



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 06:35 AM GMT

PDB ID : 2XM1
Title : BTGH84 IN COMPLEX WITH N-ACETYL GLUCONOLACTAM
Authors : He, Y.; Davies, G.J.
Deposited on : 2010-07-22
Resolution : 2.00 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

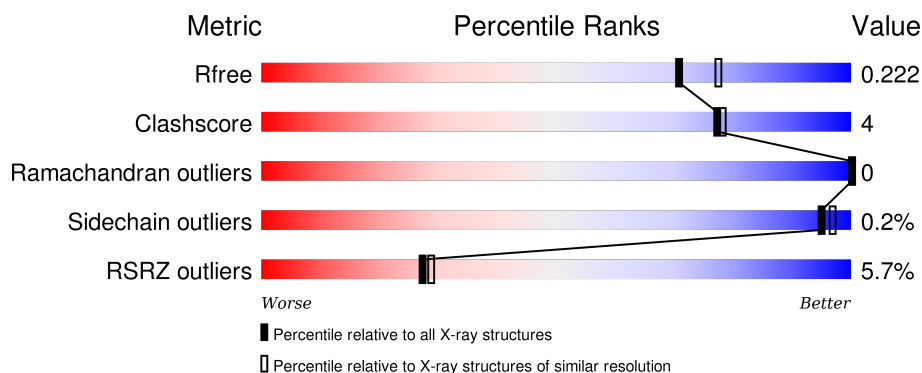
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 2.00 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}	91344	6249 (2.00-2.00)
Clashscore	102246	7340 (2.00-2.00)
Ramachandran outliers	100387	7248 (2.00-2.00)
Sidechain outliers	100360	7247 (2.00-2.00)
RSRZ outliers	91569	6262 (2.00-2.00)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	716	 4% 83% 7% 10%
1	B	716	 6% 84% 6% 10%

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
2	GOL	A	1716	-	-	-	X
2	GOL	A	1718	-	-	-	X
2	GOL	B	1717	-	-	-	X
2	GOL	B	1718	-	-	-	X

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 11613 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 O-GLCNACASE BT_4395.

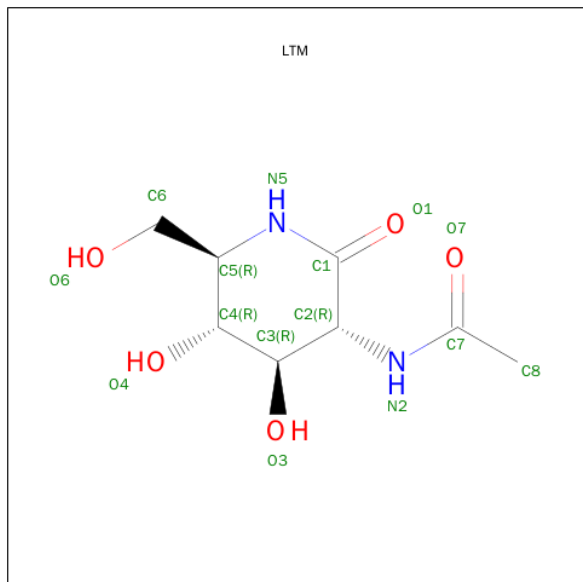
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	645	Total	C	N	O	S	0	7	0
			5277	3388	887	982	20			
1	B	643	Total	C	N	O	S	0	3	0
			5237	3360	881	977	19			

- 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		
2	A	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is SUGAR (N-ACETYL GLUCONOLACTAM) (three-letter code: LTM) (formula: $C_8H_{14}N_2O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			15	8	2	5		
3	B	1	Total	C	N	O	0	0
			15	8	2	5		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	527	Total	O	0	0
			527	527		
4	B	518	Total	O	0	0
			518	518		

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	51.40Å 94.08Å 99.46Å 104.70° 94.02° 102.92°	Depositor
Resolution (Å)	47.84 – 2.00 47.67 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.4 (47.84-2.00) 88.4 (47.67-2.00)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.00 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.180 , 0.220 0.185 , 0.222	Depositor DCC
R_{free} test set	5719 reflections (5.25%)	DCC
Wilson B-factor (Å ²)	21.5	Xtriage
Anisotropy	0.032	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 48.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 114566 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	11613	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.87% 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, 0.375 respectively for untwinned datasets, and 0.333, 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, LTM

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	0.65	0/5429	0.60	0/7350
1	B	0.64	0/5376	0.61	0/7282
All	All	0.64	0/10805	0.61	0/14632

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

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	5277	0	5216	39	0
1	B	5237	0	5164	38	0
2	A	12	0	16	0	0
2	B	12	0	16	0	0
3	A	15	0	14	0	0
3	B	15	0	14	0	0
4	A	527	0	0	7	0
4	B	518	0	0	3	0
All	All	11613	0	10440	77	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 (77) 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:441[B]:MET:HG2	4:A:2393:HOH:O	1.57	1.04
1:A:519:ARG:HH21	1:A:519:ARG:CG	1.90	0.83
1:A:454:PHE:HZ	1:A:572:VAL:HG12	1.44	0.83
1:B:454:PHE:HZ	1:B:572:VAL:CG1	1.93	0.81
1:A:593:HIS:HD2	1:A:636:ASP:H	1.36	0.73
1:B:454:PHE:CZ	1:B:572:VAL:HG13	2.23	0.72
1:B:454:PHE:HZ	1:B:572:VAL:HG12	1.55	0.70
1:B:15:GLN:HG3	1:B:118:GLU:HG2	1.71	0.70
1:A:454:PHE:CZ	1:A:572:VAL:HG12	2.27	0.69
1:B:454:PHE:CZ	1:B:572:VAL:CG1	2.75	0.69
1:A:519:ARG:HG2	1:A:519:ARG:HH21	1.58	0.68
1:B:604:ASN:N	4:B:2496:HOH:O	2.28	0.66
1:A:444:GLN:HB3	1:A:445:PRO:HD3	1.77	0.65
1:B:536:GLN:HG2	1:B:590:TYR:CD1	2.34	0.62
1:B:439:GLU:H	1:B:441[B]:MET:HE3	1.66	0.60
1:B:593:HIS:HD2	1:B:636:ASP:H	1.49	0.60
1:B:51:SER:OG	1:B:52:LYS:N	2.34	0.60
1:A:454:PHE:CZ	1:A:572:VAL:CG1	2.84	0.60
1:A:519:ARG:HG3	1:A:519:ARG:NH2	2.16	0.59
1:A:593:HIS:HE1	4:A:2493:HOH:O	1.86	0.58
1:A:519:ARG:NH2	1:A:519:ARG:CG	2.54	0.58
1:B:355:VAL:O	1:B:399:THR:HG23	2.03	0.57
1:A:340:PHE:O	1:A:371:THR:OG1	2.25	0.55
1:B:454:PHE:HZ	1:B:572:VAL:HG13	1.61	0.55
1:A:50:SER:HB2	4:A:2022:HOH:O	2.07	0.54
1:B:340:PHE:O	1:B:371:THR:OG1	2.26	0.54
1:B:26:GLN:HE21	1:B:52:LYS:HA	1.75	0.52
1:A:87:GLU:CD	1:A:87:GLU:H	2.15	0.50
1:B:23:ALA:HA	1:B:48:LYS:HD2	1.92	0.50
1:A:331:LYS:NZ	4:A:2314:HOH:O	2.43	0.50
1:B:593:HIS:CD2	1:B:636:ASP:H	2.30	0.49
1:A:593:HIS:CD2	1:A:636:ASP:H	2.23	0.49
1:A:708:GLN:N	4:A:2520:HOH:O	2.46	0.49
1:B:354:PRO:HB2	1:B:399:THR:HG22	1.93	0.49
1:A:125:PRO:HB3	1:A:392:TRP:CE3	2.48	0.48
1:A:581:ASN:HB3	4:A:2484:HOH:O	2.13	0.48
1:B:308:MET:HA	1:B:335:TYR:O	2.13	0.48
1:A:23:ALA:HA	1:A:48:LYS:HG3	1.94	0.47
1:B:173:ALA:HA	1:B:174:PRO:HA	1.62	0.47
1:A:557:ALA:HB1	1:A:561:ILE:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:ILE:O	1:A:265:PHE:HB3	2.15	0.46
1:A:454:PHE:CE2	1:A:572:VAL:HG13	2.51	0.46
1:A:519:ARG:HG3	1:A:519:ARG:HH21	1.70	0.45
1:A:536:GLN:HG2	1:A:590:TYR:CD1	2.50	0.45
1:B:98:ARG:HG2	1:B:102:TYR:CE2	2.52	0.45
1:A:224:ALA:O	1:A:228[B]:LYS:HG2	2.18	0.44
1:B:608:GLN:HB2	1:B:615:LEU:CD1	2.48	0.44
1:A:25:TYR:CE2	1:A:50:SER:HB3	2.53	0.44
1:A:420:CYS:HA	1:A:423[A]:MET:HE3	2.00	0.44
1:A:591:MET:HG3	1:A:593:HIS:O	2.18	0.43
1:B:536:GLN:HG2	1:B:590:TYR:CE1	2.53	0.43
1:A:340:PHE:CG	1:A:341:PRO:HA	2.53	0.43
1:A:461:ASP:HB2	4:A:2412:HOH:O	2.18	0.43
1:B:693:ARG:HG2	4:B:2510:HOH:O	2.18	0.43
1:A:81:TYR:CZ	1:A:123:ASP:HB3	2.53	0.43
1:A:308:MET:HA	1:A:335:TYR:O	2.19	0.42
1:B:608:GLN:HB2	1:B:615:LEU:HD11	2.00	0.42
1:B:340:PHE:CG	1:B:341:PRO:HA	2.54	0.42
1:B:527:LYS:HA	1:B:527:LYS:HE2	2.02	0.42
1:B:21:LEU:HD12	1:B:22:PRO:HD2	2.01	0.42
1:A:238:ALA:HA	1:A:276:VAL:O	2.20	0.42
1:B:470:TYR:OH	4:B:2418:HOH:O	2.21	0.41
1:B:613:ARG:HG3	1:B:613:ARG:HH11	1.85	0.41
1:B:238:ALA:HA	1:B:276:VAL:O	2.20	0.41
1:B:557:ALA:HB1	1:B:561:ILE:HB	2.02	0.41
1:B:536:GLN:HG2	1:B:590:TYR:CG	2.56	0.41
1:B:532:LYS:HD2	1:B:532:LYS:HA	1.93	0.41
1:A:647:ASN:CB	1:A:708:GLN:HG2	2.51	0.41
1:B:613:ARG:HG3	1:B:613:ARG:NH1	2.36	0.41
1:B:25:TYR:CZ	1:B:45:LEU:HD13	2.55	0.41
1:B:354:PRO:HB2	1:B:399:THR:CG2	2.51	0.40
1:A:605:LEU:HA	1:A:606:PRO:HD3	1.97	0.40
1:A:498:TRP:CD1	1:A:554:VAL:HG13	2.57	0.40
1:A:393:ASN:HD21	1:A:396:LYS:NZ	2.19	0.40
1:B:615:LEU:C	1:B:615:LEU:HD12	2.42	0.40
1:A:170:TYR:HB2	1:A:180:TYR:CE1	2.57	0.40
1:B:356:TYR:HB3	1:B:399:THR:HG21	2.03	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	640/716 (89%)	618 (97%)	22 (3%)	0	100	100
1	B	634/716 (88%)	617 (97%)	17 (3%)	0	100	100
All	All	1274/1432 (89%)	1235 (97%)	39 (3%)	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	575/630 (91%)	574 (100%)	1 (0%)	95	97
1	B	569/630 (90%)	568 (100%)	1 (0%)	95	97
All	All	1144/1260 (91%)	1142 (100%)	2 (0%)	95	97

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

Mol	Chain	Res	Type
1	A	11	GLN
1	B	519	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	26	GLN

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Mol	Chain	Res	Type
1	A	189	GLN
1	A	349	HIS
1	A	393	ASN
1	A	425	ASN
1	A	593	HIS
1	B	26	GLN
1	B	254	GLN
1	B	274	GLN
1	B	306	GLN
1	B	459	ASN
1	B	543	GLN
1	B	593	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

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	$\# Z > 2$
2	GOL	A	1716	-	5,5,5	0.37	0	5,5,5	0.43	0
3	LTM	A	1717	-	14,15,15	1.00	1 (7%)	11,21,21	2.02	3 (27%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	A	1718	-	5,5,5	0.39	0	5,5,5	0.29	0
3	LTM	B	1716	-	14,15,15	0.96	1 (7%)	11,21,21	1.96	3 (27%)
2	GOL	B	1717	-	5,5,5	0.39	0	5,5,5	0.34	0
2	GOL	B	1718	-	5,5,5	0.37	0	5,5,5	0.26	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	1716	-	-	0/4/4/4	0/0/0/0
3	LTM	A	1717	-	-	0/6/26/26	0/1/1/1
2	GOL	A	1718	-	-	0/4/4/4	0/0/0/0
3	LTM	B	1716	-	-	0/6/26/26	0/1/1/1
2	GOL	B	1717	-	-	0/4/4/4	0/0/0/0
2	GOL	B	1718	-	-	0/4/4/4	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	1716	LTM	C1-N5	2.15	1.37	1.33
3	A	1717	LTM	C1-N5	2.71	1.37	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1716	LTM	O1-C1-N5	-4.64	116.63	122.77
3	A	1717	LTM	O1-C1-N5	-4.50	116.81	122.77
3	A	1717	LTM	C2-N2-C7	-2.94	118.20	122.12
3	A	1717	LTM	C3-C4-C5	-2.91	106.70	111.23
3	B	1716	LTM	C3-C4-C5	-2.66	107.09	111.23
3	B	1716	LTM	C2-N2-C7	-2.39	118.94	122.12

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	645/716 (90%)	-0.05	32 (4%) 32 34	11, 21, 47, 61	0
1	B	643/716 (89%)	-0.07	41 (6%) 23 24	10, 20, 52, 64	0
All	All	1288/1432 (89%)	-0.06	73 (5%) 27 29	10, 21, 49, 64	0

All (73) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	49	GLN	5.5
1	A	24	VAL	5.0
1	A	54	GLY	5.0
1	B	680	LEU	4.9
1	A	694	PHE	4.9
1	A	47	GLY	4.8
1	A	23	ALA	4.7
1	B	47	GLY	4.6
1	B	646	ILE	4.1
1	B	693	ARG	4.0
1	A	52	LYS	3.9
1	A	51	SER	3.9
1	A	454	PHE	3.9
1	A	53	LYS	3.8
1	B	52	LYS	3.8
1	B	682	ALA	3.7
1	B	49	GLN	3.7
1	B	53	LYS	3.6
1	B	24	VAL	3.6
1	B	21	LEU	3.5
1	B	54	GLY	3.5
1	B	16	ASN	3.5
1	B	454	PHE	3.4
1	A	46	SER	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	51	SER	3.4
1	A	680	LEU	3.3
1	B	631	VAL	3.2
1	B	694	PHE	3.2
1	A	50	SER	3.1
1	B	286	TRP	3.0
1	B	683	GLY	3.0
1	B	46	SER	3.0
1	A	113	ASP	2.9
1	A	648	PHE	2.9
1	B	605	LEU	2.9
1	A	48	LYS	2.9
1	A	583	HIS	2.9
1	A	25	TYR	2.8
1	B	681	SER	2.8
1	B	457	GLY	2.8
1	A	692	VAL	2.7
1	A	456	GLU	2.7
1	B	113	ASP	2.7
1	A	681	SER	2.7
1	B	709	PHE	2.7
1	B	23	ALA	2.7
1	A	21	LEU	2.7
1	B	685	GLN	2.6
1	B	618	PRO	2.6
1	B	595	MET	2.6
1	B	50	SER	2.5
1	A	22	PRO	2.4
1	B	645	GLN	2.4
1	A	693	ARG	2.3
1	B	22	PRO	2.3
1	B	684	LEU	2.3
1	B	638	ILE	2.3
1	B	644	ILE	2.3
1	B	87	GLU	2.3
1	B	583	HIS	2.3
1	B	88	LYS	2.2
1	A	682	ALA	2.2
1	A	252[A]	GLN	2.2
1	A	685	GLN	2.2
1	B	688	PRO	2.2
1	A	87	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	617	SER	2.1
1	A	581	ASN	2.1
1	A	45	LEU	2.1
1	A	709	PHE	2.1
1	B	710	VAL	2.0
1	B	640	PRO	2.0
1	A	55	MET	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 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	GOL	B	1717	6/6	0.94	0.13	4.34	35,36,36,37	0
2	GOL	A	1716	6/6	0.89	0.15	4.10	33,38,39,44	0
2	GOL	A	1718	6/6	0.92	0.13	2.97	36,39,40,41	0
2	GOL	B	1718	6/6	0.84	0.14	2.17	59,60,60,61	0
3	LTM	A	1717	15/15	0.97	0.11	0.13	13,15,16,18	0
3	LTM	B	1716	15/15	0.97	0.10	-0.07	11,13,15,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.