



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2018 – 07:29 pm GMT

PDB ID : 3KLK
Title : Crystal structure of Lactobacillus reuteri N-terminally truncated glucansucrase GTF180 in triclinic apo- form
Authors : Vujicic-Zagar, A.; Pijning, T.; Kralj, S.; Eeuwema, W.; Dijkhuizen, L.; Dijkstra, B.W.
Deposited on : 2009-11-08
Resolution : 1.65 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 : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk31020
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk31020

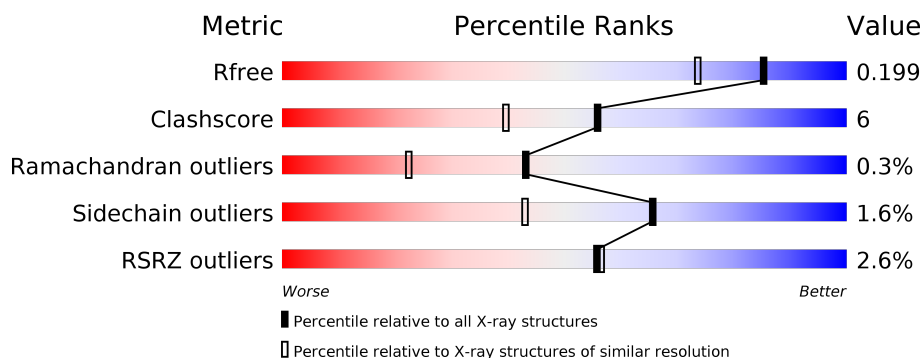
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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}	111664	1521 (1.66-1.66)
Clashscore	122126	1616 (1.66-1.66)
Ramachandran outliers	120053	1584 (1.66-1.66)
Sidechain outliers	120020	1584 (1.66-1.66)
RSRZ outliers	108989	1487 (1.66-1.66)

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	1039	<div> <div>3%</div> <div>88%</div> <div>8%</div> <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	A	1779	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9091 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 Glucansucrase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1006	Total	C	N	O	S	0	1	0
			7987	4994	1354	1618	21			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	740	MET	-	EXPRESSION TAG	UNP Q5SBN3
A	741	GLY	-	EXPRESSION TAG	UNP Q5SBN3
A	1674	LEU	PHE	SEE REMARK 999	UNP Q5SBN3
A	1773	HIS	-	EXPRESSION TAG	UNP Q5SBN3
A	1774	HIS	-	EXPRESSION TAG	UNP Q5SBN3
A	1775	HIS	-	EXPRESSION TAG	UNP Q5SBN3
A	1776	HIS	-	EXPRESSION TAG	UNP Q5SBN3
A	1777	HIS	-	EXPRESSION TAG	UNP Q5SBN3
A	1778	HIS	-	EXPRESSION TAG	UNP Q5SBN3

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		

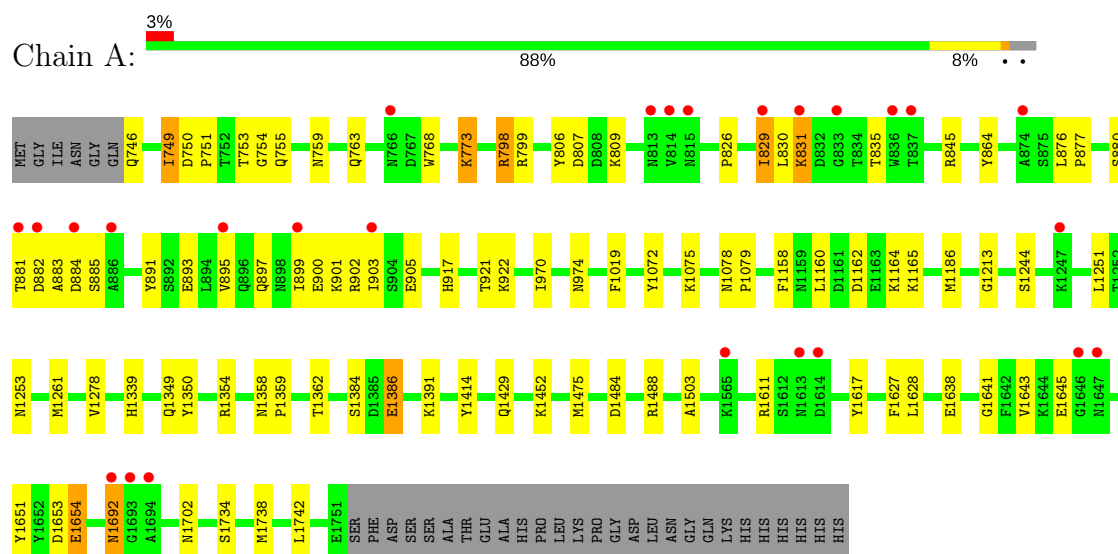
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1055	Total	O	0	0
			1055	1055		

3 Residue-property plots [i](#)

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: Glucansucrase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	58.28Å 65.95Å 82.51Å 73.30° 78.46° 85.82°	Depositor
Resolution (Å)	20.00 – 1.65 19.86 – 1.65	Depositor EDS
% Data completeness (in resolution range)	96.5 (20.00-1.65) 96.5 (19.86-1.65)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.20 (at 1.65Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.165 , 0.195 0.170 , 0.199	Depositor DCC
R_{free} test set	6715 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	19.1	Xtriage
Anisotropy	0.309	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 47.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9091	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.27% 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, CA

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	0.74	1/8170 (0.0%)	0.74	3/11114 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	893	GLU	C-N	5.73	1.47	1.34

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1742	LEU	CA-CB-CG	-5.90	101.74	115.30
1	A	1186	MET	CG-SD-CE	-5.71	91.07	100.20
1	A	1488	ARG	NE-CZ-NH2	-5.04	117.78	120.30

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	7987	0	7536	82	0
2	A	1	0	0	0	0
3	A	48	0	64	11	0
4	A	1055	0	0	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	9091	0	7600	86	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 6.

All (86) 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)
3:A:1783:GOL:H32	4:A:171:HOH:O	1.47	1.11
1:A:826:PRO:HG2	1:A:829:ILE:CD1	1.95	0.96
1:A:806:TYR:HE2	1:A:1628:LEU:HD23	1.34	0.92
1:A:1452:LYS:NZ	3:A:1779:GOL:H31	1.87	0.90
1:A:1452:LYS:CE	3:A:1779:GOL:H31	2.04	0.87
1:A:826:PRO:CG	1:A:829:ILE:CD1	2.52	0.87
1:A:1452:LYS:HZ3	3:A:1779:GOL:H31	1.42	0.85
1:A:864:TYR:CE1	1:A:922:LYS:HD2	2.16	0.81
1:A:826:PRO:HG2	1:A:829:ILE:HD13	1.64	0.78
1:A:1452:LYS:HZ3	3:A:1779:GOL:C3	1.97	0.77
1:A:902:ARG:HA	1:A:905:GLU:HG2	1.65	0.77
1:A:1452:LYS:HE2	3:A:1779:GOL:H31	1.66	0.77
1:A:773:LYS:HG2	4:A:1948:HOH:O	1.85	0.75
1:A:899:ILE:O	1:A:903:ILE:HG13	1.87	0.75
1:A:864:TYR:OH	1:A:922:LYS:HE2	1.87	0.74
1:A:1452:LYS:NZ	3:A:1779:GOL:C3	2.52	0.72
1:A:1654:GLU:CD	1:A:1654:GLU:H	1.92	0.72
1:A:864:TYR:HE1	1:A:922:LYS:HD2	1.52	0.72
1:A:809:LYS:HE2	4:A:2060:HOH:O	1.90	0.70
1:A:773:LYS:CG	4:A:1948:HOH:O	2.37	0.69
1:A:806:TYR:HE2	1:A:1628:LEU:CD2	2.05	0.68
1:A:884:ASP:OD1	1:A:885:SER:N	2.27	0.68
1:A:806:TYR:CE2	1:A:1628:LEU:HD23	2.24	0.67
1:A:749:ILE:HD12	1:A:749:ILE:C	2.14	0.67
1:A:826:PRO:HG3	1:A:829:ILE:CD1	2.25	0.65
1:A:845:ARG:NE	1:A:900:GLU:OE2	2.22	0.64
1:A:826:PRO:CG	1:A:829:ILE:HD11	2.27	0.64
1:A:798:ARG:HG3	1:A:799:ARG:N	2.13	0.64
1:A:1075:LYS:HD3	4:A:1858:HOH:O	1.99	0.61
1:A:806:TYR:CE2	1:A:1628:LEU:CD2	2.85	0.60
1:A:895:VAL:O	1:A:899:ILE:HG13	2.02	0.59
1:A:864:TYR:HE1	1:A:922:LYS:CD	2.15	0.58
1:A:1339:HIS:HD2	4:A:235:HOH:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1261:MET:HE2	1:A:1261:MET:HA	1.87	0.56
1:A:826:PRO:HG3	1:A:829:ILE:HD11	1.87	0.56
1:A:1213:GLY:HA2	1:A:1414:TYR:CE2	2.40	0.55
1:A:753:THR:C	1:A:755:GLN:H	2.08	0.55
1:A:897:GLN:O	1:A:901:LYS:HG3	2.07	0.55
1:A:1627:PHE:C	1:A:1628:LEU:HD22	2.27	0.54
1:A:753:THR:O	1:A:755:GLN:HG2	2.07	0.54
1:A:759:ASN:HB2	1:A:773:LYS:HG3	1.89	0.54
1:A:1475:MET:HG3	1:A:1484:ASP:HB3	1.91	0.53
1:A:749:ILE:HD12	1:A:750:ASP:C	2.28	0.52
3:A:1783:GOL:C3	4:A:171:HOH:O	2.27	0.52
1:A:753:THR:O	1:A:755:GLN:N	2.42	0.52
1:A:1611:ARG:HG2	1:A:1617:TYR:CD1	2.46	0.51
1:A:1160:LEU:HG	1:A:1164:LYS:HE3	1.92	0.51
1:A:1654:GLU:N	1:A:1654:GLU:CD	2.62	0.50
1:A:753:THR:C	1:A:755:GLN:N	2.65	0.50
1:A:830:LEU:HB3	1:A:900:GLU:HG3	1.94	0.50
1:A:1253:ASN:HB3	1:A:1278:VAL:HB	1.95	0.49
1:A:831:LYS:CB	1:A:835:THR:O	2.61	0.49
1:A:826:PRO:CG	1:A:829:ILE:HD12	2.37	0.49
1:A:876:LEU:HD21	1:A:891:TYR:CE1	2.48	0.49
1:A:880:SER:O	1:A:883:ALA:N	2.45	0.49
1:A:1452:LYS:HZ3	3:A:1779:GOL:C2	2.26	0.48
1:A:831:LYS:HB3	1:A:835:THR:O	2.14	0.48
1:A:902:ARG:CA	1:A:905:GLU:HG2	2.39	0.47
1:A:763:GLN:HB2	1:A:768:TRP:CH2	2.51	0.46
1:A:880:SER:O	1:A:882:ASP:N	2.49	0.46
1:A:1019:PHE:CG	1:A:1503:ALA:HB2	2.51	0.45
1:A:1429:GLN:NE2	4:A:677:HOH:O	2.49	0.45
1:A:1165:LYS:HD2	4:A:701:HOH:O	2.16	0.45
1:A:1358:ASN:HB2	1:A:1359:PRO:CD	2.47	0.45
1:A:884:ASP:C	1:A:884:ASP:OD1	2.55	0.45
1:A:1349:GLN:HG2	1:A:1350:TYR:CD2	2.52	0.45
1:A:1643:VAL:HG12	1:A:1645:GLU:HG3	1.99	0.44
3:A:1779:GOL:O1	3:A:1779:GOL:O3	2.26	0.44
3:A:1783:GOL:C1	4:A:171:HOH:O	2.65	0.44
1:A:880:SER:C	1:A:882:ASP:N	2.70	0.43
1:A:970:ILE:HD11	1:A:1072:TYR:CE1	2.53	0.43
1:A:1158:PHE:HB2	1:A:1162:ASP:HB2	2.01	0.43
1:A:1653:ASP:C	1:A:1653:ASP:OD1	2.57	0.42
1:A:763:GLN:HB2	1:A:768:TRP:CZ3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:974:ASN:HB3	4:A:2093:HOH:O	2.19	0.42
1:A:1078:ASN:N	1:A:1079:PRO:CD	2.82	0.42
1:A:749:ILE:HD12	1:A:751:PRO:N	2.35	0.42
1:A:1641:GLY:HA2	1:A:1651:TYR:CE1	2.54	0.42
1:A:746:GLN:NE2	4:A:2097:HOH:O	2.53	0.41
1:A:917:HIS:O	1:A:921:THR:HG23	2.21	0.41
1:A:876:LEU:HA	1:A:877:PRO:HD3	1.91	0.41
1:A:1734:SER:HA	1:A:1738:MET:O	2.21	0.41
1:A:1384:SER:OG	1:A:1386:GLU:HB2	2.21	0.41
1:A:902:ARG:O	1:A:905:GLU:HG2	2.20	0.41
1:A:1244:SER:O	1:A:1251:LEU:HD12	2.21	0.40
1:A:902:ARG:HA	1:A:905:GLU:CG	2.42	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	1006/1039 (97%)	980 (97%)	23 (2%)	3 (0%)	43	22

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	881	THR
1	A	1692	ASN
1	A	754	GLY

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	858/883 (97%)	844 (98%)	14 (2%)	65	43

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	749	ILE
1	A	773	LYS
1	A	798	ARG
1	A	807	ASP
1	A	829	ILE
1	A	831	LYS
1	A	1354	ARG
1	A	1362	THR
1	A	1386	GLU
1	A	1391	LYS
1	A	1638	GLU
1	A	1654	GLU
1	A	1692	ASN
1	A	1702	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	746	GLN
1	A	785	GLN
1	A	867	GLN
1	A	1304	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 [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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	$\# Z > 2$
3	GOL	A	1779	-	5,5,5	0.22	0	5,5,5	0.82	0
3	GOL	A	1780	-	5,5,5	0.25	0	5,5,5	0.57	0
3	GOL	A	1781	-	5,5,5	0.28	0	5,5,5	0.61	0
3	GOL	A	1782	-	5,5,5	0.36	0	5,5,5	0.24	0
3	GOL	A	1783	-	5,5,5	0.41	0	5,5,5	0.39	0
3	GOL	A	1784	-	5,5,5	0.37	0	5,5,5	0.82	0
3	GOL	A	1785	-	5,5,5	0.14	0	5,5,5	0.74	0
3	GOL	A	1786	-	5,5,5	0.30	0	5,5,5	0.58	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
3	GOL	A	1779	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1780	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1781	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1782	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1783	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1784	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1785	-	-	0/4/4/4	0/0/0/0
3	GOL	A	1786	-	-	0/4/4/4	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1779	GOL	8	0
3	A	1783	GOL	3	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	1006/1039 (96%)	-0.34	26 (2%) 56 56	6, 18, 50, 79	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1692	ASN	8.0
1	A	814	VAL	5.6
1	A	1693	GLY	4.8
1	A	882	ASP	4.6
1	A	1694	ALA	4.0
1	A	813	ASN	3.8
1	A	899	ILE	3.8
1	A	815	ASN	3.8
1	A	895	VAL	3.4
1	A	837	THR	3.3
1	A	886	ALA	3.2
1	A	836	TRP	3.1
1	A	831	LYS	3.0
1	A	1646	GLY	2.9
1	A	903	ILE	2.8
1	A	884	ASP	2.7
1	A	766	ASN	2.6
1	A	833	GLY	2.6
1	A	1647	ASN	2.5
1	A	829	ILE	2.3
1	A	874	ALA	2.2
1	A	1565	LYS	2.2
1	A	1614	ASP	2.2
1	A	1613	ASN	2.1
1	A	881	THR	2.1
1	A	1247	LYS	2.1

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. 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
3	GOL	A	1786	6/6	0.83	0.18	29,37,42,47	0
3	GOL	A	1779	6/6	0.84	0.13	25,31,41,42	0
3	GOL	A	1783	6/6	0.85	0.20	27,29,33,45	0
3	GOL	A	1785	6/6	0.92	0.12	28,29,31,34	0
3	GOL	A	1780	6/6	0.92	0.13	18,20,41,42	0
3	GOL	A	1782	6/6	0.95	0.07	18,22,24,26	0
3	GOL	A	1784	6/6	0.96	0.12	17,20,23,34	0
3	GOL	A	1781	6/6	0.97	0.09	10,10,11,12	0
2	CA	A	1	1/1	0.99	0.05	9,9,9,9	0

6.5 Other polymers [i](#)

There are no such residues in this entry.