



Full wwPDB X-ray Structure Validation Report ⓘ

May 5, 2025 – 11:01 AM EDT

PDB ID : 9CSZ / pdb_00009csz
Title : Crystallographic structure of M271 a new Kunitz-STI from potato
Authors : Campuzano-Gonzalez, A.; Rudino-Pinera, E.
Deposited on : 2024-07-24
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 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 Phenix2.0rc1
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0rc1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

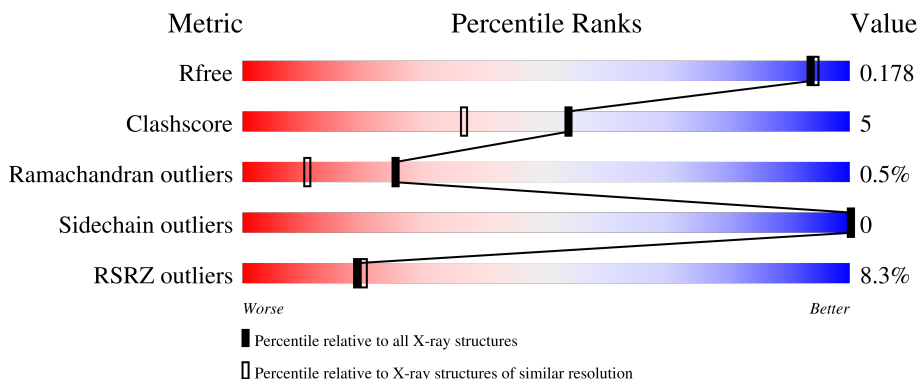
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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}	164625	2328 (1.66-1.66)
Clashscore	180529	2515 (1.66-1.66)
Ramachandran outliers	177936	2475 (1.66-1.66)
Sidechain outliers	177891	2475 (1.66-1.66)
RSRZ outliers	164620	2328 (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 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	195	
1	B	195	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3522 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 KTI-A protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	193	Total	C	N	O	S	0	9	0
			1604	1023	283	291	7			
1	A	191	Total	C	N	O	S	0	6	0
			1544	986	268	283	7			

There are 14 discrepancies between the modelled and reference sequences:

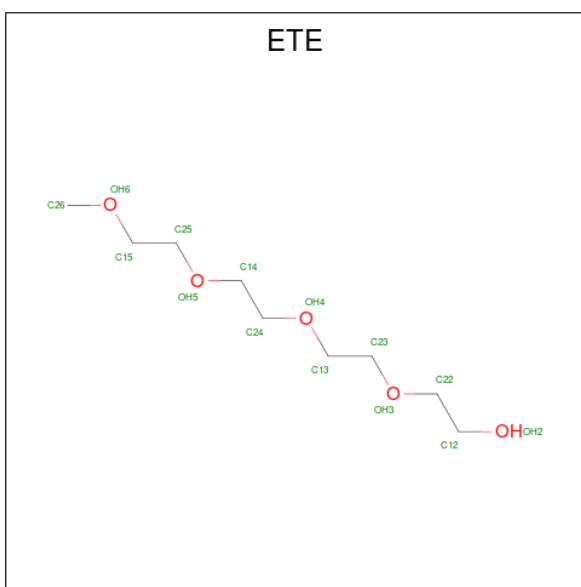
Chain	Residue	Modelled	Actual	Comment	Reference
B	4	LEU	VAL	conflict	UNP A0A097H115
B	190	HIS	-	expression tag	UNP A0A097H115
B	191	HIS	-	expression tag	UNP A0A097H115
B	192	HIS	-	expression tag	UNP A0A097H115
B	193	HIS	-	expression tag	UNP A0A097H115
B	194	HIS	-	expression tag	UNP A0A097H115
B	195	HIS	-	expression tag	UNP A0A097H115
A	4	LEU	VAL	conflict	UNP A0A097H115
A	190	HIS	-	expression tag	UNP A0A097H115
A	191	HIS	-	expression tag	UNP A0A097H115
A	192	HIS	-	expression tag	UNP A0A097H115
A	193	HIS	-	expression tag	UNP A0A097H115
A	194	HIS	-	expression tag	UNP A0A097H115
A	195	HIS	-	expression tag	UNP A0A097H115

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



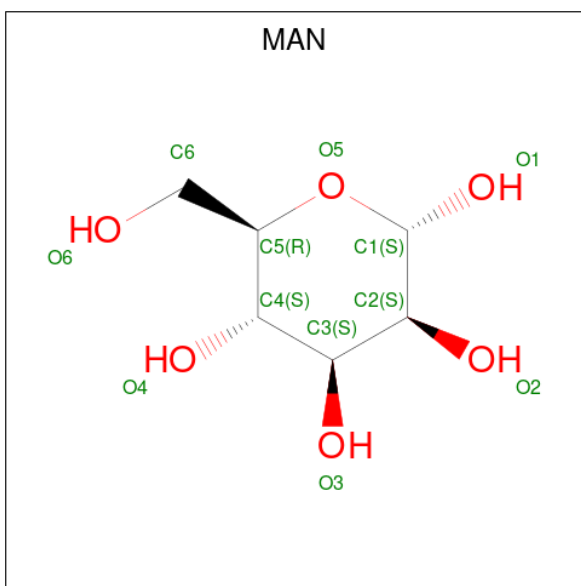
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	1
			12	6	6		
2	B	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	1
			12	6	6		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is 2-{2-[2-2-(METHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHANOL (CCD ID: ETE) (formula: C₉H₂₀O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			14	9	5		

- Molecule 4 is alpha-D-mannopyranose (CCD ID: MAN) (formula: $C_6H_{12}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			11	6	5		

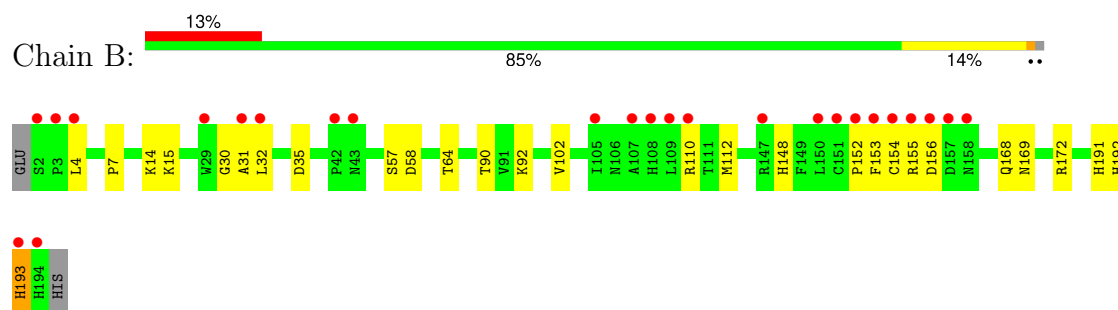
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	103	Total 103	O 103	0	0
5	A	180	Total 180	O 180	0	0

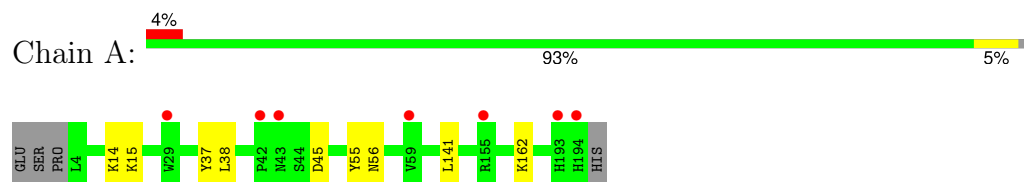
3 Residue-property plots [i](#)

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: KTI-A protein



• Molecule 1: KTI-A protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	62.40Å 76.71Å 82.37Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.74 – 1.65 49.74 – 1.65	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.74-1.65) 100.0 (49.74-1.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 1.65Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.175 , 0.203 0.180 , 0.178	Depositor DCC
R_{free} test set	2360 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å ²)	14.8	Xtriage
Anisotropy	0.061	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 39.9	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	0.95	EDS
Total number of atoms	3522	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 8.16% 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: ETE, GOL, MAN

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	0.29	0/1585	0.53	0/2156
1	B	0.26	0/1646	0.48	0/2236
All	All	0.28	0/3231	0.51	0/4392

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	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	153	PHE	Peptide

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	1544	0	1504	8	0
1	B	1604	0	1575	21	0
2	A	30	0	40	6	0
2	B	36	0	48	3	0
3	A	14	0	20	0	0
4	A	11	0	10	0	0
5	A	180	0	0	0	3
5	B	103	0	0	9	3
All	All	3522	0	3197	31	6

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 5.

All (31) 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:14:LYS:NZ	5:B:301:HOH:O	1.83	1.09
1:B:58[A]:ASP:OD2	5:B:303:HOH:O	2.03	0.76
1:B:58[B]:ASP:OD1	5:B:304:HOH:O	2.10	0.68
1:B:148:HIS:O	1:B:152:PRO:HA	1.94	0.68
1:A:38:LEU:HB3	2:A:206:GOL:H32	1.76	0.68
1:B:90[B]:THR:OG1	5:B:302:HOH:O	1.98	0.67
1:B:92:LYS:NZ	5:B:307:HOH:O	2.29	0.63
1:B:156:ASP:OD2	5:B:305:HOH:O	2.14	0.63
1:A:55:TYR:HA	2:A:204:GOL:H32	1.80	0.63
1:B:30:GLY:N	1:B:58[A]:ASP:OD2	2.32	0.62
1:B:102:VAL:HG12	1:B:112:MET:HE2	1.85	0.58
1:B:32:LEU:HA	1:B:172:ARG:HH22	1.70	0.57
1:B:192:HIS:O	1:B:193[A]:HIS:HB2	2.06	0.56
1:A:56:ASN:CG	2:A:204:GOL:H11	2.32	0.55
1:B:7:PRO:HB3	1:B:15[C]:LYS:HE2	1.90	0.54
1:B:191:HIS:HD1	2:A:203[A]:GOL:H2	1.75	0.52
1:B:110[B]:ARG:HD3	1:B:110[B]:ARG:HA	1.43	0.46
1:B:64:THR:HG23	2:B:204:GOL:H12	1.98	0.45
5:B:350:HOH:O	2:A:206:GOL:H31	2.15	0.45
1:B:31:ALA:HA	1:B:57:SER:HB2	1.99	0.45
1:A:14:LYS:HZ1	1:A:15:LYS:HD3	1.83	0.44
1:A:14:LYS:NZ	1:A:15:LYS:H	2.16	0.44
1:A:45[A]:ASP:OD2	1:A:45[A]:ASP:N	2.52	0.43
1:B:4[B]:LEU:HD12	1:B:4[B]:LEU:HA	1.86	0.43
1:A:37:TYR:OH	2:A:204:GOL:H31	2.19	0.42
1:B:92:LYS:HG3	5:B:307:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:203:GOL:H2	5:B:347:HOH:O	2.19	0.42
1:B:35:ASP:OD1	2:B:202:GOL:O1	2.38	0.41
1:A:141:LEU:HD22	1:A:162:LYS:HG2	2.03	0.41
1:B:155:ARG:HG2	1:B:156:ASP:H	1.86	0.41
1:B:168:GLN:HG2	1:B:169:ASN:ND2	2.36	0.41

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:473:HOH:O	5:A:474:HOH:O[3_454]	2.02	0.18
5:B:312:HOH:O	5:B:396:HOH:O[4_455]	2.04	0.16
5:B:358:HOH:O	5:B:396:HOH:O[4_455]	2.04	0.16
5:B:383:HOH:O	5:B:396:HOH:O[4_455]	2.07	0.13
5:A:321:HOH:O	5:A:469:HOH:O[2_455]	2.12	0.08
5:A:425:HOH:O	5:A:455:HOH:O[2_455]	2.19	0.01

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	195/195 (100%)	190 (97%)	5 (3%)	0	100	100
1	B	202/195 (104%)	194 (96%)	5 (2%)	3 (2%)	8	1
All	All	397/390 (102%)	384 (97%)	10 (2%)	3 (1%)	25	4

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	154	CYS
1	B	193[A]	HIS
1	B	193[B]	HIS

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	173/172 (101%)	173 (100%)	0	100	100
1	B	180/172 (105%)	180 (100%)	0	100	100
All	All	353/344 (103%)	353 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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

Mol	Chain	Res	Type
1	B	12	ASN
1	B	169	ASN
1	B	180	ASN
1	A	192	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 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	203[A]	-	5,5,5	0.98	0	5,5,5	1.06	0
4	MAN	A	202	-	11,11,12	1.41	1 (9%)	14,15,17	1.27	1 (7%)
2	GOL	B	203	-	5,5,5	0.99	0	5,5,5	0.96	0
2	GOL	B	205	-	5,5,5	1.07	0	5,5,5	0.86	0
2	GOL	A	203[B]	-	5,5,5	0.93	0	5,5,5	1.03	0
2	GOL	B	204	-	5,5,5	1.01	0	5,5,5	0.97	0
2	GOL	A	206	-	5,5,5	0.86	0	5,5,5	1.03	0
2	GOL	A	205	-	5,5,5	1.03	0	5,5,5	1.33	1 (20%)
3	ETE	A	201	-	13,13,13	0.53	0	12,12,12	0.29	0
2	GOL	B	202	-	5,5,5	0.71	0	5,5,5	1.23	1 (20%)
2	GOL	B	201[B]	-	5,5,5	0.90	0	5,5,5	1.06	0
2	GOL	B	201[A]	-	5,5,5	0.89	0	5,5,5	1.07	0
2	GOL	A	204	-	5,5,5	1.01	0	5,5,5	0.83	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	203[A]	-	-	0/4/4/4	-
4	MAN	A	202	-	-	2/2/18/22	1/1/1/1
2	GOL	B	203	-	-	4/4/4/4	-
2	GOL	B	205	-	-	4/4/4/4	-
2	GOL	A	203[B]	-	-	2/4/4/4	-
2	GOL	B	204	-	-	2/4/4/4	-
2	GOL	A	206	-	-	2/4/4/4	-
2	GOL	A	205	-	-	2/4/4/4	-
3	ETE	A	201	-	-	9/11/11/11	-
2	GOL	B	202	-	-	2/4/4/4	-
2	GOL	B	201[B]	-	-	0/4/4/4	-
2	GOL	B	201[A]	-	-	0/4/4/4	-
2	GOL	A	204	-	-	2/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	202	MAN	C1-C2	4.21	1.56	1.52

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	202	MAN	O2-C2-C1	2.61	113.82	108.94
2	A	205	GOL	C3-C2-C1	-2.43	102.89	111.80
2	B	202	GOL	C3-C2-C1	-2.13	103.98	111.80

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	202	GOL	C1-C2-C3-O3
2	B	203	GOL	C1-C2-C3-O3
2	B	204	GOL	O1-C1-C2-C3
2	B	205	GOL	O1-C1-C2-C3
2	A	203[B]	GOL	O1-C1-C2-C3
2	A	206	GOL	C1-C2-C3-O3
4	A	202	MAN	O5-C5-C6-O6
4	A	202	MAN	C4-C5-C6-O6
3	A	201	ETE	OH5-C14-C24-OH4
2	B	204	GOL	O1-C1-C2-O2
2	B	203	GOL	O1-C1-C2-C3
2	B	205	GOL	C1-C2-C3-O3
2	A	204	GOL	C1-C2-C3-O3
2	A	205	GOL	C1-C2-C3-O3
2	B	203	GOL	O2-C2-C3-O3
2	B	205	GOL	O1-C1-C2-O2
2	B	205	GOL	O2-C2-C3-O3
2	A	203[B]	GOL	O1-C1-C2-O2
2	A	205	GOL	O2-C2-C3-O3
2	A	206	GOL	O2-C2-C3-O3
3	A	201	ETE	OH2-C12-C22-OH3
2	B	202	GOL	O2-C2-C3-O3
2	A	204	GOL	O2-C2-C3-O3
3	A	201	ETE	OH6-C15-C25-OH5
3	A	201	ETE	C25-C15-OH6-C26
3	A	201	ETE	C15-C25-OH5-C14
3	A	201	ETE	C14-C24-OH4-C13
3	A	201	ETE	C23-C13-OH4-C24

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Mol	Chain	Res	Type	Atoms
2	B	203	GOL	O1-C1-C2-O2
3	A	201	ETE	C12-C22-OH3-C23
3	A	201	ETE	C13-C23-OH3-C22

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	202	MAN	C1-C2-C3-C4-C5-O5

6 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	203[A]	GOL	1	0
2	B	203	GOL	1	0
2	B	204	GOL	1	0
2	A	206	GOL	2	0
2	B	202	GOL	1	0
2	A	204	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	191/195 (97%)	-0.26	7 (3%) 45 48	8, 14, 32, 80	6 (3%)
1	B	193/195 (98%)	0.32	25 (12%) 9 9	6, 19, 56, 91	9 (4%)
All	All	384/390 (98%)	0.03	32 (8%) 19 20	6, 16, 44, 91	15 (3%)

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	153	PHE	7.3
1	B	154	CYS	6.9
1	A	194	HIS	6.7
1	B	193[A]	HIS	5.5
1	B	152	PRO	5.3
1	B	29	TRP	4.7
1	B	31	ALA	4.5
1	B	110[A]	ARG	4.5
1	B	2	SER	4.1
1	B	155	ARG	4.1
1	B	194	HIS	4.0
1	A	43	ASN	3.8
1	B	108	HIS	3.7
1	B	3	PRO	3.5
1	B	107	ALA	3.4
1	A	42	PRO	3.4
1	B	157	ASP	3.3
1	A	29	TRP	3.2
1	A	59	VAL	3.1
1	B	156	ASP	3.0
1	B	4[A]	LEU	2.9
1	B	158	ASN	2.8
1	B	32	LEU	2.7
1	B	105	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	155	ARG	2.6
1	B	43	ASN	2.3
1	B	150	LEU	2.3
1	B	42	PRO	2.2
1	B	109	LEU	2.2
1	A	193	HIS	2.1
1	B	151	CYS	2.1
1	B	147[A]	ARG	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 ⓘ

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(Å ²)	Q<0.9
3	ETE	A	201	14/14	0.68	0.25	55,62,70,71	0
2	GOL	B	202	6/6	0.69	0.21	30,48,50,55	0
2	GOL	B	203	6/6	0.72	0.23	29,44,51,54	0
2	GOL	B	205	6/6	0.80	0.20	30,54,57,59	0
2	GOL	B	204	6/6	0.85	0.14	30,40,42,43	0
2	GOL	A	206	6/6	0.86	0.15	33,43,49,52	0
2	GOL	A	204	6/6	0.88	0.16	21,35,39,53	0
2	GOL	A	203[A]	6/6	0.88	0.11	28,28,30,31	6
2	GOL	A	203[B]	6/6	0.88	0.11	24,29,30,30	6
2	GOL	A	205	6/6	0.90	0.13	19,36,39,41	0
2	GOL	B	201[B]	6/6	0.90	0.11	21,23,26,27	6
2	GOL	B	201[A]	6/6	0.90	0.11	20,25,26,27	6
4	MAN	A	202	11/12	0.91	0.12	17,34,45,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.