



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 10:28 am BST

PDB ID : 6JOZ
Title : Crystal structure of BRLF peptide from EBV in complex with HLA-A1101.
Authors : Huan, X.; Xiao, Z.; Tadwal, V.S.; Ren, E.C.
Deposited on : 2019-03-25
Resolution : 1.35 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 : 2.11
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) : 2.11

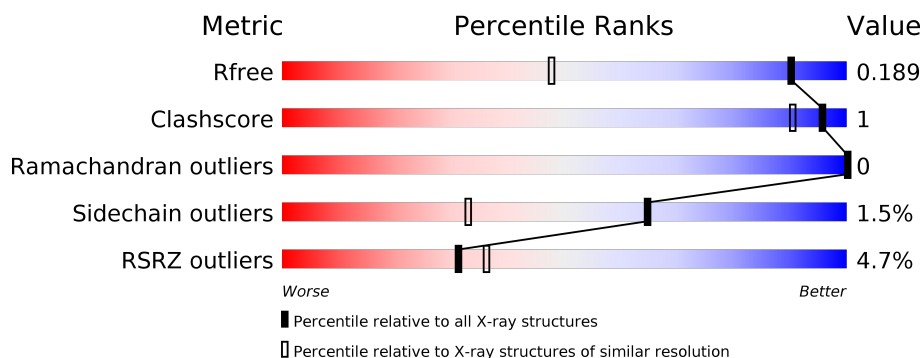
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.35 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	1509 (1.38-1.34)
Clashscore	141614	1551 (1.38-1.34)
Ramachandran outliers	138981	1530 (1.38-1.34)
Sidechain outliers	138945	1530 (1.38-1.34)
RSRZ outliers	127900	1487 (1.38-1.34)

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	275	<div> <div>5%</div> <div> <div></div> <div>87%</div> <div>11%</div> </div> </div>
2	B	99	<div> <div>4%</div> <div> <div></div> <div>88%</div> <div>12%</div> </div> </div>
3	C	9	<div> <div></div> <div> <div>67%</div> <div>33%</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
4	GOL	A	305	-	X	X	-

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3725 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 HLA class I histocompatibility antigen, A-11 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	274	Total	C	N	O	S	0	6	0
			2268	1408	416	435	9			

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	99	Total	C	N	O	S	0	1	0
			831	529	140	159	3			

- Molecule 3 is a protein called ALA-THR-ILE-GLY-THR-ALA-MET-TYR-LYS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	9	Total	C	N	O	S	0	0	0
			66	42	10	13	1			

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

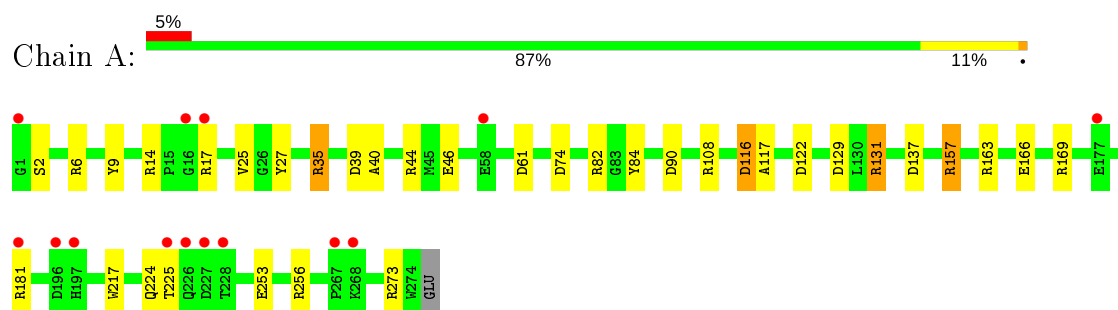
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	365	Total O 365 365	0	0
5	B	142	Total O 142 142	0	0
5	C	11	Total O 11 11	0	0

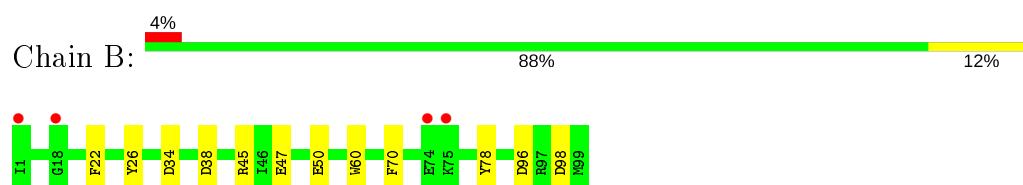
3 Residue-property plots

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.

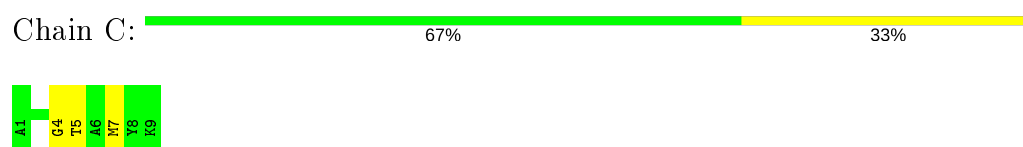
- Molecule 1: HLA class I histocompatibility antigen, A-11 alpha chain



- Molecule 2: Beta-2-microglobulin



- Molecule 3: ALA-THR-ILE-GLY-THR-ALA-MET-TYR-LYS



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.40 Å 72.93 Å 125.70 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	63.08 – 1.35 29.74 – 1.35	Depositor EDS
% Data completeness (in resolution range)	96.9 (63.08-1.35) 96.9 (29.74-1.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.75 (at 1.35 Å)	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.160 , 0.189 0.161 , 0.189	Depositor DCC
R_{free} test set	4969 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	13.8	Xtriage
Anisotropy	0.087	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 46.5	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	0.97	EDS
Total number of atoms	3725	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.30% 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: 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	1.41	12/2347 (0.5%)	1.46	32/3184 (1.0%)
2	B	1.49	7/858 (0.8%)	1.38	4/1160 (0.3%)
3	C	1.86	3/66 (4.5%)	1.45	2/86 (2.3%)
All	All	1.44	22/3271 (0.7%)	1.44	38/4430 (0.9%)

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

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	217	TRP	CG-CD1	10.33	1.51	1.36
3	C	7	MET	SD-CE	-7.51	1.35	1.77
3	C	5	THR	CB-CG2	-7.38	1.27	1.52
2	B	22	PHE	CG-CD1	-7.21	1.27	1.38
1	A	46	GLU	CD-OE2	-7.16	1.17	1.25
2	B	47	GLU	CD-OE1	6.95	1.33	1.25
2	B	26	TYR	CE1-CZ	-6.94	1.29	1.38
1	A	122	ASP	CB-CG	-6.35	1.38	1.51
1	A	2	SER	CA-CB	-6.13	1.43	1.52
1	A	27	TYR	CE1-CZ	-5.92	1.30	1.38
1	A	256	ARG	CZ-NH1	-5.84	1.25	1.33
2	B	45	ARG	NE-CZ	-5.79	1.25	1.33
1	A	25	VAL	CB-CG2	-5.64	1.41	1.52
2	B	98	ASP	CB-CG	5.58	1.63	1.51
2	B	78	TYR	CE1-CZ	-5.32	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	50	GLU	CA-CB	-5.27	1.42	1.53
1	A	40	ALA	C-O	-5.12	1.13	1.23
1	A	225	THR	C-O	-5.12	1.13	1.23
1	A	166	GLU	CD-OE1	5.11	1.31	1.25
1	A	217	TRP	CD1-NE1	-5.04	1.29	1.38
1	A	2	SER	CB-OG	5.04	1.48	1.42
3	C	7	MET	CG-SD	-5.02	1.68	1.81

All (38) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	108	ARG	NE-CZ-NH2	-15.08	112.76	120.30
1	A	273	ARG	NE-CZ-NH1	11.96	126.28	120.30
1	A	108	ARG	NE-CZ-NH1	11.70	126.15	120.30
2	B	34	ASP	CB-CG-OD2	-11.16	108.26	118.30
1	A	157[A]	ARG	NE-CZ-NH2	-9.93	115.34	120.30
1	A	157[B]	ARG	NE-CZ-NH2	-9.93	115.34	120.30
2	B	96	ASP	CB-CG-OD2	-9.64	109.62	118.30
1	A	273	ARG	NE-CZ-NH2	-8.62	115.99	120.30
1	A	131	ARG	NE-CZ-NH1	8.58	124.59	120.30
1	A	122	ASP	CB-CG-OD1	8.11	125.60	118.30
1	A	44	ARG	NE-CZ-NH2	-7.83	116.38	120.30
1	A	46	GLU	OE1-CD-OE2	-7.61	114.17	123.30
1	A	84	TYR	CB-CG-CD1	7.30	125.38	121.00
1	A	157[A]	ARG	NE-CZ-NH1	7.29	123.94	120.30
1	A	157[B]	ARG	NE-CZ-NH1	7.29	123.94	120.30
1	A	163	ARG	NE-CZ-NH1	-7.00	116.80	120.30
1	A	39	ASP	CB-CG-OD1	6.86	124.47	118.30
3	C	4	GLY	O-C-N	-6.78	111.86	122.70
1	A	90	ASP	CB-CG-OD2	-6.64	112.33	118.30
1	A	129	ASP	CB-CG-OD1	6.63	124.27	118.30
1	A	84	TYR	CB-CG-CD2	-6.40	117.16	121.00
2	B	45	ARG	NE-CZ-NH2	-6.32	117.14	120.30
1	A	74	ASP	CB-CG-OD1	6.25	123.93	118.30
1	A	253	GLU	OE1-CD-OE2	-6.22	115.83	123.30
1	A	35	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	A	217	TRP	CD1-NE1-CE2	5.96	114.36	109.00
1	A	122	ASP	OD1-CG-OD2	-5.95	111.99	123.30
1	A	224	GLN	CA-CB-CG	-5.76	100.72	113.40
1	A	61	ASP	CB-CG-OD1	5.73	123.46	118.30
1	A	169	ARG	NE-CZ-NH1	5.62	123.11	120.30
1	A	82	ARG	NE-CZ-NH2	-5.61	117.50	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	9	TYR	CB-CG-CD2	-5.37	117.78	121.00
2	B	38	ASP	CB-CG-OD1	5.28	123.05	118.30
3	C	7	MET	CG-SD-CE	5.27	108.63	100.20
1	A	14	ARG	NE-CZ-NH2	5.26	122.93	120.30
1	A	14	ARG	NE-CZ-NH1	-5.19	117.70	120.30
1	A	116	ASP	CB-CG-OD1	5.17	122.95	118.30
1	A	137	ASP	CB-CG-OD1	5.16	122.94	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	6	ARG	Sidechain

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	2268	0	2124	6	0
2	B	831	0	795	1	0
3	C	66	0	71	0	0
4	A	30	0	36	5	0
4	B	6	0	7	0	0
4	C	6	0	8	0	0
5	A	365	0	0	0	0
5	B	142	0	0	0	0
5	C	11	0	0	0	0
All	All	3725	0	3041	6	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 (6) 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:131:ARG:HE	4:A:305:GOL:H12	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:ARG:HH21	4:A:305:GOL:C3	2.17	0.56
1:A:157[A]:ARG:NH2	4:A:305:GOL:C3	2.72	0.52
1:A:131:ARG:NE	4:A:305:GOL:H12	2.23	0.45
1:A:131:ARG:HE	4:A:305:GOL:C1	2.21	0.44
1:A:117:ALA:HB2	2:B:60:TRP:CE2	2.55	0.42

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	278/275 (101%)	277 (100%)	1 (0%)	0	100	100
2	B	98/99 (99%)	97 (99%)	1 (1%)	0	100	100
3	C	7/9 (78%)	7 (100%)	0	0	100	100
All	All	383/383 (100%)	381 (100%)	2 (0%)	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	237/232 (102%)	233 (98%)	4 (2%)	60	28
2	B	95/94 (101%)	94 (99%)	1 (1%)	73	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	C	6/6 (100%)	6 (100%)	0	100	100
All	All	338/332 (102%)	333 (98%)	5 (2%)	65	33

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	ARG
1	A	35	ARG
1	A	116	ASP
1	A	181	ARG
2	B	70	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	174	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

7 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	GOL	A	303	-	5,5,5	0.73	0	5,5,5	2.49	2 (40%)
4	GOL	A	304	-	5,5,5	1.24	1 (20%)	5,5,5	0.87	0
4	GOL	C	101	-	5,5,5	1.23	1 (20%)	5,5,5	0.58	0
4	GOL	A	305	-	5,5,5	2.91	2 (40%)	5,5,5	1.52	1 (20%)
4	GOL	B	101	-	5,5,5	1.18	0	5,5,5	1.75	1 (20%)
4	GOL	A	301	-	5,5,5	0.86	0	5,5,5	0.23	0
4	GOL	A	302	-	5,5,5	0.85	0	5,5,5	1.03	1 (20%)

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	GOL	A	303	-	-	1/4/4/4	-
4	GOL	A	304	-	-	2/4/4/4	-
4	GOL	C	101	-	-	0/4/4/4	-
4	GOL	A	305	-	-	4/4/4/4	-
4	GOL	B	101	-	-	2/4/4/4	-
4	GOL	A	301	-	-	0/4/4/4	-
4	GOL	A	302	-	-	3/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	305	GOL	C3-C2	-5.53	1.29	1.51
4	A	305	GOL	C1-C2	-3.08	1.39	1.51
4	C	101	GOL	O2-C2	2.47	1.50	1.43
4	A	304	GOL	O2-C2	2.46	1.50	1.43

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	303	GOL	C3-C2-C1	4.87	130.63	111.70
4	A	305	GOL	O3-C3-C2	3.31	126.06	110.20
4	B	101	GOL	O2-C2-C1	-2.75	97.00	109.12
4	A	303	GOL	O2-C2-C1	-2.61	97.62	109.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	302	GOL	O2-C2-C3	-2.05	100.09	109.12

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	305	GOL	O1-C1-C2-C3
4	B	101	GOL	O1-C1-C2-C3
4	A	304	GOL	C1-C2-C3-O3
4	A	305	GOL	C1-C2-C3-O3
4	A	302	GOL	O1-C1-C2-C3
4	A	302	GOL	C1-C2-C3-O3
4	A	304	GOL	O2-C2-C3-O3
4	A	305	GOL	O1-C1-C2-O2
4	A	305	GOL	O2-C2-C3-O3
4	B	101	GOL	O1-C1-C2-O2
4	A	302	GOL	O2-C2-C3-O3
4	A	303	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	305	GOL	5	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	274/275 (99%)	0.26	14 (5%) 28 31	9, 13, 28, 53	0
2	B	99/99 (100%)	0.18	4 (4%) 38 43	9, 16, 31, 37	0
3	C	9/9 (100%)	0.06	0 100 100	10, 11, 18, 22	0
All	All	382/383 (99%)	0.23	18 (4%) 31 36	9, 14, 29, 53	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	227	ASP	5.4
1	A	226	GLN	4.8
1	A	16	GLY	4.8
1	A	228	THR	4.2
1	A	1	GLY	4.1
1	A	267	PRO	3.6
1	A	181	ARG	3.5
1	A	177	GLU	3.4
1	A	17	ARG	3.4
1	A	58	GLU	2.8
1	A	268	LYS	2.6
1	A	225	THR	2.5
2	B	1	ILE	2.4
1	A	197	HIS	2.3
2	B	74	GLU	2.3
2	B	75	LYS	2.2
2	B	18	GLY	2.1
1	A	196	ASP	2.0

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

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

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. 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(\AA^2)	Q<0.9
4	GOL	A	302	6/6	0.72	0.17	24,32,40,50	0
4	GOL	A	304	6/6	0.88	0.13	21,25,26,30	0
4	GOL	A	305	6/6	0.89	0.18	12,22,33,35	0
4	GOL	A	303	6/6	0.91	0.14	28,30,35,44	0
4	GOL	B	101	6/6	0.92	0.13	17,21,24,25	0
4	GOL	C	101	6/6	0.94	0.12	14,17,23,25	0
4	GOL	A	301	6/6	0.97	0.08	10,11,11,12	0

6.5 Other polymers [i](#)

There are no such residues in this entry.