VAL:HG12	1:A:451:MSE:HE2	1.97	0.46
2:B:328:THR:HG21	2:B:334:ALA:HB2	1.97	0.46
2:B:180:ILE:O	2:B:180:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:109:LEU:HG	2:B:146:ALA:HB3	1.98	0.45
2:B:72:GLU:HG2	2:B:74:GLU:HG3	1.99	0.45
1:A:46:VAL:HG21	1:A:204:PHE:HA	1.98	0.45
2:B:125:ASP:HB3	2:B:163:ARG:HG2	1.99	0.44
1:A:282:ILE:HD13	1:A:302:ILE:CD1	2.47	0.44
2:B:468:GLU:OE1	2:B:468:GLU:N	2.51	0.44
1:A:344:VAL:HG21	1:A:449:PHE:CE1	2.54	0.43
2:B:337:MSE:HB3	2:B:340:GLU:OE1	2.20	0.42
1:A:341:LYS:HG2	1:A:371:ILE:HD11	2.02	0.42
1:A:54:VAL:O	1:A:62:LYS:HA	2.19	0.42
2:B:109:LEU:HG	2:B:146:ALA:CB	2.50	0.42
2:B:319:TYR:CD1	2:B:319:TYR:N	2.88	0.42
1:A:330:LEU:HD23	1:A:448:MSE:CE	2.45	0.42
2:B:70:SER:OG	2:B:92:LYS:HB3	2.20	0.42
2:B:169:GLU:OE1	2:B:211:PRO:HG3	2.20	0.42
2:B:73:PHE:HD2	2:B:75:MSE:HE2	1.85	0.41
2:B:202:LYS:HA	2:B:203:PRO:HD3	1.68	0.41
1:A:75:MSE:HE2	1:A:207:VAL:HG21	2.03	0.41
2:B:288:ASP:HB2	2:B:292:TYR:O	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	442/489 (90%)	420 (95%)	18 (4%)	4 (1%)	20	49
2	B	442/489 (90%)	421 (95%)	20 (4%)	1 (0%)	51	81
All	All	884/978 (90%)	841 (95%)	38 (4%)	5 (1%)	28	59

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	291	GLY
2	B	378	ASN
1	A	221	GLU
1	A	456	TYR
1	A	393	PRO

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	366/410 (89%)	354 (97%)	12 (3%)	43	74
2	B	359/410 (88%)	345 (96%)	14 (4%)	37	69
All	All	725/820 (88%)	699 (96%)	26 (4%)	40	71

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	47	THR
1	A	78	SER
1	A	94	ILE
1	A	95	SER
1	A	97	SER
1	A	99	ASP
1	A	132	SER
1	A	161	THR
1	A	330	LEU
1	A	331	LEU
1	A	406	SER
1	A	420	THR
2	B	45	THR
2	B	79	VAL
2	B	80	LYS
2	B	93	ASP
2	B	113	SER
2	B	143	HIS
2	B	206	THR

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Mol	Chain	Res	Type
2	B	221	GLU
2	B	243	MSE
2	B	288	ASP
2	B	330	LEU
2	B	337	MSE
2	B	457	SER
2	B	484	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	128	GLN
1	A	165	GLN
1	A	193	ASN
1	A	248	GLN
1	A	417	HIS
2	B	98	ASN
2	B	128	GLN
2	B	183	ASN
2	B	227	GLN
2	B	248	GLN
2	B	378	ASN
2	B	417	HIS
2	B	430	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

2 non-standard protein/DNA/RNA residues 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
1	MLZ	A	267	1	9,9,10	0.56	0	6,9,11	1.00	0
2	MLZ	B	440	2	9,9,10	0.55	0	6,9,11	0.92	0

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
1	MLZ	A	267	1	-	0/6/8/10	0/0/0/0
2	MLZ	B	440	2	-	0/6/8/10	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	439/489 (89%)	-0.18	3 (0%) 87 85	12, 32, 44, 55	0
2	B	439/489 (89%)	-0.13	4 (0%) 84 82	2, 31, 47, 54	0
All	All	878/978 (89%)	-0.15	7 (0%) 86 83	2, 32, 45, 55	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	204	PHE	4.0
2	B	77	GLU	2.8
1	A	396	GLY	2.8
2	B	71	ALA	2.7
1	A	398	TYR	2.5
2	B	45	THR	2.2
1	A	366	GLU	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	MLZ	B	440	10/11	0.94	0.19	-	2,9,11,11	0
1	MLZ	A	267	10/11	0.95	0.17	-	19,23,25,25	0

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
3	CL	B	510	1/1	0.98	0.39	-	37,37,37,37	0

6.5 Other polymers [i](#)

There are no such residues in this entry.