



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:08 AM UTC

PDB ID : 6IMU / pdb_00006imu
Title : The apo-structure of endo-beta-1,2-glucanase from Talaromyces funiculosus
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Aramasa, H.; Takahashi, Y.; Sugimoto, N.; Abe, K.; Miyanaga, A.; Yamashita,
T.; Sugawara, F.; Kamakura, T.; Komba, S.; Nakai, H.; Taguchi, H.
Deposited on : 2018-10-23
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

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

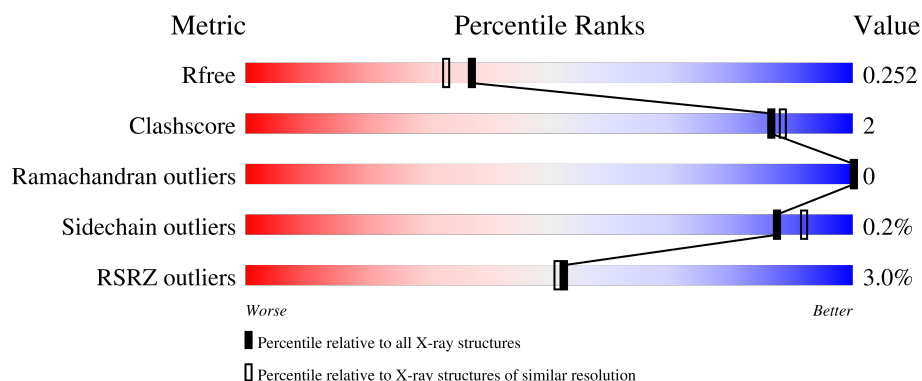
1 Overall quality at a glance

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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 of 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	505	5% 92% 5%
1	B	505	% 92% 6%

2 Entry composition [i](#)

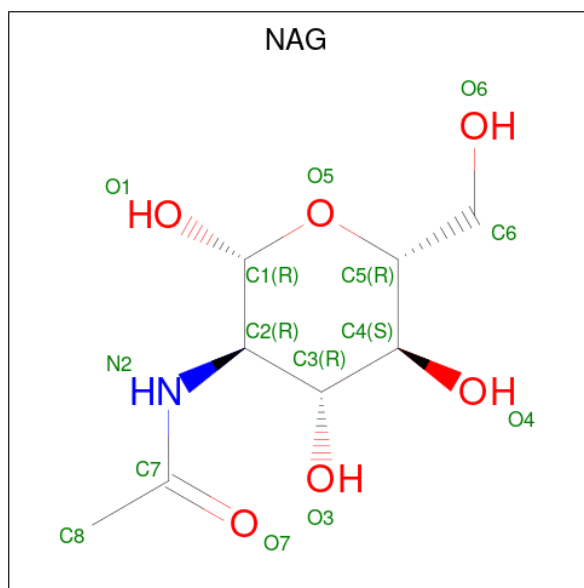
There are 7 unique types of molecules in this entry. The entry contains 8268 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Endo-beta-1,2-glucanase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	494	Total	C	N	O	S	0	2	0
			3927	2510	650	751	16			
1	B	493	Total	C	N	O	S	0	2	0
			3917	2504	650	747	16			

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



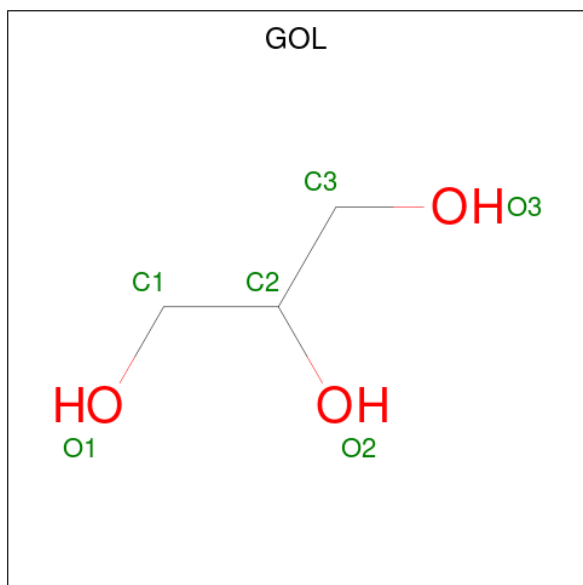
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		

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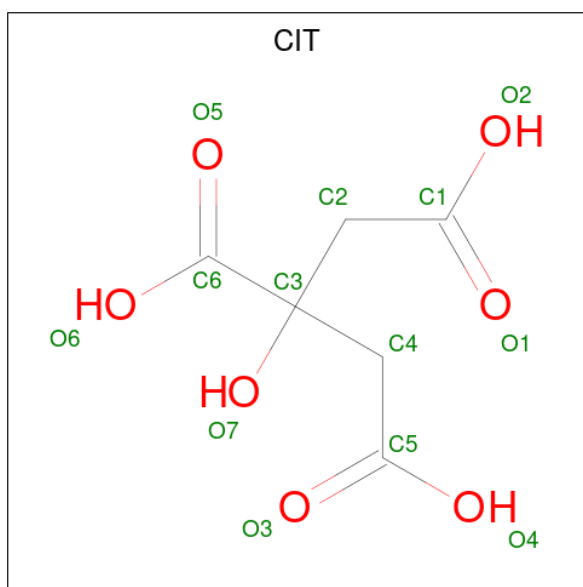
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



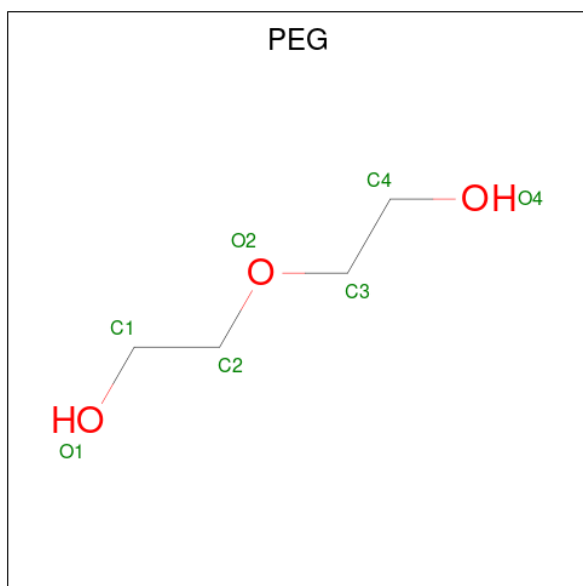
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is CITRIC ACID (CCD ID: CIT) (formula: $C_6H_8O_7$).



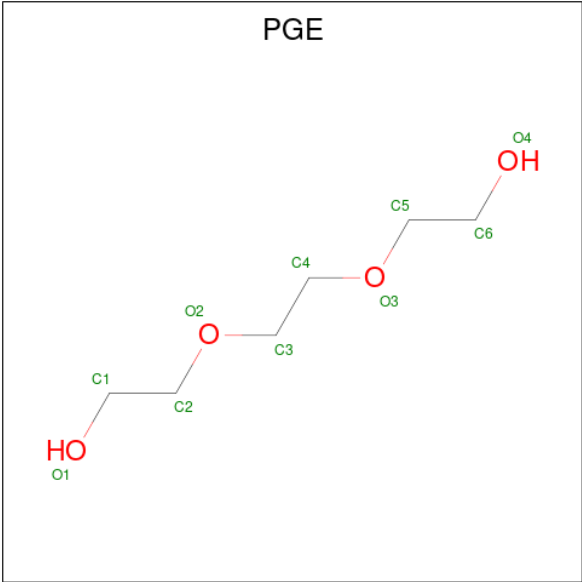
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			13	6	7		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			7	4	3		

- Molecule 6 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	B	1	Total	C	O	0	0
			10	6	4		

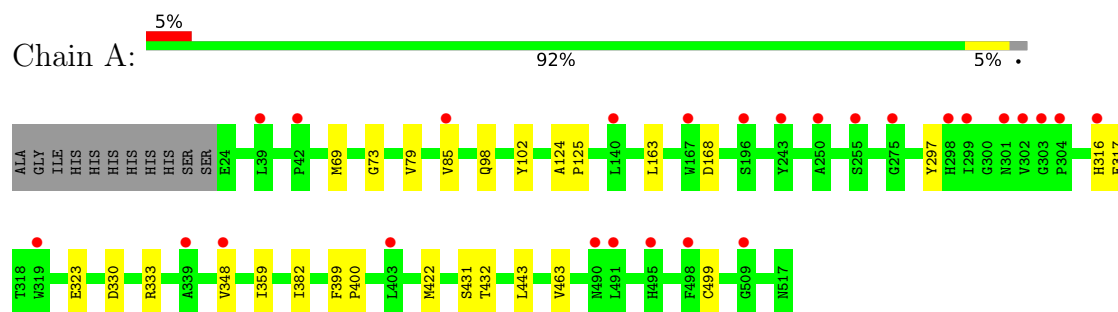
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	114	Total	O	0	0
			114	114		
7	B	176	Total	O	0	0
			176	176		

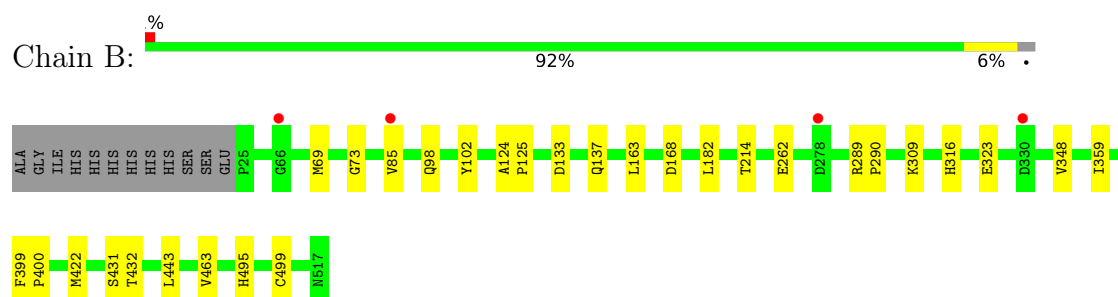
3 Residue-property plots [i](#)

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: Endo-beta-1,2-glucanase



- Molecule 1: Endo-beta-1,2-glucanase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	91.66Å 117.97Å 93.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.58 – 2.00 46.58 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (46.58-2.00) 99.9 (46.58-2.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.45 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0230	Depositor
R, R_{free}	0.220 , 0.248 0.228 , 0.252	Depositor DCC
R_{free} test set	3546 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	20.4	Xtriage
Anisotropy	0.064	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 33.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.018 for l,-k,h	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	8268	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 42.36 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.0623e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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, NAG, CIT, PEG, PGE

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	0.61	0/4040	0.89	0/5511
1	B	0.62	0/4030	0.90	0/5497
All	All	0.62	0/8070	0.90	0/11008

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	3927	0	3726	16	0
1	B	3917	0	3720	18	0
2	A	42	0	39	0	0
2	B	56	0	52	1	0
3	B	6	0	8	1	0
4	B	13	0	5	0	0
5	B	7	0	10	0	0
6	B	10	0	14	0	0
7	A	114	0	0	0	0
7	B	176	0	0	1	0
All	All	8268	0	7574	32	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 2.

All (32) 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:309:LYS:NZ	2:B:604:NAG:O7	2.17	0.76
1:B:262:GLU:OE2	1:B:316[B]:HIS:CD2	2.44	0.71
1:B:495:HIS:ND1	3:B:605:GOL:H12	2.10	0.66
1:A:69:MET:HE2	1:A:163:LEU:HD11	1.79	0.64
1:B:69:MET:HE2	1:B:163:LEU:HD11	1.80	0.63
1:B:262:GLU:OE2	1:B:316[B]:HIS:HD2	1.83	0.62
1:A:348:VAL:HG21	1:A:499:CYS:HB3	1.83	0.60
1:B:348:VAL:HG21	1:B:499:CYS:HB3	1.87	0.56
1:A:85:VAL:HG13	1:B:85:VAL:HG13	1.94	0.49
1:A:330:ASP:HA	1:A:333:ARG:NH2	2.28	0.48
1:B:73:GLY:HA3	1:B:443:LEU:O	2.14	0.48
1:A:73:GLY:HA3	1:A:443:LEU:O	2.14	0.48
1:A:79:VAL:HG21	7:B:702:HOH:O	2.14	0.47
1:B:323:GLU:O	1:B:463:VAL:HG21	2.15	0.46
1:A:316[B]:HIS:CD2	1:A:316[B]:HIS:C	2.94	0.46
1:A:323:GLU:O	1:A:463:VAL:HG21	2.16	0.46
1:A:85:VAL:HG13	1:B:85:VAL:CG1	2.46	0.45
1:A:359:ILE:HG12	1:A:431:SER:HB3	1.97	0.45
1:B:98:GLN:HG2	1:B:102:TYR:CE2	2.52	0.44
1:A:399:PHE:N	1:A:400:PRO:CD	2.81	0.44
1:B:359:ILE:HG12	1:B:431:SER:HB3	1.98	0.44
1:A:98:GLN:HG2	1:A:102:TYR:CE2	2.53	0.44
1:A:124:ALA:N	1:A:125:PRO:CD	2.81	0.43
1:A:316[B]:HIS:CD2	1:A:317:GLU:N	2.86	0.43
1:B:399:PHE:N	1:B:400:PRO:CD	2.82	0.43
1:B:422:MET:SD	1:B:432:THR:HB	2.60	0.41
1:B:182:LEU:HD21	1:B:214:THR:HG21	2.02	0.41
1:A:422:MET:SD	1:A:432:THR:HB	2.61	0.41
1:A:297:TYR:HB2	1:A:382:ILE:HG21	2.03	0.41
1:B:133:ASP:OD1	1:B:137:GLN:NE2	2.54	0.41
1:B:124:ALA:N	1:B:125:PRO:CD	2.85	0.40
1:B:289:ARG:N	1:B:290:PRO:CD	2.85	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	494/505 (98%)	478 (97%)	16 (3%)	0	100	100
1	B	493/505 (98%)	479 (97%)	14 (3%)	0	100	100
All	All	987/1010 (98%)	957 (97%)	30 (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	423/430 (98%)	422 (100%)	1 (0%)	87	92
1	B	422/430 (98%)	421 (100%)	1 (0%)	87	92
All	All	845/860 (98%)	843 (100%)	2 (0%)	87	92

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

Mol	Chain	Res	Type
1	A	168	ASP
1	B	168	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	308	GLN

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Mol	Chain	Res	Type
1	A	384	ASN
1	A	385	GLN
1	B	308	GLN
1	B	360	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

11 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	$\# Z > 2$
5	PEG	B	607	-	6,6,6	0.51	0	5,5,5	0.43	0
2	NAG	B	603	1	14,14,15	0.25	0	17,19,21	1.11	2 (11%)
2	NAG	A	603	1	14,14,15	0.31	0	17,19,21	1.03	1 (5%)
2	NAG	A	602	1	14,14,15	0.47	0	17,19,21	0.98	0
4	CIT	B	606	-	12,12,12	1.10	0	17,17,17	1.63	5 (29%)
2	NAG	A	601	1	14,14,15	0.30	0	17,19,21	0.77	0
2	NAG	B	604	1	14,14,15	0.27	0	17,19,21	0.98	0
2	NAG	B	602	1	14,14,15	0.47	0	17,19,21	0.70	0
3	GOL	B	605	-	5,5,5	0.63	0	5,5,5	0.76	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	PGE	B	608	-	9,9,9	0.53	0	8,8,8	0.24	0
2	NAG	B	601	1	14,14,15	0.61	0	17,19,21	1.16	1 (5%)

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
5	PEG	B	607	-	-	3/4/4/4	-
2	NAG	B	603	1	-	2/6/23/26	0/1/1/1
2	NAG	A	603	1	-	1/6/23/26	0/1/1/1
2	NAG	A	602	1	-	0/6/23/26	0/1/1/1
4	CIT	B	606	-	-	10/16/16/16	-
2	NAG	A	601	1	-	2/6/23/26	0/1/1/1
2	NAG	B	604	1	-	0/6/23/26	0/1/1/1
2	NAG	B	602	1	-	0/6/23/26	0/1/1/1
3	GOL	B	605	-	-	4/4/4/4	-
6	PGE	B	608	-	-	3/7/7/7	-
2	NAG	B	601	1	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	606	CIT	O6-C6-C3	3.02	118.92	113.14
4	B	606	CIT	O2-C1-C2	2.66	122.78	114.35
2	B	601	NAG	O5-C1-C2	-2.58	107.31	111.29
2	B	603	NAG	C1-C2-N2	2.39	114.21	110.43
4	B	606	CIT	O4-C5-C4	2.33	121.73	114.35
2	A	603	NAG	O5-C1-C2	-2.32	107.70	111.29
4	B	606	CIT	O1-C1-C2	-2.25	116.59	122.95
2	B	603	NAG	O5-C1-C2	-2.05	108.12	111.29
4	B	606	CIT	O3-C5-C4	-2.03	117.20	122.95

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	605	GOL	O1-C1-C2-C3
3	B	605	GOL	O1-C1-C2-O2
6	B	608	PGE	O2-C3-C4-O3
3	B	605	GOL	C1-C2-C3-O3
4	B	606	CIT	C2-C3-C6-O5
4	B	606	CIT	C2-C3-C6-O6
2	B	603	NAG	C4-C5-C6-O6
4	B	606	CIT	O2-C1-C2-C3
6	B	608	PGE	O1-C1-C2-O2
4	B	606	CIT	O1-C1-C2-C3
4	B	606	CIT	O7-C3-C6-O5
3	B	605	GOL	O2-C2-C3-O3
2	B	601	NAG	C4-C5-C6-O6
2	A	601	NAG	C4-C5-C6-O6
5	B	607	PEG	C4-C3-O2-C2
5	B	607	PEG	C1-C2-O2-C3
4	B	606	CIT	C4-C3-C6-O6
6	B	608	PGE	C6-C5-O3-C4
2	B	601	NAG	O5-C5-C6-O6
5	B	607	PEG	O1-C1-C2-O2
2	A	601	NAG	O5-C5-C6-O6
4	B	606	CIT	O7-C3-C6-O6
4	B	606	CIT	C4-C3-C6-O5
4	B	606	CIT	C3-C4-C5-O4
2	A	603	NAG	C1-C2-N2-C7
2	B	603	NAG	O5-C5-C6-O6
4	B	606	CIT	C3-C4-C5-O3

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	604	NAG	1	0
3	B	605	GOL	1	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	494/505 (97%)	0.76	26 (5%) 32 31	10, 24, 35, 44	2 (0%)
1	B	493/505 (97%)	0.23	4 (0%) 82 82	6, 18, 25, 33	2 (0%)
All	All	987/1010 (97%)	0.49	30 (3%) 52 51	6, 21, 32, 44	4 (0%)

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	495	HIS	3.2
1	A	302	VAL	3.2
1	A	250	ALA	3.1
1	A	319	TRP	3.0
1	A	196	SER	3.0
1	A	303	GLY	3.0
1	A	509	GLY	2.9
1	A	301	ASN	2.7
1	A	490	ASN	2.6
1	A	491	LEU	2.6
1	A	316[A]	HIS	2.6
1	A	403	LEU	2.6
1	A	299	ILE	2.5
1	A	85	VAL	2.5
1	A	339	ALA	2.4
1	B	85	VAL	2.4
1	B	66	GLY	2.3
1	A	39	LEU	2.3
1	A	243	TYR	2.3
1	B	330	ASP	2.2
1	A	498	PHE	2.1
1	A	140	LEU	2.1
1	A	42	PRO	2.1
1	A	304	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	275	GLY	2.1
1	A	348	VAL	2.1
1	B	278	ASP	2.0
1	A	255	SER	2.0
1	A	167	TRP	2.0
1	A	298	HIS	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 oligosaccharides 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
4	CIT	B	606	13/13	0.74	0.15	32,36,41,42	0
2	NAG	A	602	14/15	0.78	0.14	36,38,45,47	0
3	GOL	B	605	6/6	0.79	0.16	25,26,27,28	0
2	NAG	B	601	14/15	0.83	0.13	21,22,28,28	0
5	PEG	B	607	7/7	0.83	0.13	32,33,35,35	0
2	NAG	B	602	14/15	0.85	0.12	22,26,30,34	0
2	NAG	A	601	14/15	0.85	0.11	27,31,33,37	0
2	NAG	B	603	14/15	0.86	0.11	22,23,27,28	0
2	NAG	A	603	14/15	0.86	0.10	28,30,32,33	0
6	PGE	B	608	10/10	0.86	0.15	38,41,42,43	0
2	NAG	B	604	14/15	0.90	0.09	25,27,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.