



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 01:08 PM UTC

PDB ID : 9BLX / pdb_00009blx
Title : Rhesus macaque ITS111.01 Fab in complex with SIV MPER peptide
Authors : Gorman, J.; Ahmadi, M.; Kwong, P.D.
Deposited on : 2024-05-02
Resolution : 1.96 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

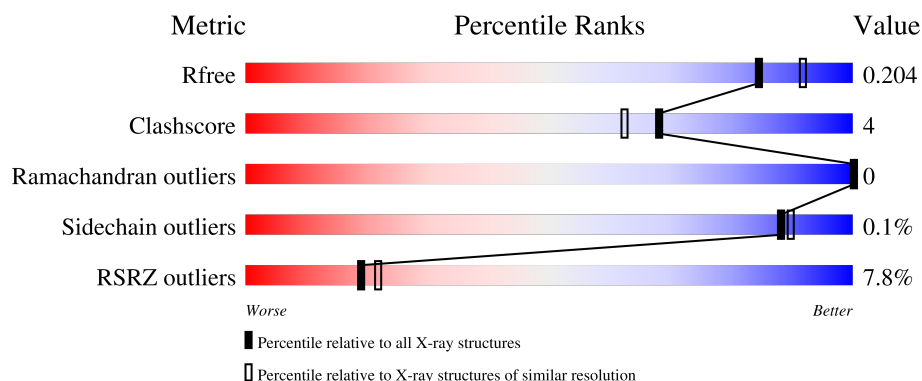
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

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	232	9% 91% 6% .
1	H	232	3% 91% 6% .
2	B	213	15% 90% 9% .
2	L	213	0% 94% 6% .
3	G	27	11% 48% 7% 44%

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Mol	Chain	Length	Quality of chain
3	I	27	15% 52% 44%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 14172 atoms, of which 6763 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 ITS111.01 Heavy.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	H	226	Total	C	H	N	O	S	0	3	0
			3362	1066	1673	283	335	5			
1	A	224	Total	C	H	N	O	S	0	0	0
			3309	1051	1645	280	329	4			

- Molecule 2 is a protein called ITS111.01 Light.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	L	213	Total	C	H	N	O	S	0	1	0
			3231	1031	1584	275	336	5			
2	B	210	Total	C	H	N	O	S	0	0	0
			3177	1016	1557	269	330	5			

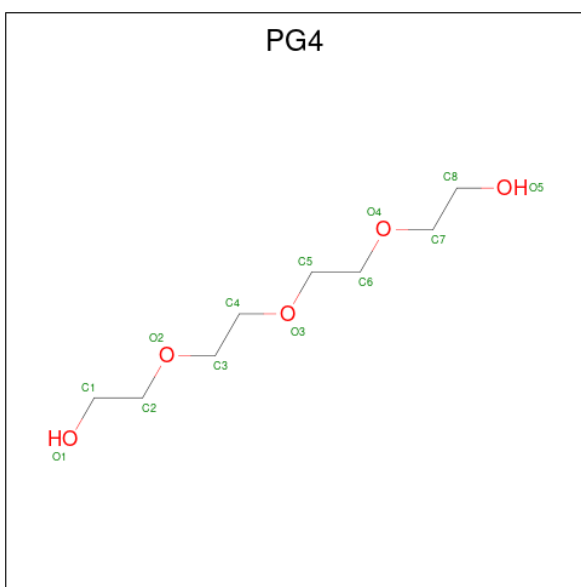
- Molecule 3 is a protein called Envelope glycoprotein gp160.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	I	15	Total	C	H	N	O	0	0	0
			250	89	117	21	23			
3	G	15	Total	C	H	N	O	0	0	0
			250	89	117	21	23			

There are 4 discrepancies between the modelled and reference sequences:

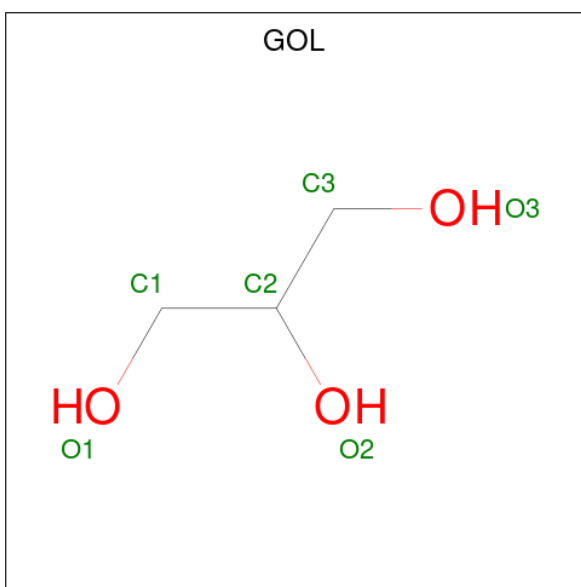
Chain	Residue	Modelled	Actual	Comment	Reference
I	684	ARG	TYR	conflict	UNP A0A4Y5TJX4
I	686	ARG	VAL	conflict	UNP A0A4Y5TJX4
G	684	ARG	TYR	conflict	UNP A0A4Y5TJX4
G	686	ARG	VAL	conflict	UNP A0A4Y5TJX4

- Molecule 4 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: C₈H₁₈O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	H	1	Total	C	H	O	0	0
			31	8	18	5		
4	A	1	Total	C	H	O	0	0
			31	8	18	5		
4	A	1	Total	C	H	O	0	0
			31	8	18	5		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			14	3	8	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	H	O	0	0
			14	3	8	3		

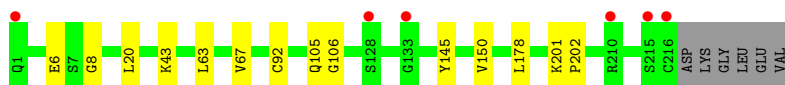
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	108	Total	O	0	0
			108	108		
6	L	141	Total	O	0	0
			141	141		
6	A	108	Total	O	0	0
			108	108		
6	B	104	Total	O	0	0
			104	104		
6	I	6	Total	O	0	0
			6	6		
6	G	5	Total	O	0	0
			5	5		

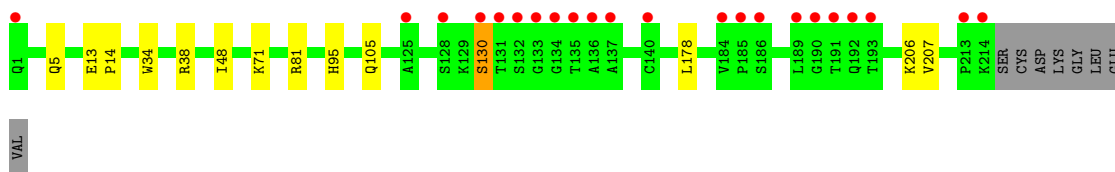
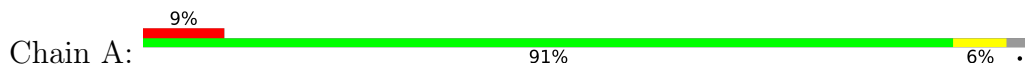
3 Residue-property plots [i](#)

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.

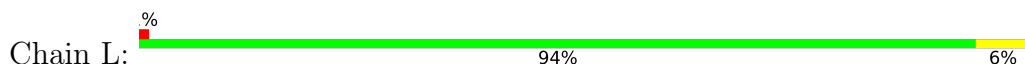
- Molecule 1: ITS111.01 Heavy



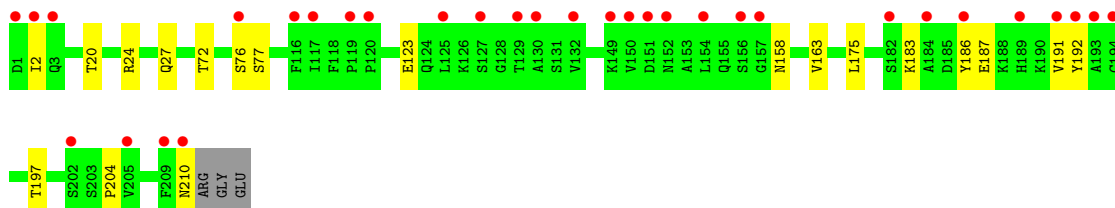
- Molecule 1: ITS111.01 Heavy



- Molecule 2: ITS111.01 Light

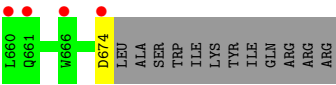


- Molecule 2: ITS111.01 Light

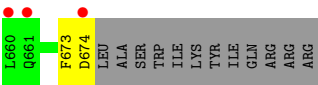


- Molecule 3: Envelope glycoprotein gp160





• Molecule 3: Envelope glycoprotein gp160



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	166.87Å 118.83Å 66.54Å 90.00° 104.70° 90.00°	Depositor
Resolution (Å)	33.94 – 1.96 33.94 – 1.96	Depositor EDS
% Data completeness (in resolution range)	84.9 (33.94-1.96) 84.9 (33.94-1.96)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.27 (at 1.97Å)	Xtriage
Refinement program	PHENIX dev_5278	Depositor
R, R_{free}	0.178 , 0.204 0.178 , 0.204	Depositor DCC
R_{free} test set	2000 reflections (2.23%)	wwPDB-VP
Wilson B-factor (Å ²)	25.2	Xtriage
Anisotropy	0.147	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 46.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	14172	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.33% 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: PG4, 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	0.51	0/1706	0.59	0/2329
1	H	0.56	0/1741	0.64	0/2377
2	B	0.50	0/1658	0.58	0/2256
2	L	0.63	0/1688	0.68	0/2295
3	G	0.65	0/138	0.54	0/187
3	I	0.47	0/138	0.49	0/187
All	All	0.55	0/7069	0.62	0/9631

There are no bond length outliers.

There are no bond angle outliers.

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	1664	1645	1645	14	0
1	H	1689	1673	1663	12	0
2	B	1620	1557	1557	13	0
2	L	1647	1584	1584	7	0
3	G	133	117	117	1	0
3	I	133	117	117	1	0
4	A	26	36	36	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	H	13	18	18	0	0
5	A	6	8	8	0	0
5	B	6	8	8	0	0
6	A	108	0	0	2	0
6	B	104	0	0	1	0
6	G	5	0	0	0	0
6	H	108	0	0	1	0
6	I	6	0	0	0	0
6	L	141	0	0	0	0
All	All	7409	6763	6753	48	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 4.

All (48) 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:H:6[A]:GLU:HG3	1:H:92:CYS:SG	2.30	0.71
2:B:123:GLU:N	2:B:123:GLU:OE1	2.23	0.70
2:B:183:LYS:NZ	2:B:187:GLU:OE2	2.24	0.70
1:A:105:GLN:H	1:A:105:GLN:CD	2.03	0.66
2:B:20:THR:HG23	2:B:72:THR:HG23	1.76	0.65
1:H:6[A]:GLU:CG	1:H:92:CYS:SG	2.85	0.64
1:A:206:LYS:HD3	1:A:206:LYS:C	2.27	0.60
1:A:206:LYS:HD3	1:A:207:VAL:N	2.17	0.60
2:B:24:ARG:NH2	6:B:402:HOH:O	2.36	0.59
2:B:20:THR:HG23	2:B:72:THR:CG2	2.34	0.57
1:H:43:LYS:NZ	6:H:403:HOH:O	2.39	0.56
1:A:5:GLN:CG	1:A:105:GLN:HE22	2.21	0.53
1:A:178:LEU:C	1:A:178:LEU:HD12	2.35	0.52
2:B:186:TYR:O	2:B:192:TYR:OH	2.28	0.52
2:L:125:LEU:HB3	2:L:183:LYS:HZ3	1.75	0.51
1:A:130:SER:O	1:A:130:SER:OG	2.27	0.50
1:A:105:GLN:OE1	1:A:105:GLN:N	2.41	0.49
1:A:81:ARG:HD3	6:A:407:HOH:O	2.13	0.49
2:L:145:LYS:HD2	2:L:197:THR:OG1	2.14	0.48
1:H:201:LYS:N	1:H:202:PRO:CD	2.77	0.48
2:B:197:THR:HG22	2:B:204:PRO:HG3	1.94	0.48
2:B:158:ASN:OD1	2:B:158:ASN:N	2.46	0.47
2:L:184:ALA:O	2:L:188:LYS:HG3	2.14	0.47
2:B:76:SER:O	2:B:77:SER:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:6[A]:GLU:HG2	1:H:92:CYS:SG	2.54	0.46
1:H:201:LYS:HA	1:H:201:LYS:HD2	1.78	0.46
1:H:6[A]:GLU:OE1	1:H:105:GLN:N	2.48	0.46
1:H:178:LEU:C	1:H:178:LEU:HD12	2.41	0.45
2:B:2:ILE:HD13	2:B:27:GLN:HG3	1.98	0.45
1:H:8:GLY:HA3	1:H:20:LEU:HD23	1.99	0.45
2:L:191:VAL:HG22	2:L:210:ASN:OD1	2.17	0.45
1:A:38:ARG:HB3	1:A:48:ILE:HD11	2.00	0.44
3:G:673:PHE:O	3:G:674:ASP:HB2	2.18	0.44
1:H:6[A]:GLU:CD	1:H:106:GLY:H	2.24	0.43
1:H:63:LEU:O	1:H:67[B]:VAL:HG22	2.18	0.43
3:I:674:ASP:OD1	3:I:674:ASP:C	2.62	0.43
1:A:206:LYS:C	1:A:206:LYS:CD	2.89	0.42
1:H:145:TYR:CE1	1:H:150:VAL:HG13	2.54	0.42
1:A:13:GLU:HG2	1:A:14:PRO:HD2	2.01	0.42
1:A:71:LYS:HE3	6:A:495:HOH:O	2.20	0.41
2:B:163:VAL:HG22	2:B:175:LEU:HD12	2.02	0.41
1:A:5:GLN:HG2	1:A:105:GLN:HE22	1.86	0.41
2:L:18:ARG:HD3	2:L:76[B]:SER:OG	2.21	0.41
2:L:40:PRO:HB2	2:L:165:GLU:OE1	2.21	0.41
2:B:191:VAL:HG22	2:B:210:ASN:OD1	2.21	0.41
1:A:34:TRP:HB2	1:A:95:HIS:HB3	2.03	0.40
2:B:183:LYS:NZ	2:B:187:GLU:CD	2.79	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	222/232 (96%)	218 (98%)	4 (2%)	0	100	100
1	H	227/232 (98%)	224 (99%)	3 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	208/213 (98%)	204 (98%)	4 (2%)	0	100	100
2	L	212/213 (100%)	207 (98%)	5 (2%)	0	100	100
3	G	13/27 (48%)	12 (92%)	1 (8%)	0	100	100
3	I	13/27 (48%)	13 (100%)	0	0	100	100
All	All	895/944 (95%)	878 (98%)	17 (2%)	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	191/198 (96%)	190 (100%)	1 (0%)	81	82
1	H	196/198 (99%)	196 (100%)	0	100	100
2	B	185/187 (99%)	185 (100%)	0	100	100
2	L	188/187 (100%)	188 (100%)	0	100	100
3	G	14/25 (56%)	14 (100%)	0	100	100
3	I	14/25 (56%)	14 (100%)	0	100	100
All	All	788/820 (96%)	787 (100%)	1 (0%)	88	90

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	130	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	1	GLN
2	L	37	GLN
2	L	147	GLN

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Mol	Chain	Res	Type
1	A	39	GLN
1	A	105	GLN
1	A	164	HIS
1	A	171	GLN
2	B	38	GLN
2	B	45	ASN
2	B	138	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

5 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	$\# Z > 2$
4	PG4	A	302	-	12,12,12	0.40	0	11,11,11	0.30	0
4	PG4	H	301	-	12,12,12	0.38	0	11,11,11	0.36	0
5	GOL	A	303	-	5,5,5	0.11	0	5,5,5	0.44	0
4	PG4	A	301	-	12,12,12	0.33	0	11,11,11	0.28	0
5	GOL	B	301	-	5,5,5	0.61	0	5,5,5	0.40	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
4	PG4	A	302	-	-	0/10/10/10	-
4	PG4	H	301	-	-	1/10/10/10	-
5	GOL	A	303	-	-	2/4/4/4	-
4	PG4	A	301	-	-	4/10/10/10	-
5	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 (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	301	GOL	C1-C2-C3-O3
5	A	303	GOL	C1-C2-C3-O3
4	A	301	PG4	O3-C5-C6-O4
5	A	303	GOL	O2-C2-C3-O3
5	B	301	GOL	O2-C2-C3-O3
4	A	301	PG4	O1-C1-C2-O2
4	A	301	PG4	O4-C7-C8-O5
4	A	301	PG4	C8-C7-O4-C6
4	H	301	PG4	O1-C1-C2-O2

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 [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	224/232 (96%)	0.17	22 (9%) 13 15	18, 34, 80, 107	0
1	H	226/232 (97%)	-0.15	6 (2%) 56 62	14, 29, 57, 102	2 (0%)
2	B	210/213 (98%)	0.53	32 (15%) 5 6	17, 38, 89, 123	0
2	L	213/213 (100%)	-0.20	3 (1%) 73 79	11, 28, 60, 105	1 (0%)
3	G	15/27 (55%)	0.66	3 (20%) 3 3	23, 30, 77, 87	0
3	I	15/27 (55%)	0.76	4 (26%) 1 1	25, 31, 76, 84	0
All	All	903/944 (95%)	0.10	70 (7%) 19 22	11, 31, 79, 123	3 (0%)

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	I	660	LEU	8.1
2	B	154	LEU	6.0
3	G	660	LEU	5.2
2	L	1	ASP	5.1
1	H	216	CYS	4.8
1	A	131	THR	4.8
2	B	151	ASP	4.6
2	B	209	PHE	4.4
2	B	156	SER	4.3
2	B	125	LEU	3.9
1	A	128	SER	3.9
1	A	189	LEU	3.9
2	B	129	THR	3.6
1	A	193	THR	3.6
2	B	191	VAL	3.5
2	B	189	HIS	3.5
2	B	120	PRO	3.5
1	A	190	GLY	3.5
1	A	140	CYS	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	135	THR	3.3
2	L	2	ILE	3.2
1	A	133	GLY	3.2
2	L	212	GLY	3.2
2	B	184	ALA	3.1
1	H	215	SER	3.1
2	B	130	ALA	3.1
2	B	2	ILE	3.0
2	B	193	ALA	2.9
2	B	157	GLY	2.9
1	A	185	PRO	2.9
3	G	674	ASP	2.9
2	B	194	CYS	2.9
2	B	117	ILE	2.8
1	A	191	THR	2.8
2	B	192	TYR	2.8
3	G	661	GLN	2.8
2	B	149	LYS	2.8
1	A	132	SER	2.6
1	A	213	PRO	2.6
1	A	184	VAL	2.6
2	B	210	ASN	2.6
1	A	192	GLN	2.5
2	B	119	PRO	2.5
3	I	674	ASP	2.5
2	B	1	ASP	2.5
1	A	136	ALA	2.4
2	B	150	VAL	2.4
2	B	182	SER	2.4
2	B	186	TYR	2.3
1	A	214	LYS	2.3
1	A	130	SER	2.3
1	A	186	SER	2.3
2	B	127	SER	2.3
1	H	210	ARG	2.3
1	A	137	ALA	2.3
2	B	202	SER	2.3
3	I	666	TRP	2.2
1	H	133	GLY	2.2
1	A	134	GLY	2.2
2	B	152	ASN	2.1
2	B	132	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	205	VAL	2.1
1	A	1	GLN	2.1
3	I	661	GLN	2.1
2	B	3	GLN	2.1
1	H	128	SER	2.0
1	H	1	GLN	2.0
1	A	125	ALA	2.0
2	B	76	SER	2.0
2	B	116	PHE	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 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
5	GOL	A	303	6/6	0.76	0.17	50,63,72,76	0
5	GOL	B	301	6/6	0.91	0.14	34,43,51,58	0
4	PG4	A	301	13/13	0.93	0.10	39,48,54,61	0
4	PG4	H	301	13/13	0.95	0.09	16,40,64,68	0
4	PG4	A	302	13/13	0.96	0.07	20,39,50,59	0

6.5 Other polymers [i](#)

There are no such residues in this entry.