



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:44 AM UTC

PDB ID : 6LDY / pdb_00006ldy
Title : Structure antibody D6 in complex with methylated peptide
Authors : Caaveiro, J.M.M.; Tsumoto, K.
Deposited on : 2019-11-23
Resolution : 1.77 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:

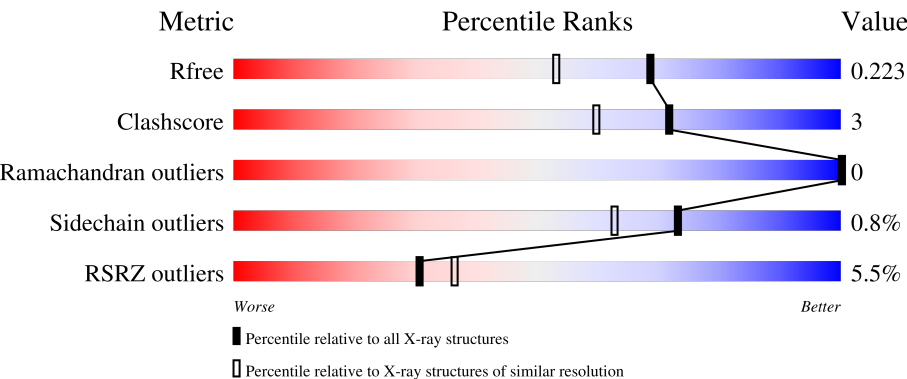
MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

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

The reported resolution of this entry is 1.77 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	1365 (1.78-1.78)
Clashscore	190562	1395 (1.78-1.78)
Ramachandran outliers	187476	1382 (1.78-1.78)
Sidechain outliers	187428	1382 (1.78-1.78)
RSRZ outliers	180081	1365 (1.78-1.78)

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	241	4% 83% 5% 12%
1	H	241	6% 83% • 12%
2	B	240	2% 83% 7% 10%
2	L	240	8% 79% 10% • 10%
3	C	14	7% 50% 14% 36%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	M	14	14%57%14%29%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 7265 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 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	212	Total	C	N	O	S	0	1	0
			1568	990	259	309	10			
1	H	211	Total	C	N	O	S	0	2	0
			1573	995	262	306	10			

- Molecule 2 is a protein called Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	216	Total	C	N	O	S	0	4	0
			1615	1008	264	336	7			
2	L	215	Total	C	N	O	S	0	4	0
			1609	1004	263	335	7			

- Molecule 3 is a protein called Methylated peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	9	Total	C	N	O	0	0	0
			71	48	11	12			
3	M	10	Total	C	N	O	0	0	0
			80	53	12	15			

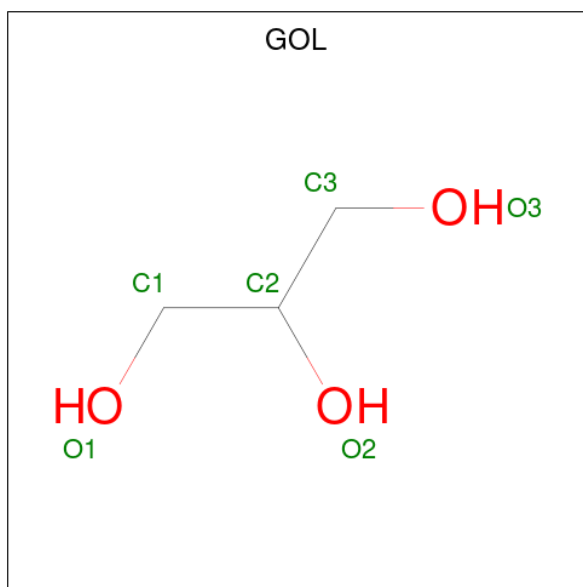
- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Ca	0	0
			1	1		
4	H	1	Total	Ca	0	0
			1	1		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	H	3	Total Cl 3 3	0	0

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	B	1	Total C O 6 3 3	0	0

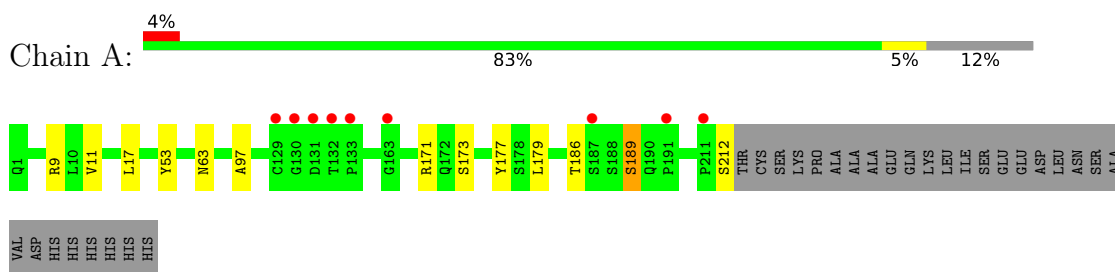
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	169	Total O 170 170	0	1
7	B	189	Total O 192 192	0	5
7	C	10	Total O 10 10	0	0
7	H	179	Total O 183 183	0	5
7	L	174	Total O 176 176	0	2
7	M	6	Total O 6 6	0	0

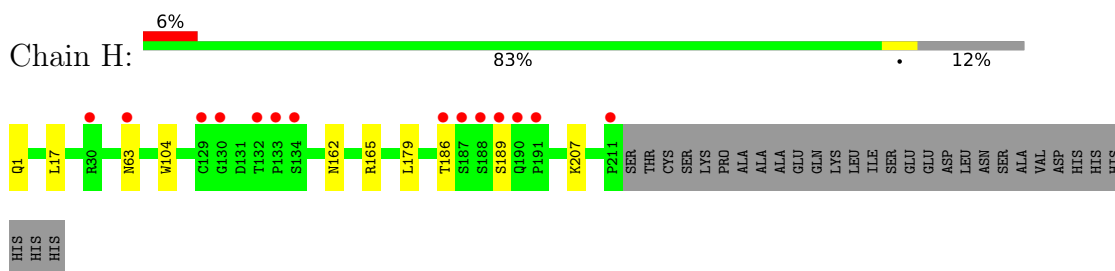
3 Residue-property plots

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.

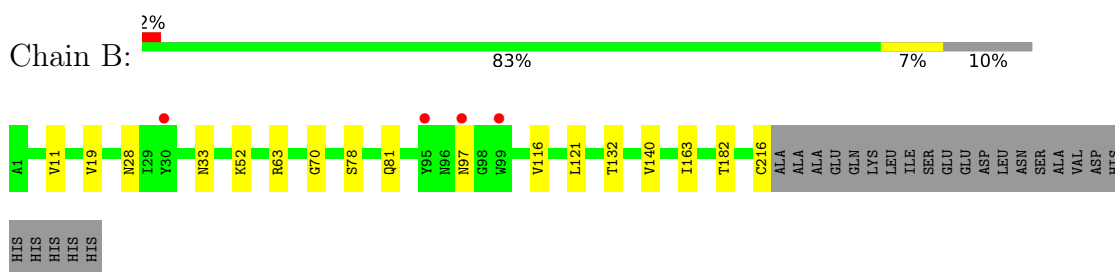
- Molecule 1: Fab heavy chain



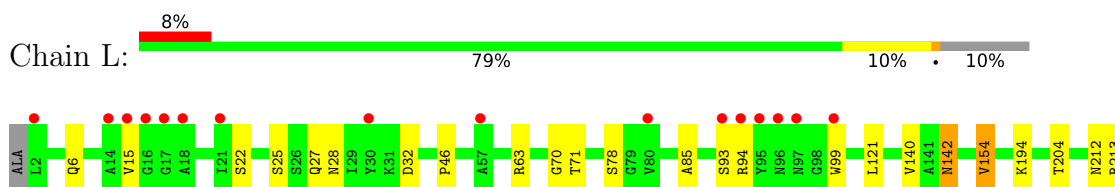
- Molecule 1: Fab heavy chain

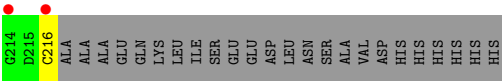


- Molecule 2: Fab light chain

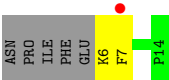


- Molecule 2: Fab light chain

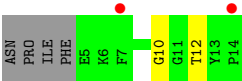




● Molecule 3: Methylated peptide



● Molecule 3: Methylated peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	41.52Å 76.21Å 79.21Å 85.58° 84.20° 76.03°	Depositor
Resolution (Å)	40.18 – 1.77 40.18 – 1.77	Depositor EDS
% Data completeness (in resolution range)	96.8 (40.18-1.77) 96.8 (40.18-1.77)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 1.77Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.185 , 0.218 0.193 , 0.223	Depositor DCC
R_{free} test set	3482 reflections (3.81%)	wwPDB-VP
Wilson B-factor (Å ²)	21.3	Xtriage
Anisotropy	0.575	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 41.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7265	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.15% 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: CA, GOL, CL, M3L

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	1.05	0/1612	1.26	0/2211
1	H	1.05	0/1620	1.25	0/2220
2	B	1.10	1/1661 (0.1%)	1.25	1/2275 (0.0%)
2	L	1.14	3/1655 (0.2%)	1.28	5/2266 (0.2%)
3	C	1.03	0/61	1.07	0/79
3	M	1.23	1/70 (1.4%)	1.61	2/91 (2.2%)
All	All	1.09	5/6679 (0.1%)	1.26	8/9142 (0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	L	15	VAL	C-O	5.73	1.29	1.24
2	L	142[A]	ASN	C-O	5.41	1.30	1.23
2	L	142[B]	ASN	C-O	5.41	1.30	1.23
2	B	70	GLY	C-O	5.18	1.30	1.23
3	M	12	THR	C-O	5.18	1.30	1.23

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	10	GLY	CA-C-N	7.49	127.45	120.34
3	M	10	GLY	C-N-CA	7.49	127.45	120.34
2	B	28	ASN	CA-CB-CG	-6.33	106.27	112.60
2	L	213	ARG	CA-C-N	-6.22	113.55	123.31
2	L	213	ARG	C-N-CA	-6.22	113.55	123.31
2	L	154	VAL	N-CA-CB	5.93	119.35	111.64
2	L	204	THR	CA-CB-OG1	-5.44	101.44	109.60
2	L	154	VAL	CA-CB-CG2	5.05	118.98	110.40

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	1568	0	1541	9	0
1	H	1573	0	1557	11	0
2	B	1615	0	1564	9	0
2	L	1609	0	1554	18	0
3	C	71	0	72	2	0
3	M	80	0	78	0	0
4	A	1	0	0	0	0
4	H	1	0	0	0	0
5	A	1	0	0	0	0
5	H	3	0	0	0	0
6	B	6	0	8	1	0
7	A	170	0	0	2	0
7	B	192	0	0	2	0
7	C	10	0	0	0	0
7	H	183	0	0	4	0
7	L	176	0	0	3	0
7	M	6	0	0	0	0
All	All	7265	0	6374	43	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 3.

All (43) 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:L:28:ASN:HD22	2:L:70:GLY:HA2	1.44	0.83
1:H:63:ASN:ND2	7:H:401:HOH:O	2.14	0.80
1:A:9:ARG:NH1	1:A:11:VAL:HG12	2.01	0.75
2:B:63:ARG:HB2	2:B:78:SER:O	1.93	0.68
1:A:63:ASN:ND2	7:A:402:HOH:O	2.26	0.68
2:B:132:THR:O	7:B:401:HOH:O	2.15	0.65
2:L:194:LYS:HE2	2:L:212:ASN:HB3	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:194:LYS:CE	2:L:212:ASN:HB3	2.29	0.63
1:H:165:ARG:HH21	2:L:142[A]:ASN:CG	2.07	0.63
2:L:28:ASN:ND2	2:L:70:GLY:HA2	2.15	0.60
1:H:1:GLN:N	7:H:404:HOH:O	2.31	0.60
1:A:171:ARG:HD2	1:A:177:TYR:CZ	2.38	0.58
2:B:121:LEU:HB2	2:B:140[A]:VAL:HG22	1.88	0.56
2:L:63:ARG:HB2	2:L:78:SER:O	2.06	0.54
1:A:97:ALA:O	3:C:6:LYS:NZ	2.36	0.54
2:L:121:LEU:HB2	2:L:140[A]:VAL:HG22	1.91	0.52
1:A:173:SER:O	7:A:401:HOH:O	2.20	0.50
1:H:165:ARG:HD2	2:L:142[A]:ASN:OD1	2.13	0.49
2:L:28:ASN:ND2	2:L:70:GLY:CA	2.76	0.49
2:L:28:ASN:HD22	2:L:70:GLY:CA	2.21	0.49
2:L:27:GLN:HG3	2:L:94:ARG:NH1	2.28	0.48
2:B:11:VAL:HG12	2:B:19:VAL:HG21	1.95	0.48
1:A:179:LEU:HD12	1:A:179:LEU:C	2.39	0.47
1:H:165:ARG:NH2	2:L:142[B]:ASN:OD1	2.47	0.47
1:H:207[A]:LYS:HE2	7:L:312:HOH:O	2.14	0.47
1:H:162:ASN:O	7:H:403:HOH:O	2.21	0.47
1:H:186:THR:O	1:H:189:SER:HB2	2.15	0.47
1:H:179:LEU:C	1:H:179:LEU:HD12	2.40	0.46
2:B:97:ASN:O	2:B:97:ASN:CG	2.59	0.46
1:H:17:LEU:HD11	7:H:452:HOH:O	2.16	0.45
1:A:186:THR:O	1:A:189:SER:HB3	2.16	0.45
2:B:216:CYS:C	7:B:516:HOH:O	2.59	0.45
2:B:81:GLN:NE2	6:B:301:GOL:O1	2.51	0.44
2:L:216:CYS:C	7:L:307:HOH:O	2.61	0.44
2:L:99:TRP:CD1	2:L:99:TRP:N	2.87	0.42
2:B:33:ASN:O	2:B:52:LYS:HA	2.20	0.42
2:B:163:ILE:HA	2:B:182:THR:O	2.20	0.42
1:A:11:VAL:HG11	1:A:17:LEU:HD22	2.01	0.42
1:A:53:TYR:CE1	3:C:7:PHE:CE1	3.08	0.41
2:L:6:GLN:HA	2:L:22:SER:O	2.21	0.41
1:H:104:TRP:CZ3	2:L:46:PRO:HG2	2.56	0.41
2:L:85:ALA:HB1	7:L:308:HOH:O	2.21	0.41
2:L:25:SER:OG	2:L:71:THR:HA	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	211/241 (88%)	209 (99%)	2 (1%)	0	100	100
1	H	211/241 (88%)	209 (99%)	2 (1%)	0	100	100
2	B	218/240 (91%)	209 (96%)	9 (4%)	0	100	100
2	L	217/240 (90%)	209 (96%)	8 (4%)	0	100	100
3	C	6/14 (43%)	6 (100%)	0	0	100	100
3	M	7/14 (50%)	7 (100%)	0	0	100	100
All	All	870/990 (88%)	849 (98%)	21 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	179/203 (88%)	177 (99%)	2 (1%)	65	51
1	H	179/203 (88%)	179 (100%)	0	100	100
2	B	187/203 (92%)	186 (100%)	1 (0%)	81	73
2	L	187/203 (92%)	184 (98%)	3 (2%)	55	38
3	C	5/10 (50%)	5 (100%)	0	100	100
3	M	6/10 (60%)	6 (100%)	0	100	100
All	All	743/832 (89%)	737 (99%)	6 (1%)	73	63

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	189	SER
1	A	212	SER
2	B	116	VAL
2	L	32	ASP
2	L	93	SER
2	L	154	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	63	ASN
2	B	28	ASN
2	B	81	GLN
2	B	97	ASN
2	B	209	GLN
2	B	212	ASN
1	H	38	GLN
1	H	63	ASN
1	H	162	ASN
2	L	28	ASN
2	L	40	GLN
2	L	212	ASN

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	$\# Z > 2$
3	M3L	C	9	3	10,11,12	0.44	0	9,14,16	0.48	0
3	M3L	M	9	3	10,11,12	0.59	0	9,14,16	0.31	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
3	M3L	C	9	3	-	0/9/10/12	-
3	M3L	M	9	3	-	0/9/10/12	-

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 6 are 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	$\# Z > 2$
6	GOL	B	301	-	5,5,5	0.09	0	5,5,5	0.20	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
6	GOL	B	301	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	301	GOL	O1-C1-C2-C3
6	B	301	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	301	GOL	1	0

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	212/241 (87%)	0.28	9 (4%)	40 47	10, 25, 51, 70	1 (0%)
1	H	211/241 (87%)	0.32	14 (6%)	24 29	13, 26, 48, 70	2 (0%)
2	B	216/240 (90%)	0.16	4 (1%)	66 74	9, 25, 43, 65	4 (1%)
2	L	215/240 (89%)	0.59	18 (8%)	17 20	10, 28, 48, 69	4 (1%)
3	C	8/14 (57%)	0.71	1 (12%)	8 8	28, 32, 44, 44	0
3	M	9/14 (64%)	1.23	2 (22%)	2 2	30, 35, 49, 52	0
All	All	871/990 (87%)	0.35	48 (5%)	30 36	9, 26, 47, 70	11 (1%)

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	133	PRO	4.3
1	A	133	PRO	4.2
1	A	132	THR	3.9
2	L	30	TYR	3.9
1	A	129	CYS	3.7
2	B	97	ASN	3.6
1	H	188	SER	3.5
2	L	99	TRP	3.4
1	H	132	THR	3.2
1	A	211	PRO	3.2
1	H	129	CYS	3.2
2	L	18	ALA	3.0
2	L	96	ASN	3.0
1	H	130	GLY	3.0
2	L	2	LEU	2.8
1	H	186	THR	2.7
2	L	17	GLY	2.7
1	H	187	SER	2.6
3	M	7	PHE	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	H	190	GLN	2.6
2	L	216	CYS	2.6
2	L	15	VAL	2.5
2	L	214	GLY	2.5
1	H	191	PRO	2.5
1	H	211	PRO	2.5
2	L	97	ASN	2.4
2	L	16	GLY	2.4
3	M	14	PRO	2.4
2	L	95	TYR	2.4
2	L	80	VAL	2.4
1	A	130	GLY	2.3
1	A	163	GLY	2.3
1	A	131	ASP	2.3
2	L	57	ALA	2.2
3	C	7	PHE	2.2
1	A	187	SER	2.2
2	B	95	TYR	2.2
2	L	21	ILE	2.2
2	B	99	TRP	2.1
2	B	30	TYR	2.1
1	H	134	SER	2.1
2	L	94	ARG	2.1
1	H	63	ASN	2.1
1	H	30[A]	ARG	2.0
1	H	189	SER	2.0
2	L	93	SER	2.0
1	A	191	PRO	2.0
2	L	14	ALA	2.0

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

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
3	M3L	M	9	12/13	0.90	0.10	28,29,30,31	0
3	M3L	C	9	12/13	0.93	0.09	25,27,28,28	0

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
6	GOL	B	301	6/6	0.72	0.25	24,28,29,34	6
5	CL	H	303	1/1	0.96	0.09	31,31,31,31	0
4	CA	H	301	1/1	0.97	0.06	49,49,49,49	0
5	CL	H	302	1/1	0.97	0.08	29,29,29,29	0
4	CA	A	301	1/1	0.98	0.10	45,45,45,45	0
5	CL	H	304	1/1	0.99	0.09	31,31,31,31	0
5	CL	A	302	1/1	0.99	0.05	22,22,22,22	0

6.5 Other polymers [i](#)

There are no such residues in this entry.