



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 22, 2020 – 07:46 PM BST

PDB ID : 5LTN
Title : Crystal structure of Lymphocytic choriomeningitis mammarenavirus endonuclease complexed with DPBA
Authors : Saez-Ayala, M.; Yekwa, E.L.; Canard, B.; Alvarez, K.; Ferron, F.
Deposited on : 2016-09-07
Resolution : 1.88 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 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 : 2.13.1
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) : 2.13.1

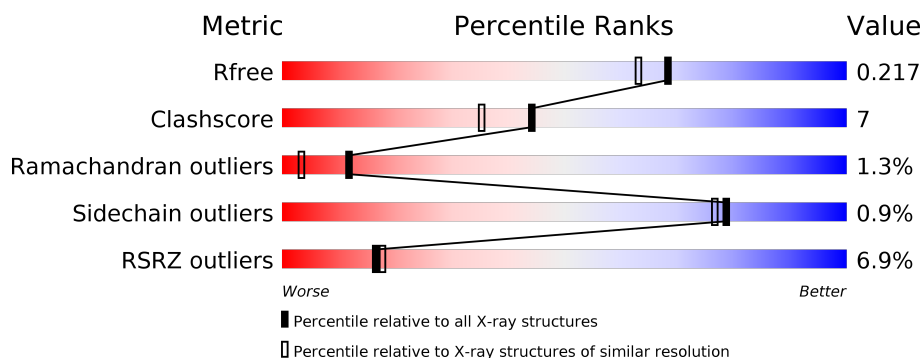
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.88 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	9470 (1.90-1.86)
Clashscore	141614	10282 (1.90-1.86)
Ramachandran outliers	138981	10152 (1.90-1.86)
Sidechain outliers	138945	10152 (1.90-1.86)
RSRZ outliers	127900	9303 (1.90-1.86)

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 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	204	<div> <div>7%</div> <div> <div></div> <div>80%</div> <div>10%</div> <div>10%</div> </div> </div>
1	B	204	<div> <div>6%</div> <div> <div></div> <div>82%</div> <div>11%</div> <div>5%</div> </div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GOL	B	204	-	-	X	-

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 3353 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 RNA-directed RNA polymerase L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	183	Total	C	N	O	S	0	3	0
			1492	946	246	290	10			
1	B	194	Total	C	N	O	S	6	1	0
			1572	998	258	306	10			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	MET	-	initiating methionine	UNP A0A059U381
A	-6	LYS	-	expression tag	UNP A0A059U381
A	-5	HIS	-	expression tag	UNP A0A059U381
A	-4	HIS	-	expression tag	UNP A0A059U381
A	-3	HIS	-	expression tag	UNP A0A059U381
A	-2	HIS	-	expression tag	UNP A0A059U381
A	-1	HIS	-	expression tag	UNP A0A059U381
A	0	HIS	-	expression tag	UNP A0A059U381
A	173	ASP	ASN	conflict	UNP A0A059U381
B	-7	MET	-	initiating methionine	UNP A0A059U381
B	-6	LYS	-	expression tag	UNP A0A059U381
B	-5	HIS	-	expression tag	UNP A0A059U381
B	-4	HIS	-	expression tag	UNP A0A059U381
B	-3	HIS	-	expression tag	UNP A0A059U381
B	-2	HIS	-	expression tag	UNP A0A059U381
B	-1	HIS	-	expression tag	UNP A0A059U381
B	0	HIS	-	expression tag	UNP A0A059U381
B	173	ASP	ASN	conflict	UNP A0A059U381

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	2	Total	Mg	0	0
			2	2		

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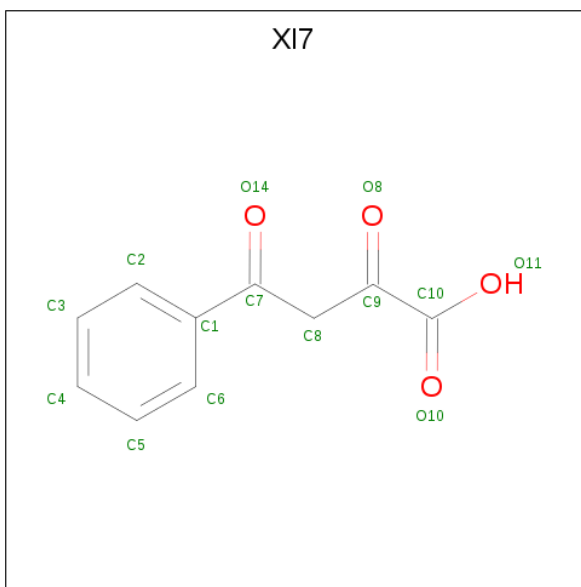
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Mg	0	0
			2	2		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 4 is 2-4-DIOXO-4-PHENYLBUTANOIC ACID (three-letter code: XI7) (formula: $C_{10}H_8O_4$).

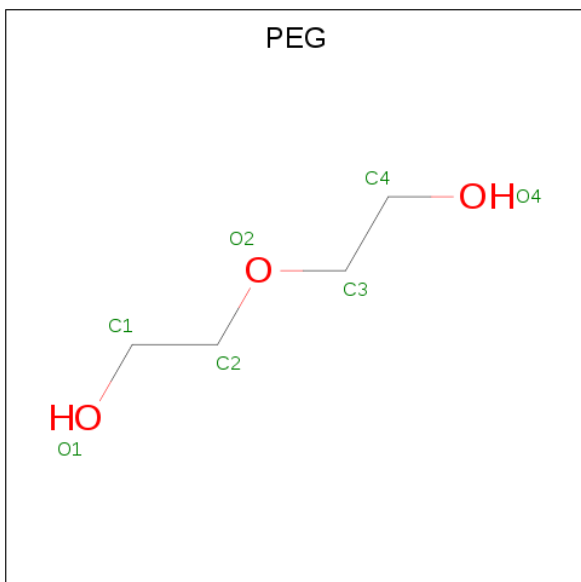


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	C O	1	0
			14	10 4		

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			7	4	3		
6	A	1	Total	C	O	0	0
			7	4	3		

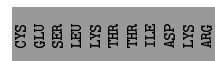
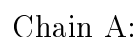
- Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	2	Total	Na	0	0
			2	2		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	118	Total	O	0	0
			118	118		
8	B	111	Total	O	0	0
			111	111		

- Molecule 1: RNA-directed RNA polymerase L



- Chain B:



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	107.19Å 107.19Å 53.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	53.59 – 1.88 53.59 – 1.88	Depositor EDS
% Data completeness (in resolution range)	99.7 (53.59-1.88) 99.7 (53.59-1.88)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.60 (at 1.88Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.190 , 0.216 0.191 , 0.217	Depositor DCC
R_{free} test set	2457 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	37.5	Xtriage
Anisotropy	0.198	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 54.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.029 for h,-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3353	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.15% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, MG, CL, NA, XI7, PEG

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	0.50	0/1526	0.64	0/2059
1	B	0.50	0/1601	0.63	1/2160 (0.0%)
All	All	0.50	0/3127	0.64	1/4219 (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

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	143	ARG	NE-CZ-NH1	-5.13	117.73	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	180	SER	Peptide

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	1492	0	1489	17	0
1	B	1572	0	1571	20	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	12	0	16	1	0
3	B	12	0	16	5	4
4	A	14	0	7	3	0
5	A	1	0	0	1	0
5	B	1	0	0	0	0
6	A	14	0	20	2	0
7	A	2	0	0	0	0
8	A	118	0	0	10	6
8	B	111	0	0	4	2
All	All	3353	0	3119	41	6

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 (41) 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:153:GLU:OE1	3:B:204:GOL:C3	2.22	0.87
1:A:102:CYS:O	8:A:301:HOH:O	1.95	0.83
1:A:88:ASP:OD1	8:A:301:HOH:O	1.97	0.83
1:A:181:GLU:OE1	8:A:302:HOH:O	1.97	0.81
1:B:153:GLU:OE1	3:B:204:GOL:H31	1.82	0.79
1:A:126[A]:ARG:NH2	5:A:206:CL:CL	2.53	0.79
1:B:153:GLU:OE1	3:B:204:GOL:H32	1.83	0.78
4:A:205:XI7:O11	8:A:301:HOH:O	2.06	0.72
4:A:205:XI7:O8	8:A:303:HOH:O	2.06	0.72
1:B:56:LYS:NZ	8:B:305:HOH:O	2.25	0.68
1:A:63:HIS:CD2	3:A:204:GOL:H11	2.33	0.64
1:B:101:GLU:OE2	8:B:301:HOH:O	2.17	0.57
1:B:188:SER:O	1:B:190:LYS:N	2.44	0.51
1:A:178:GLU:HA	1:A:181:GLU:OE2	2.13	0.49
6:A:207:PEG:H22	8:A:402:HOH:O	2.13	0.48
1:A:147:ASP:HB2	8:A:403:HOH:O	2.14	0.47
1:B:22:SER:OG	8:B:302:HOH:O	2.20	0.47
1:B:67:SER:HA	1:B:86:ILE:HD13	1.96	0.46
1:B:153:GLU:OE2	3:B:204:GOL:H11	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:171:ASN:O	1:B:175:LYS:HG2	2.15	0.46
1:B:187:GLU:O	1:B:190:LYS:HE3	2.16	0.46
1:A:178:GLU:HA	1:A:181:GLU:CD	2.36	0.46
1:A:7:LEU:HB3	1:A:28:PHE:HZ	1.80	0.46
1:A:127:GLU:HG3	8:A:371:HOH:O	2.13	0.46
1:B:69:GLU:O	1:B:73:VAL:HG13	2.16	0.45
1:B:83:PRO:HD2	1:B:125:ILE:HG22	1.98	0.44
1:A:179:GLU:OE1	1:A:179:GLU:N	2.51	0.43
1:B:79:CYS:HB3	1:B:82:LEU:HD21	2.00	0.43
1:A:50:GLU:OE2	4:A:205:X17:O10	2.35	0.43
1:B:188:SER:C	1:B:190:LYS:N	2.72	0.43
1:B:153:GLU:OE2	3:B:204:GOL:C1	2.66	0.43
1:B:191:THR:O	8:B:303:HOH:O	2.21	0.42
1:A:10:LEU:HD11	1:A:158:LYS:HD3	2.00	0.42
1:A:181:GLU:O	1:A:182:TYR:HB2	2.20	0.41
1:B:47:ARG:HB2	1:B:47:ARG:HE	1.60	0.41
1:A:174:GLU:O	1:A:178:GLU:N	2.48	0.41
1:B:43:LYS:HA	1:B:43:LYS:HD2	1.72	0.41
1:A:95:ASN:HA	6:A:208:PEG:H22	2.03	0.41
1:B:112:GLU:O	1:B:116:ILE:HG12	2.21	0.41
1:A:18:ASP:OD2	8:A:307:HOH:O	2.22	0.40

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:204:GOL:C2	8:A:373:HOH:O[2_455]	0.86	1.34
3:B:204:GOL:O2	8:A:373:HOH:O[2_455]	1.07	1.13
3:B:204:GOL:C3	8:A:373:HOH:O[2_455]	1.38	0.82
3:B:204:GOL:O3	8:A:373:HOH:O[2_455]	1.79	0.41
8:A:356:HOH:O	8:B:319:HOH:O[2_454]	1.99	0.21
8:A:381:HOH:O	8:B:323:HOH:O[2_455]	2.09	0.11

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	184/204 (90%)	179 (97%)	5 (3%)	0	100	100
1	B	193/204 (95%)	184 (95%)	4 (2%)	5 (3%)	5	1
All	All	377/408 (92%)	363 (96%)	9 (2%)	5 (1%)	12	3

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	82	LEU
1	B	81	GLY
1	B	189	LEU
1	B	190	LYS
1	B	80	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	172/190 (90%)	171 (99%)	1 (1%)	86	86
1	B	181/190 (95%)	179 (99%)	2 (1%)	73	70
All	All	353/380 (93%)	350 (99%)	3 (1%)	78	80

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	52	ASP
1	B	43	LYS
1	B	82	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 15 ligands modelled in this entry, 8 are monoatomic - leaving 7 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	$\# Z > 2$
4	XI7	A	205	2	11,14,14	0.56	0	13,18,18	2.43	5 (38%)
6	PEG	A	208	7	6,6,6	0.38	0	5,5,5	0.30	0
3	GOL	A	204	-	5,5,5	0.58	0	5,5,5	1.42	1 (20%)
3	GOL	A	203	-	5,5,5	0.33	0	5,5,5	0.82	0
3	GOL	B	203	-	5,5,5	0.33	0	5,5,5	0.31	0
6	PEG	A	207	-	6,6,6	0.49	0	5,5,5	0.48	0
3	GOL	B	204	-	5,5,5	0.30	0	5,5,5	0.57	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	XI7	A	205	2	-	1/8/12/12	0/1/1/1
6	PEG	A	208	7	-	1/4/4/4	-
3	GOL	A	204	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	A	203	-	-	4/4/4/4	-
3	GOL	B	203	-	-	2/4/4/4	-
6	PEG	A	207	-	-	2/4/4/4	-
3	GOL	B	204	-	-	0/4/4/4	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	205	XI7	O14-C7-C8	4.34	125.45	120.56
4	A	205	XI7	C2-C1-C6	4.22	124.59	118.59
4	A	205	XI7	O14-C7-C1	-3.54	115.73	120.74
4	A	205	XI7	C5-C6-C1	-3.07	116.71	120.34
3	A	204	GOL	O2-C2-C3	2.40	119.69	109.12
4	A	205	XI7	C7-C8-C9	-2.15	104.87	114.90

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	204	GOL	O1-C1-C2-C3
3	A	203	GOL	O1-C1-C2-C3
3	A	204	GOL	O2-C2-C3-O3
3	A	204	GOL	C1-C2-C3-O3
3	A	203	GOL	C1-C2-C3-O3
3	B	203	GOL	C1-C2-C3-O3
3	A	203	GOL	O1-C1-C2-O2
3	B	203	GOL	O2-C2-C3-O3
3	A	203	GOL	O2-C2-C3-O3
4	A	205	XI7	C7-C8-C9-C10
6	A	207	PEG	C1-C2-O2-C3
6	A	208	PEG	C1-C2-O2-C3
3	A	204	GOL	O1-C1-C2-O2
6	A	207	PEG	C4-C3-O2-C2

There are no ring outliers.

5 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	205	XI7	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	208	PEG	1	0
3	A	204	GOL	1	0
6	A	207	PEG	1	0
3	B	204	GOL	5	4

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	183/204 (89%)	0.47	14 (7%)	13 14	30, 44, 87, 115	4 (2%)
1	B	194/204 (95%)	0.33	12 (6%)	20 22	28, 44, 83, 116	0
All	All	377/408 (92%)	0.40	26 (6%)	16 18	28, 44, 86, 116	4 (1%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	179	GLU	5.8
1	A	180	SER	5.3
1	A	177	PHE	5.0
1	B	78	VAL	4.8
1	B	82	LEU	4.7
1	A	78	VAL	3.9
1	A	172	GLN	3.7
1	A	182	TYR	3.7
1	A	73	VAL	3.6
1	A	80	PRO	3.4
1	B	84	LEU	3.3
1	A	169	TYR	3.1
1	B	80	PRO	3.0
1	B	193	ILE	2.9
1	B	81	GLY	2.8
1	B	83	PRO	2.8
1	A	176	VAL	2.7
1	A	175	LYS	2.6
1	B	72	LEU	2.6
1	B	79	CYS	2.5
1	B	192	THR	2.4
1	B	76	GLY	2.3
1	A	77	ILE	2.1
1	A	76	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	181	GLU	2.0
1	B	129	LEU	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	GOL	B	204	6/6	0.65	0.34	67,67,67,67	6
6	PEG	A	207	7/7	0.66	0.17	70,74,83,84	0
5	CL	A	206	1/1	0.78	0.14	112,112,112,112	0
3	GOL	A	204	6/6	0.79	0.18	43,50,62,62	0
3	GOL	B	203	6/6	0.80	0.11	69,82,88,89	0
2	MG	B	201	1/1	0.80	0.14	72,72,72,72	0
2	MG	B	202	1/1	0.81	0.19	60,60,60,60	0
2	MG	A	202	1/1	0.88	0.11	42,42,42,42	0
6	PEG	A	208	7/7	0.88	0.17	77,77,90,95	0
7	NA	A	210	1/1	0.88	0.10	81,81,81,81	0
7	NA	A	209	1/1	0.88	0.18	89,89,89,89	0
3	GOL	A	203	6/6	0.92	0.14	41,50,53,54	6
4	XI7	A	205	14/14	0.93	0.16	24,54,58,58	6
5	CL	B	205	1/1	0.95	0.12	78,78,78,78	0
2	MG	A	201	1/1	0.99	0.09	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.