



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 20, 2020 – 03:29 PM BST

PDB ID : 4JGE
Title : Crystal structure of red fluorescent gene-engineered variant with improved folding - lanRFP_delS83 (Branchiostoma lanceolatum)
Authors : Pletnev, V.Z.; Pletneva, N.V.; Pletnev, S.V.
Deposited on : 2013-03-01
Resolution : 1.94 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

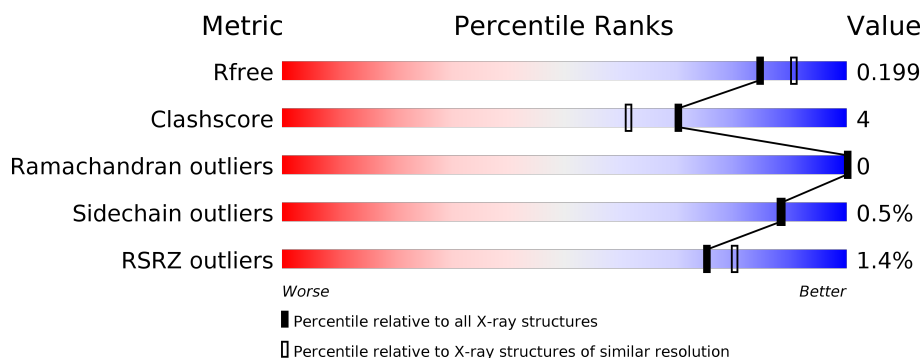
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.94 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	4310 (1.96-1.92)
Clashscore	141614	1023 (1.94-1.94)
Ramachandran outliers	138981	1007 (1.94-1.94)
Sidechain outliers	138945	1007 (1.94-1.94)
RSRZ outliers	127900	4250 (1.96-1.92)

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	226	<div> <div>%</div> <div> <div></div> <div>83%</div> <div>12%</div> <div>• •</div> </div> </div>
1	B	226	<div> <div>%</div> <div> <div></div> <div>86%</div> <div>9%</div> <div>• •</div> </div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4015 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 Red fluorescent protein bFP-R5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	4	0
			1762	1131	298	325	8			
1	B	217	Total	C	N	O	S	0	1	0
			1752	1123	298	323	8			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-6	HIS	-	EXPRESSION TAG	UNP B1PND0
A	-5	HIS	-	EXPRESSION TAG	UNP B1PND0
A	-4	HIS	-	EXPRESSION TAG	UNP B1PND0
A	-3	HIS	-	EXPRESSION TAG	UNP B1PND0
A	-2	HIS	-	EXPRESSION TAG	UNP B1PND0
A	-1	HIS	-	EXPRESSION TAG	UNP B1PND0
A	0	GLY	-	EXPRESSION TAG	UNP B1PND0
A	1	SER	MET	ENGINEERED MUTATION	UNP B1PND0
A	58	CR2	GLY	CHROMOPHORE	UNP B1PND0
A	58	CR2	TYR	CHROMOPHORE	UNP B1PND0
A	58	CR2	GLY	CHROMOPHORE	UNP B1PND0
B	-6	HIS	-	EXPRESSION TAG	UNP B1PND0
B	-5	HIS	-	EXPRESSION TAG	UNP B1PND0
B	-4	HIS	-	EXPRESSION TAG	UNP B1PND0
B	-3	HIS	-	EXPRESSION TAG	UNP B1PND0
B	-2	HIS	-	EXPRESSION TAG	UNP B1PND0
B	-1	HIS	-	EXPRESSION TAG	UNP B1PND0
B	0	GLY	-	EXPRESSION TAG	UNP B1PND0
B	1	SER	MET	ENGINEERED MUTATION	UNP B1PND0
B	58	CR2	GLY	CHROMOPHORE	UNP B1PND0
B	58	CR2	TYR	CHROMOPHORE	UNP B1PND0
B	58	CR2	GLY	CHROMOPHORE	UNP B1PND0

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

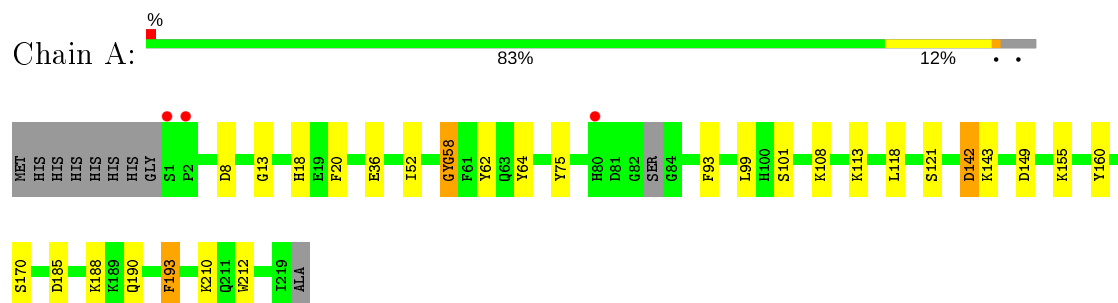
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	237	Total	O	0	0
			237	237		
3	B	258	Total	O	0	0
			258	258		

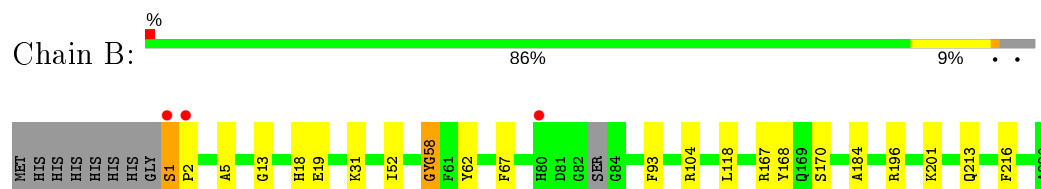
3 Residue-property plots [i](#)

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: Red fluorescent protein blFP-R5



- Molecule 1: Red fluorescent protein blFP-R5



4 Data and refinement statistics

Property	Value	Source
Space group	P 64 2 2	Depositor
Cell constants a, b, c, α , β , γ	133.76 Å 133.76 Å 156.96 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	22.76 – 1.94 22.76 – 1.94	Depositor EDS
% Data completeness (in resolution range)	97.0 (22.76-1.94) 97.0 (22.76-1.94)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 1.93 Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.156 , 0.198 0.156 , 0.199	Depositor DCC
R_{free} test set	1211 reflections (2.02%)	wwPDB-VP
Wilson B-factor (Å ²)	19.5	Xtriage
Anisotropy	0.024	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 45.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4015	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.91% 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: CR2, 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	1.54	13/1808 (0.7%)	1.14	7/2445 (0.3%)
1	B	1.54	8/1785 (0.4%)	1.15	1/2414 (0.0%)
All	All	1.54	21/3593 (0.6%)	1.14	8/4859 (0.2%)

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	190	GLN	CB-CG	-5.84	1.36	1.52
1	B	168	TYR	CD1-CE1	5.83	1.48	1.39
1	B	67	PHE	CD2-CE2	5.79	1.50	1.39
1	A	193	PHE	CE2-CZ	5.74	1.48	1.37
1	A	155	LYS	CB-CG	5.67	1.67	1.52
1	A	143	LYS	CD-CE	5.58	1.65	1.51
1	A	210	LYS	CD-CE	5.46	1.65	1.51
1	A	101	SER	CA-CB	5.44	1.61	1.52
1	B	31	LYS	CD-CE	5.38	1.64	1.51
1	A	121	SER	CA-CB	5.36	1.60	1.52
1	A	64	TYR	CE2-CZ	5.32	1.45	1.38
1	A	20	PHE	CE2-CZ	5.26	1.47	1.37
1	A	75	TYR	CG-CD1	5.22	1.46	1.39
1	A	160	TYR	CG-CD2	5.20	1.46	1.39
1	A	36	GLU	CD-OE2	-5.16	1.20	1.25
1	B	19	GLU	CB-CG	5.11	1.61	1.52
1	B	167	ARG	CG-CD	5.11	1.64	1.51
1	B	184	ALA	CA-CB	5.09	1.63	1.52
1	A	212	TRP	CE3-CZ3	5.07	1.47	1.38
1	B	216	PHE	CE2-CZ	5.05	1.47	1.37
1	B	5	ALA	CA-CB	5.02	1.62	1.52

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	185	ASP	CB-CG-OD1	5.76	123.48	118.30
1	A	210	LYS	CD-CE-NZ	-5.56	98.92	111.70
1	A	142	ASP	CB-CG-OD2	-5.52	113.33	118.30
1	A	142	ASP	CB-CG-OD1	5.46	123.22	118.30
1	A	99	LEU	CB-CG-CD2	-5.28	102.02	111.00
1	A	149	ASP	CB-CG-OD1	5.27	123.04	118.30
1	A	8	ASP	CB-CA-C	-5.07	100.26	110.40
1	B	201	LYS	CD-CE-NZ	-5.06	100.06	111.70

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	1762	0	1682	8	0
1	B	1752	0	1669	17	0
2	A	6	0	8	0	0
3	A	237	0	0	1	0
3	B	258	0	0	1	0
All	All	4015	0	3359	25	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 (25) 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:1:SER:HB2	1:B:2:PRO:CD	1.75	1.17
1:B:1:SER:HB2	1:B:2:PRO:HD3	1.46	0.95
1:B:196:ARG:HE	1:B:213:GLN:HE21	1.19	0.91
1:B:1:SER:CB	1:B:2:PRO:HD3	2.00	0.91
1:B:1:SER:CB	1:B:2:PRO:CD	2.48	0.91
1:B:1:SER:HB2	1:B:2:PRO:HD2	1.59	0.81
1:A:108:LYS:HE2	1:A:113:LYS:HD2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1:SER:HB3	1:B:2:PRO:HD3	1.81	0.61
1:B:18:HIS:HB2	3:B:465:HOH:O	2.03	0.58
1:B:104:ARG:HH11	1:B:104:ARG:HG2	1.69	0.56
1:A:18[B]:HIS:ND1	3:A:517:HOH:O	2.27	0.55
1:A:58:CR2:HD1	1:A:58:CR2:N2	2.27	0.49
1:A:93:PHE:CD2	1:A:170:SER:HB3	2.47	0.49
1:A:58:CR2:C2	1:A:62:TYR:CZ	2.97	0.48
1:B:58:CR2:N2	1:B:58:CR2:HD1	2.30	0.46
1:B:13:GLY:HA3	1:B:118:LEU:O	2.17	0.45
1:A:13:GLY:HA3	1:A:118:LEU:O	2.16	0.44
1:B:52:ILE:HA	1:B:52:ILE:HD12	1.91	0.43
1:B:104:ARG:NH1	1:B:104:ARG:HG2	2.34	0.43
1:B:52:ILE:HD11	1:B:93:PHE:CZ	2.54	0.42
1:B:196:ARG:HE	1:B:213:GLN:NE2	2.01	0.41
1:B:93:PHE:CD2	1:B:170:SER:HB3	2.56	0.41
1:A:142:ASP:O	1:A:193:PHE:HA	2.22	0.40
1:A:52:ILE:HD12	1:A:52:ILE:HA	1.85	0.40
1:B:58:CR2:C2	1:B:62:TYR:CZ	3.05	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	215/226 (95%)	213 (99%)	2 (1%)	0	100	100
1	B	213/226 (94%)	212 (100%)	1 (0%)	0	100	100
All	All	428/452 (95%)	425 (99%)	3 (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	188/192 (98%)	187 (100%)	1 (0%)	88	88
1	B	185/192 (96%)	184 (100%)	1 (0%)	88	88
All	All	373/384 (97%)	371 (100%)	2 (0%)	88	88

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	188	LYS
1	B	1	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	18	HIS
1	B	213	GLN

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
1	CR2	B	58	1	20,20,21	1.33	5 (25%)	25,27,29	2.43	9 (36%)
1	CR2	A	58	1	20,20,21	1.55	4 (20%)	25,27,29	3.45	12 (48%)

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
1	CR2	B	58	1	-	0/6/25/26	0/2/2/2
1	CR2	A	58	1	-	0/6/25/26	0/2/2/2

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	58	CR2	OH-CZ	-3.76	1.28	1.37
1	A	58	CR2	C1-N2	-2.78	1.27	1.32
1	A	58	CR2	CA2-C2	2.68	1.51	1.48
1	B	58	CR2	CA3-N3	-2.67	1.42	1.47
1	B	58	CR2	CB2-CA2	-2.27	1.33	1.35
1	B	58	CR2	C1-N2	-2.25	1.28	1.32
1	B	58	CR2	O2-C2	-2.21	1.18	1.23
1	A	58	CR2	O2-C2	-2.19	1.18	1.23
1	B	58	CR2	OH-CZ	-2.09	1.32	1.37

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	CR2	O2-C2-CA2	10.25	136.72	130.96
1	B	58	CR2	O2-C2-CA2	-8.61	126.12	130.96
1	A	58	CR2	CA2-C2-N3	-6.00	100.53	103.37
1	A	58	CR2	CE1-CD1-CG2	-5.47	114.12	121.25
1	A	58	CR2	CD2-CE2-CZ	-5.41	113.94	119.88
1	A	58	CR2	CD1-CE1-CZ	5.38	125.78	119.88
1	A	58	CR2	CE2-CD2-CG2	3.75	126.13	121.25
1	B	58	CR2	CG2-CB2-CA2	-3.53	125.62	129.94
1	B	58	CR2	CB2-CA2-C2	3.36	126.29	122.28
1	A	58	CR2	CB2-CA2-C2	3.35	126.27	122.28
1	A	58	CR2	CG2-CB2-CA2	-3.18	126.05	129.94
1	B	58	CR2	O2-C2-N3	3.11	130.52	124.35
1	A	58	CR2	CB2-CA2-N2	-2.98	124.69	128.83
1	A	58	CR2	O3-C3-CA3	-2.77	118.02	126.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	CR2	C2-N3-C1	2.65	109.28	107.99
1	B	58	CR2	CB2-CA2-N2	-2.55	125.30	128.83
1	B	58	CR2	CA3-N3-C1	2.40	131.17	127.86
1	B	58	CR2	CE1-CD1-CG2	-2.31	118.24	121.25
1	B	58	CR2	O3-C3-CA3	-2.29	119.48	126.39
1	A	58	CR2	N3-C1-N2	2.12	114.30	111.76
1	B	58	CR2	N3-C1-N2	2.11	114.29	111.76

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	58	CR2	2	0
1	A	58	CR2	2	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand 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	$\# Z > 2$
2	GOL	A	301	-	5,5,5	0.67	0	5,5,5	1.34	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
2	GOL	A	301	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	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 [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	215/226 (95%)	-0.48	3 (1%) 75 80	12, 18, 32, 48	0
1	B	216/226 (95%)	-0.58	3 (1%) 75 80	12, 16, 30, 54	0
All	All	431/452 (95%)	-0.53	6 (1%) 75 80	12, 17, 31, 54	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1	SER	4.2
1	A	1	SER	3.2
1	B	80	HIS	2.3
1	B	2	PRO	2.2
1	A	80	HIS	2.1
1	A	2	PRO	2.0

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
1	CR2	B	58	19/20	0.97	0.10	11,14,17,18	0
1	CR2	A	58	19/20	0.97	0.09	11,15,19,20	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands

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
2	GOL	A	301	6/6	0.91	0.12	29,33,35,36	0

6.5 Other polymers

There are no such residues in this entry.