



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:47 AM UTC

PDB ID : 7X85 / pdb_00007x85
Title : Crystal structure of chicken CENP-C Cupin domain
Authors : Ariyoshi, M.; Hara, M.; Fukagawa, T.
Deposited on : 2022-03-11
Resolution : 2.64 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

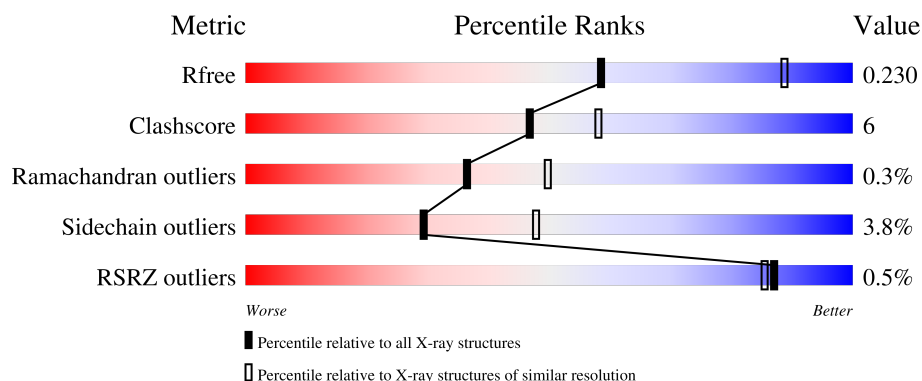
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.64 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	2053 (2.66-2.62)
Clashscore	190562	2097 (2.66-2.62)
Ramachandran outliers	187476	2066 (2.66-2.62)
Sidechain outliers	187428	2066 (2.66-2.62)
RSRZ outliers	180081	2052 (2.66-2.62)

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	193	% 52% 13% • 34%
1	B	193	 55% 11% • 33%
1	C	193	% 58% 8% • 34%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3125 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.

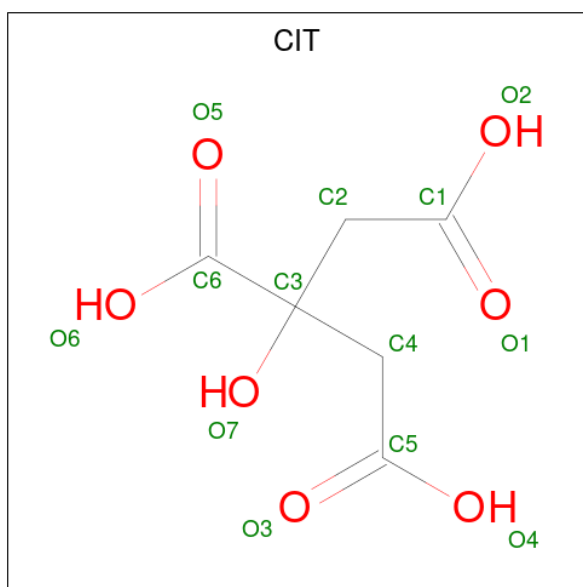
- Molecule 1 is a protein called CENP-C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	127	Total	C	N	O	S	0	0	0
			1004	644	164	193	3			
1	B	130	Total	C	N	O	S	0	0	0
			1029	659	167	200	3			
1	C	128	Total	C	N	O	S	0	0	0
			1013	651	165	194	3			

There are 15 discrepancies between the modelled and reference sequences:

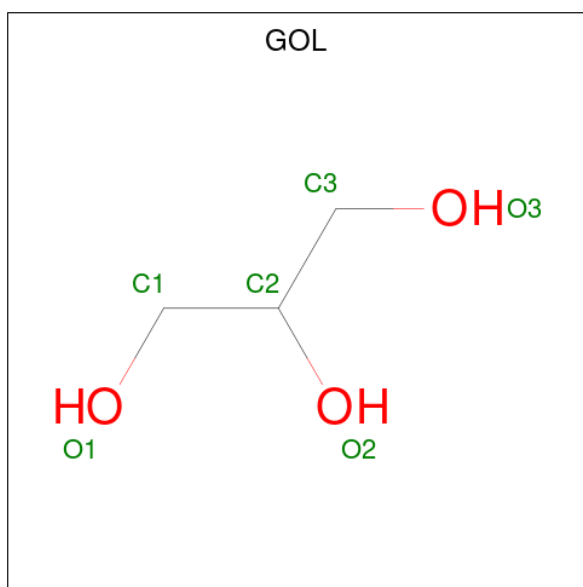
Chain	Residue	Modelled	Actual	Comment	Reference
A	672	GLY	-	expression tag	UNP O57393
A	673	PRO	-	expression tag	UNP O57393
A	674	LEU	-	expression tag	UNP O57393
A	675	GLY	-	expression tag	UNP O57393
A	676	SER	-	expression tag	UNP O57393
B	672	GLY	-	expression tag	UNP O57393
B	673	PRO	-	expression tag	UNP O57393
B	674	LEU	-	expression tag	UNP O57393
B	675	GLY	-	expression tag	UNP O57393
B	676	SER	-	expression tag	UNP O57393
C	672	GLY	-	expression tag	UNP O57393
C	673	PRO	-	expression tag	UNP O57393
C	674	LEU	-	expression tag	UNP O57393
C	675	GLY	-	expression tag	UNP O57393
C	676	SER	-	expression tag	UNP O57393

- Molecule 2 is CITRIC ACID (CCD ID: CIT) (formula: C₆H₈O₇).



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

- 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		

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

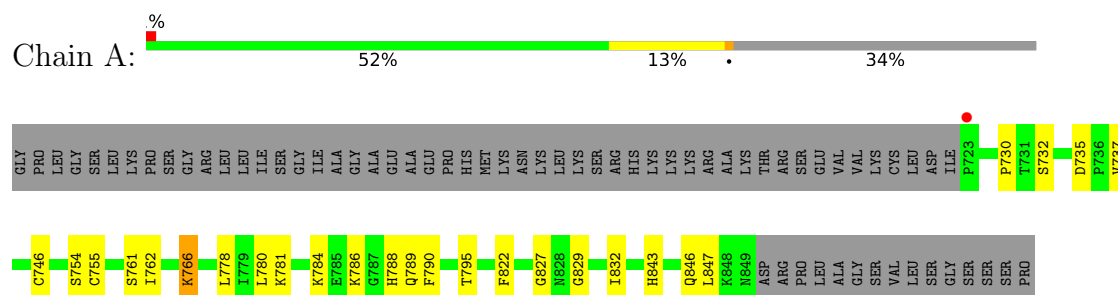
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	O	0	0
			1	1		
4	C	9	Total	O	0	0
			9	9		

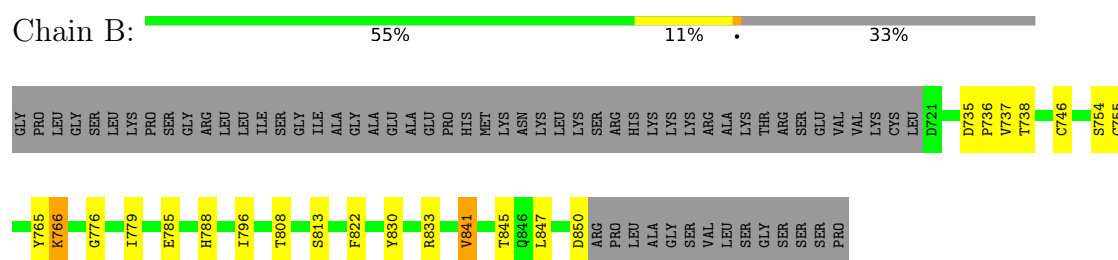
3 Residue-property plots

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.

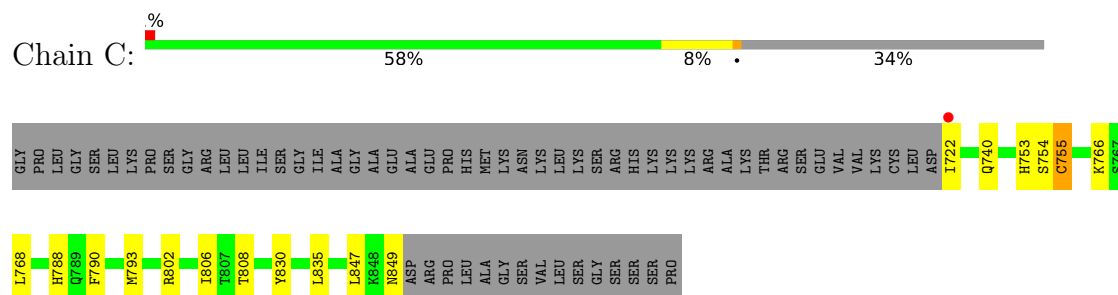
• Molecule 1: CENP-C



• Molecule 1: CENP-C



• Molecule 1: CENP-C



4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	112.59Å 112.59Å 212.11Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	47.56 – 2.64 47.56 – 2.64	Depositor EDS
% Data completeness (in resolution range)	99.8 (47.56-2.64) 99.7 (47.56-2.64)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.54 (at 2.65Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.185 , 0.252 (Not available) , 0.230	Depositor DCC
R_{free} test set	1170 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	70.4	Xtriage
Anisotropy	0.315	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 77.6	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	3125	wwPDB-VP
Average B, all atoms (Å ²)	97.0	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 62.95 % 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 1.0410e-05. 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, CIT

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	0.53	0/1027	0.91	2/1391 (0.1%)
1	B	0.55	1/1052 (0.1%)	0.88	0/1427
1	C	0.60	1/1036 (0.1%)	1.01	4/1405 (0.3%)
All	All	0.56	2/3115 (0.1%)	0.93	6/4223 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	788	HIS	CE1-NE2	6.11	1.38	1.32
1	C	788	HIS	CE1-NE2	5.76	1.38	1.32

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	755	CYS	CB-CA-C	-8.54	92.08	110.45
1	C	753	HIS	CA-C-N	5.88	128.08	120.44
1	C	753	HIS	C-N-CA	5.88	128.08	120.44
1	C	790	PHE	CB-CA-C	5.53	118.78	109.48
1	A	846	GLN	CB-CA-C	-5.16	101.42	109.84
1	A	790	PHE	CB-CA-C	5.08	118.12	109.80

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	1004	0	988	18	0
1	B	1029	0	1010	13	0
1	C	1013	0	1002	8	0
2	A	13	0	5	0	0
2	B	13	0	5	0	0
2	C	13	0	5	0	0
3	B	6	0	8	0	0
3	C	24	0	32	1	0
4	B	1	0	0	0	0
4	C	9	0	0	0	0
All	All	3125	0	3055	35	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 (35) 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:761:SER:HB2	1:A:784:LYS:HB3	1.63	0.80
1:C:768:LEU:HA	3:C:903:GOL:H12	1.76	0.66
1:A:761:SER:CB	1:A:784:LYS:HB3	2.32	0.60
1:A:847:LEU:HD22	1:B:847:LEU:HD22	1.85	0.59
1:A:755:CYS:HB2	1:A:766:LYS:HB2	1.86	0.56
1:B:735:ASP:HB3	1:B:738:THR:CG2	2.36	0.56
1:A:780:LEU:HD11	1:A:832:ILE:CG2	2.36	0.54
1:B:735:ASP:HB3	1:B:738:THR:HG22	1.89	0.54
1:A:735:ASP:OD1	1:A:737:VAL:HG22	2.09	0.53
1:A:762:ILE:CD1	1:A:778:LEU:HD11	2.38	0.53
1:C:793:MET:O	1:C:849:ASN:HB2	2.10	0.51
1:B:808:THR:O	1:B:830:TYR:HA	2.11	0.51
1:A:762:ILE:HD11	1:A:786:LYS:HG3	1.93	0.51
1:B:779:ILE:HG12	1:B:841:VAL:HG12	1.93	0.51
1:A:780:LEU:HD11	1:A:832:ILE:HG22	1.96	0.47
1:B:755:CYS:HB2	1:B:766:LYS:HB2	1.95	0.47
1:C:755:CYS:HB2	1:C:766:LYS:HB2	1.97	0.46
1:C:806:ILE:HG12	1:C:835:LEU:HD21	1.97	0.46
1:B:785:GLU:HB2	1:B:833:ARG:HG2	1.98	0.45
1:C:722:ILE:HG23	1:C:722:ILE:O	2.16	0.45
1:A:746:CYS:O	1:B:822:PHE:HA	2.17	0.45
1:A:786:LYS:HE3	1:A:789:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:740:GLN:HE21	1:C:740:GLN:HB2	1.57	0.45
1:C:808:THR:O	1:C:830:TYR:HA	2.17	0.45
1:B:765:TYR:O	1:B:776:GLY:HA3	2.17	0.44
1:A:780:LEU:HD11	1:A:832:ILE:HG21	1.99	0.44
1:C:802:ARG:HG2	1:C:802:ARG:HH11	1.82	0.44
1:A:822:PHE:HA	1:B:746:CYS:O	2.18	0.43
1:A:827:GLY:HA3	1:B:736:PRO:HG3	2.00	0.43
1:A:780:LEU:CD1	1:A:832:ILE:HG22	2.48	0.43
1:A:788:HIS:NE2	1:A:829:GLY:HA3	2.34	0.43
1:A:843:HIS:CD2	1:A:843:HIS:C	2.96	0.43
1:A:762:ILE:HD13	1:A:778:LEU:HD11	2.00	0.43
1:B:735:ASP:OD1	1:B:737:VAL:HG22	2.21	0.41
1:B:808:THR:HG23	1:B:813:SER:HB3	2.03	0.41

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	125/193 (65%)	120 (96%)	4 (3%)	1 (1%)	16	24
1	B	128/193 (66%)	122 (95%)	6 (5%)	0	100	100
1	C	126/193 (65%)	121 (96%)	5 (4%)	0	100	100
All	All	379/579 (66%)	363 (96%)	15 (4%)	1 (0%)	36	50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	730	PRO

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	114/168 (68%)	109 (96%)	5 (4%)	25	41
1	B	117/168 (70%)	111 (95%)	6 (5%)	21	35
1	C	115/168 (68%)	113 (98%)	2 (2%)	53	72
All	All	346/504 (69%)	333 (96%)	13 (4%)	29	48

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	732	SER
1	A	754	SER
1	A	766	LYS
1	A	781	LYS
1	A	795	THR
1	B	754	SER
1	B	766	LYS
1	B	796	ILE
1	B	841	VAL
1	B	845	THR
1	B	850	ASP
1	C	754	SER
1	C	847	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	740	GLN
1	B	748	ASN
1	C	740	GLN
1	C	748	ASN
1	C	753	HIS
1	C	769	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

8 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	CIT	A	901	-	12,12,12	1.22	1 (8%)	17,17,17	1.15	2 (11%)
3	GOL	B	901	-	5,5,5	0.24	0	5,5,5	0.35	0
2	CIT	C	905	-	12,12,12	1.34	1 (8%)	17,17,17	1.32	2 (11%)
2	CIT	B	902	-	12,12,12	1.33	1 (8%)	17,17,17	1.23	2 (11%)
3	GOL	C	901	-	5,5,5	0.22	0	5,5,5	0.63	0
3	GOL	C	903	-	5,5,5	0.15	0	5,5,5	0.46	0
3	GOL	C	902	-	5,5,5	0.13	0	5,5,5	0.31	0
3	GOL	C	904	-	5,5,5	0.07	0	5,5,5	0.35	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	CIT	A	901	-	-	9/16/16/16	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	901	-	-	4/4/4/4	-
2	CIT	C	905	-	-	2/16/16/16	-
2	CIT	B	902	-	-	3/16/16/16	-
3	GOL	C	901	-	-	4/4/4/4	-
3	GOL	C	903	-	-	0/4/4/4	-
3	GOL	C	902	-	-	4/4/4/4	-
3	GOL	C	904	-	-	1/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	902	CIT	C3-C6	3.05	1.56	1.53
2	C	905	CIT	C3-C6	2.95	1.56	1.53
2	A	901	CIT	C3-C6	2.53	1.56	1.53

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	905	CIT	O6-C6-C3	2.71	118.34	113.14
2	C	905	CIT	O5-C6-C3	-2.65	116.96	122.09
2	B	902	CIT	O6-C6-C3	2.47	117.88	113.14
2	A	901	CIT	O5-C6-C3	-2.24	117.75	122.09
2	B	902	CIT	O5-C6-C3	-2.23	117.77	122.09
2	A	901	CIT	O6-C6-C3	2.21	117.38	113.14

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	901	CIT	C1-C2-C3-C4
2	A	901	CIT	C1-C2-C3-C6
2	A	901	CIT	C2-C3-C6-O5
2	A	901	CIT	C2-C3-C6-O6
2	A	901	CIT	O7-C3-C6-O5
2	A	901	CIT	O7-C3-C6-O6
3	B	901	GOL	O1-C1-C2-C3
3	B	901	GOL	C1-C2-C3-O3
3	B	901	GOL	O2-C2-C3-O3
3	B	901	GOL	O1-C1-C2-O2
2	A	901	CIT	C1-C2-C3-O7

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Mol	Chain	Res	Type	Atoms
3	C	901	GOL	C1-C2-C3-O3
3	C	902	GOL	O1-C1-C2-C3
3	C	902	GOL	C1-C2-C3-O3
3	C	904	GOL	O1-C1-C2-C3
3	C	901	GOL	O2-C2-C3-O3
3	C	902	GOL	O2-C2-C3-O3
2	C	905	CIT	C2-C3-C4-C5
3	C	902	GOL	O1-C1-C2-O2
2	A	901	CIT	O2-C1-C2-C3
3	C	901	GOL	O1-C1-C2-O2
2	C	905	CIT	C6-C3-C4-C5
2	A	901	CIT	O1-C1-C2-C3
2	B	902	CIT	C2-C3-C4-C5
3	C	901	GOL	O1-C1-C2-C3
2	B	902	CIT	O1-C1-C2-C3
2	B	902	CIT	C3-C4-C5-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	903	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 [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	127/193 (65%)	-0.49	1 (0%) 82 80	66, 100, 155, 180	0
1	B	130/193 (67%)	-0.51	0 100 100	66, 107, 147, 172	0
1	C	128/193 (66%)	-0.73	1 (0%) 82 80	46, 69, 107, 130	0
All	All	385/579 (66%)	-0.58	2 (0%) 87 85	46, 92, 150, 180	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	723	PRO	5.2
1	C	722	ILE	3.5

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
3	GOL	B	901	6/6	0.91	0.18	105,135,141,143	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GOL	C	901	6/6	0.93	0.15	96,105,121,121	0
3	GOL	C	902	6/6	0.95	0.10	104,133,137,141	0
3	GOL	C	903	6/6	0.95	0.12	84,103,124,133	0
2	CIT	A	901	13/13	0.97	0.07	117,130,167,181	0
3	GOL	C	904	6/6	0.97	0.10	98,101,117,126	0
2	CIT	C	905	13/13	0.98	0.08	90,110,133,146	0
2	CIT	B	902	13/13	0.98	0.07	108,131,155,156	0

6.5 Other polymers [i](#)

There are no such residues in this entry.