



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 12:38 PM UTC

PDB ID : 7LF7 / pdb_00007lf7
Title : Fab 6D12 bound to ApoL1 NTD
Authors : Ultsch, M.; Kirchhofer, D.
Deposited on : 2021-01-15
Resolution : 2.03 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

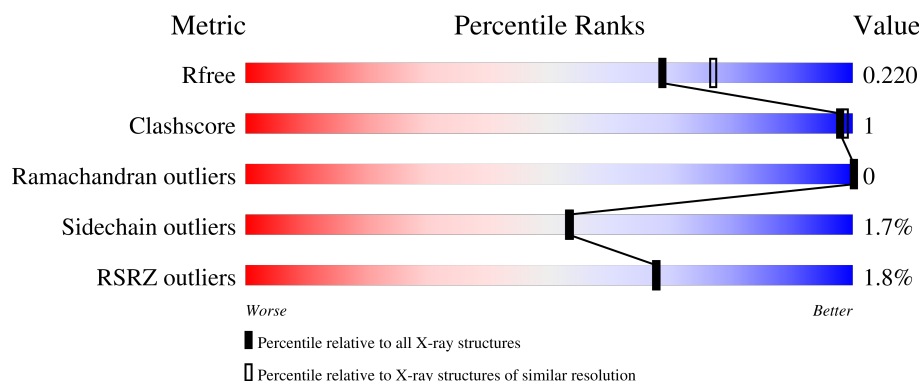
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

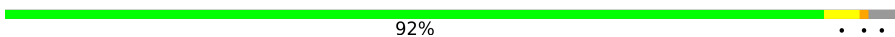
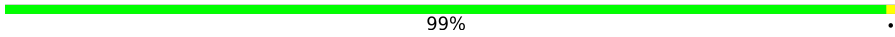
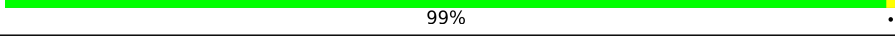
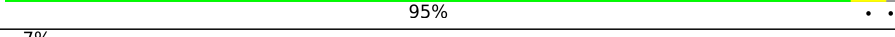
The reported resolution of this entry is 2.03 Å.

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	13299 (2.04-2.00)
Clashscore	190562	1022 (2.02-2.02)
Ramachandran outliers	187476	1014 (2.02-2.02)
Sidechain outliers	187428	1014 (2.02-2.02)
RSRZ outliers	180081	13314 (2.04-2.00)

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	225	 92%
2	B	214	 99%
2	L	214	 99%
3	H	225	 95%
4	K	130	 7% 56% 41%

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Mol	Chain	Length	Quality of chain
4	M	130	6% 58% 40%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 16212 atoms, of which 7842 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 6D12 heavy chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	219	Total	C	H	N	O	S	0	2	0
			3295	1050	1622	280	332	11			

- Molecule 2 is a protein called Fab 6D12 light chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	B	213	Total	C	H	N	O	S	0	1	0
			3276	1047	1619	271	333	6			
2	L	214	Total	C	H	N	O	S	0	3	0
			3293	1053	1624	273	335	8			

- Molecule 3 is a protein called Fab 6D12 heavy chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	H	223	Total	C	H	N	O	S	0	2	0
			3351	1063	1652	284	341	11			

- Molecule 4 is a protein called Apolipoprotein L1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
4	K	77	Total	C	H	N	O	S	0	0	0
			1278	412	634	112	118	2			
4	M	78	Total	C	H	N	O	S	0	0	0
			1300	418	647	114	119	2			

There are 36 discrepancies between the modelled and reference sequences:

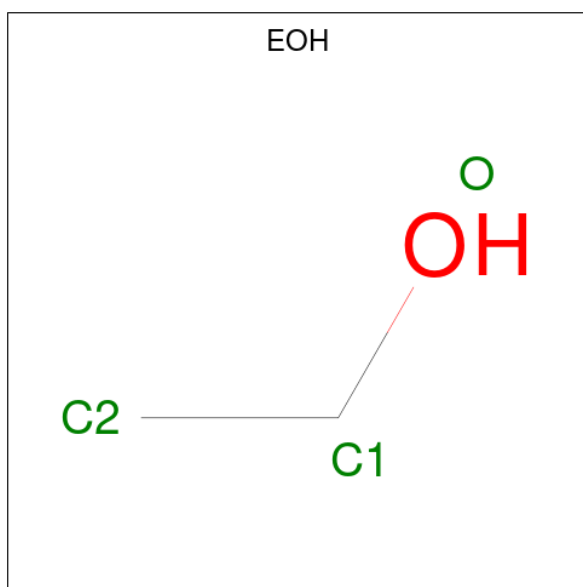
Chain	Residue	Modelled	Actual	Comment	Reference
K	43	MET	-	initiating methionine	UNP O14791
K	44	ASP	-	expression tag	UNP O14791
K	45	TYR	-	expression tag	UNP O14791
K	46	LYS	-	expression tag	UNP O14791

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Chain	Residue	Modelled	Actual	Comment	Reference
K	47	ASP	-	expression tag	UNP O14791
K	48	ASP	-	expression tag	UNP O14791
K	49	ASP	-	expression tag	UNP O14791
K	50	ASP	-	expression tag	UNP O14791
K	51	LYS	-	expression tag	UNP O14791
K	52	GLY	-	expression tag	UNP O14791
K	53	GLU	-	expression tag	UNP O14791
K	54	ASN	-	expression tag	UNP O14791
K	55	LEU	-	expression tag	UNP O14791
K	56	TYR	-	expression tag	UNP O14791
K	57	PHE	-	expression tag	UNP O14791
K	58	GLN	-	expression tag	UNP O14791
K	59	GLY	-	expression tag	UNP O14791
K	60	SER	-	expression tag	UNP O14791
M	43	MET	-	initiating methionine	UNP O14791
M	44	ASP	-	expression tag	UNP O14791
M	45	TYR	-	expression tag	UNP O14791
M	46	LYS	-	expression tag	UNP O14791
M	47	ASP	-	expression tag	UNP O14791
M	48	ASP	-	expression tag	UNP O14791
M	49	ASP	-	expression tag	UNP O14791
M	50	ASP	-	expression tag	UNP O14791
M	51	LYS	-	expression tag	UNP O14791
M	52	GLY	-	expression tag	UNP O14791
M	53	GLU	-	expression tag	UNP O14791
M	54	ASN	-	expression tag	UNP O14791
M	55	LEU	-	expression tag	UNP O14791
M	56	TYR	-	expression tag	UNP O14791
M	57	PHE	-	expression tag	UNP O14791
M	58	GLN	-	expression tag	UNP O14791
M	59	GLY	-	expression tag	UNP O14791
M	60	SER	-	expression tag	UNP O14791

- Molecule 5 is ETHANOL (CCD ID: EOH) (formula: C₂H₆O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	H	O	0	0
			9	2	6	1		
5	L	1	Total	C	H	O	0	0
			9	2	6	1		

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	K	1	Total	C	H	O	0	0
			14	3	8	3		
6	K	1	Total	C	H	O	0	0
			14	3	8	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	M	1	Total	C	H	O	0	0
			14	3	8	3		
6	M	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	72	Total	O	0	0
			72	72		
7	B	86	Total	O	0	0
			86	86		
7	H	85	Total	O	0	0
			85	85		
7	K	4	Total	O	0	0
			4	4		
7	L	94	Total	O	0	0
			94	94		
7	M	4	Total	O	0	0
			4	4		

3 Residue-property plots [i](#)

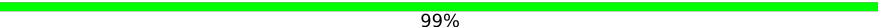
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Fab 6D12 heavy chain

Chain A:  92%



- Molecule 2: Fab 6D12 light chain

Chain B:  99%

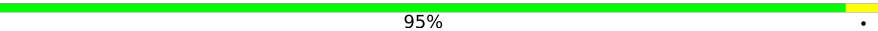


- Molecule 2: Fab 6D12 light chain

Chain L:  99%



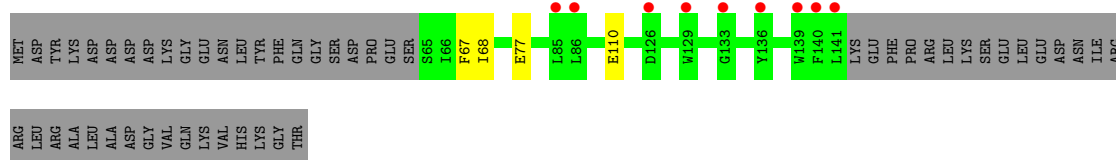
- Molecule 3: Fab 6D12 heavy chain

Chain H:  95%

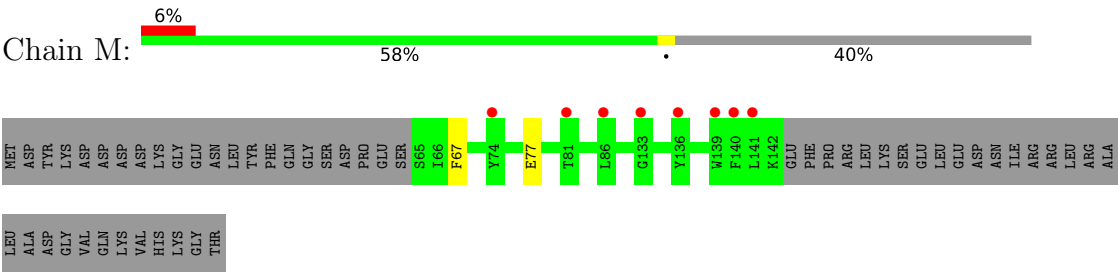


- Molecule 4: Apolipoprotein L1

Chain K:  7% 56% 41%



● Molecule 4: Apolipoprotein L1



4 Data and refinement statistics

Property	Value	Source
Space group	P 43	Depositor
Cell constants a, b, c, α , β , γ	131.10Å 131.10Å 87.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.46 – 2.03 41.46 – 2.03	Depositor EDS
% Data completeness (in resolution range)	80.2 (41.46-2.03) 80.1 (41.46-2.03)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 2.03Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.189 , 0.217 0.195 , 0.220	Depositor DCC
R_{free} test set	3884 reflections (4.05%)	wwPDB-VP
Wilson B-factor (Å ²)	42.1	Xtriage
Anisotropy	0.034	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 35.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.096 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	16212	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.96% 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: CSX, EOH, GOL

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	0.46	2/1710 (0.1%)	0.66	1/2324 (0.0%)
2	B	0.27	0/1694	0.57	0/2298
2	L	0.27	0/1717	0.59	0/2328
3	H	0.30	0/1729	0.60	0/2350
4	K	0.29	0/657	0.63	0/885
4	M	0.27	0/666	0.65	0/896
All	All	0.33	2/8173 (0.0%)	0.61	1/11081 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	157	PRO	N-CA	12.17	1.68	1.47
1	A	156	GLU	C-N	5.01	1.43	1.34

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	157	PRO	CA-N-CD	-7.33	101.23	111.50

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	1673	1622	1633	6	0
2	B	1657	1619	1618	1	0
2	L	1669	1624	1614	1	0
3	H	1699	1652	1655	2	0
4	K	644	634	634	1	0
4	M	653	647	647	0	0
5	B	3	6	6	0	0
5	L	3	6	6	0	0
6	K	12	16	16	0	0
6	M	12	16	16	0	0
7	A	72	0	0	0	0
7	B	86	0	0	0	0
7	H	85	0	0	0	0
7	K	4	0	0	0	0
7	L	94	0	0	0	0
7	M	4	0	0	0	0
All	All	8370	7842	7845	11	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 1.

All (11) 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:157:PRO:N	1:A:157:PRO:CA	1.67	1.34
2:L:105:GLU:OE1	2:L:173:TYR:OH	2.19	0.60
2:B:105:GLU:OE1	2:B:173:TYR:OH	2.20	0.59
1:A:218:LYS:HE3	1:A:220:GLU:OE1	2.05	0.56
4:K:68:ILE:HD11	4:K:110:GLU:HB3	1.91	0.53
1:A:64:VAL:HG13	1:A:68:PHE:HB2	1.97	0.46
1:A:157:PRO:N	1:A:157:PRO:C	2.63	0.43
3:H:64:VAL:HG13	3:H:68:PHE:HB2	2.00	0.43
1:A:151:LYS:NZ	1:A:179:GLN:OE1	2.51	0.42
1:A:209:LYS:N	1:A:210:PRO:CD	2.83	0.41
3:H:209:LYS:N	3:H:210:PRO:CD	2.83	0.41

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	217/225 (96%)	217 (100%)	0	0	100	100
2	B	212/214 (99%)	207 (98%)	5 (2%)	0	100	100
2	L	215/214 (100%)	210 (98%)	5 (2%)	0	100	100
3	H	222/225 (99%)	220 (99%)	2 (1%)	0	100	100
4	K	75/130 (58%)	74 (99%)	1 (1%)	0	100	100
4	M	76/130 (58%)	75 (99%)	1 (1%)	0	100	100
All	All	1017/1138 (89%)	1003 (99%)	14 (1%)	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	191/195 (98%)	187 (98%)	4 (2%)	47	47
2	B	188/188 (100%)	188 (100%)	0	100	100
2	L	191/188 (102%)	191 (100%)	0	100	100
3	H	194/194 (100%)	187 (96%)	7 (4%)	31	26
4	K	67/114 (59%)	65 (97%)	2 (3%)	36	32
4	M	68/114 (60%)	66 (97%)	2 (3%)	37	34
All	All	899/993 (90%)	884 (98%)	15 (2%)	53	53

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	VAL
1	A	151	LYS
1	A	207	ASN
1	A	213	THR
3	H	64	VAL
3	H	139	THR
3	H	151	LYS
3	H	157	PRO
3	H	205	ASN
3	H	207	ASN
3	H	213	THR
4	K	67	PHE
4	K	77	GLU
4	M	67	PHE
4	M	77	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	99	GLN
1	A	200	GLN
1	A	207	ASN
2	B	152	ASN
3	H	39	GLN
3	H	99	GLN
3	H	200	GLN
3	H	207	ASN
4	K	138	ASN
2	L	22	ASN
2	L	37	GLN
2	L	152	ASN
2	L	189	HIS
4	M	134	GLN
4	M	138	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue 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	$\# Z > 2$
3	CSX	H	32	3	3,6,7	0.88	0	1,6,8	0.61	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	CSX	H	32	3	-	0/2/5/7	-

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

6 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	$\# Z > 2$
5	EOH	B	301	-	2,2,2	0.46	0	1,1,1	0.15	0
6	GOL	M	201	-	5,5,5	0.37	0	5,5,5	0.26	0
6	GOL	K	202	-	5,5,5	0.37	0	5,5,5	0.26	0
6	GOL	M	202	-	5,5,5	0.39	0	5,5,5	0.28	0
6	GOL	K	201	-	5,5,5	0.39	0	5,5,5	0.15	0
5	EOH	L	301	-	2,2,2	0.45	0	1,1,1	0.16	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	M	202	-	-	1/4/4/4	-
6	GOL	K	201	-	-	3/4/4/4	-
6	GOL	K	202	-	-	0/4/4/4	-
6	GOL	M	201	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	K	201	GOL	O2-C2-C3-O3
6	K	201	GOL	C1-C2-C3-O3
6	M	201	GOL	C1-C2-C3-O3
6	M	202	GOL	O1-C1-C2-O2
6	K	201	GOL	O1-C1-C2-O2
6	M	201	GOL	O2-C2-C3-O3

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(Å²)	Q<0.9	
1	A	219/225 (97%)	-1.17	0	100	100	20, 53, 97, 122	2 (0%)
2	B	213/214 (99%)	-1.17	0	100	100	35, 57, 98, 134	1 (0%)
2	L	214/214 (100%)	-1.25	0	100	100	24, 52, 86, 119	2 (0%)
3	H	222/225 (98%)	-1.21	1 (0%)	87	87	19, 49, 90, 124	2 (0%)
4	K	77/130 (59%)	0.42	9 (11%)	9	8	53, 133, 180, 192	0
4	M	78/130 (60%)	0.38	8 (10%)	12	11	54, 124, 188, 209	0
All	All	1023/1138 (89%)	-0.96	18 (1%)	67	68	19, 56, 145, 209	7 (0%)

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	K	140	PHE	4.0
4	M	136	TYR	3.8
4	M	140	PHE	3.4
4	M	139	TRP	3.0
4	K	136	TYR	3.0
4	K	129	TRP	3.0
4	K	86	LEU	3.0
4	M	74	TYR	2.8
4	M	141	LEU	2.7
4	K	85	LEU	2.6
4	K	133	GLY	2.6
4	K	139	TRP	2.6
4	K	126	ASP	2.3
3	H	141	GLY	2.2
4	M	133	GLY	2.2
4	K	141	LEU	2.2
4	M	86	LEU	2.2
4	M	81	THR	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. 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	CSX	H	32	7/8	0.98	0.05	45,48,69,83	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(Å ²)	Q<0.9
6	GOL	M	202	6/6	0.93	0.07	76,93,111,111	0
6	GOL	K	202	6/6	0.94	0.07	85,102,111,112	0
6	GOL	K	201	6/6	0.95	0.06	91,110,111,111	0
6	GOL	M	201	6/6	0.96	0.07	73,88,91,92	0
5	EOH	B	301	3/3	0.97	0.10	51,61,67,67	0
5	EOH	L	301	3/3	0.97	0.12	68,81,83,87	0

6.5 Other polymers [i](#)

There are no such residues in this entry.