



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 01:20 PM UTC

PDB ID : 3EPZ / pdb_00003epz
Title : Structure of the replication foci-targeting sequence of human DNA cytosine methyltransferase DNMT1
Authors : Walker, J.R.; Avvakumov, G.V.; Xue, S.; Li, Y.; Bountra, C.; Weigelt, J.; Arrowsmith, C.H.; Edwards, A.M.; Bochkarev, A.; Dhe-Paganon, S.; Structural Genomics Consortium (SGC)
Deposited on : 2008-09-30
Resolution : 2.31 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

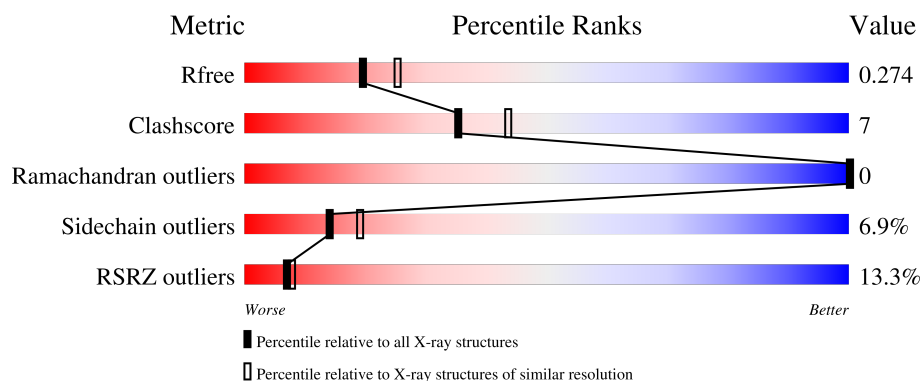
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.31 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	7754 (2.34-2.30)
Clashscore	190562	8383 (2.34-2.30)
Ramachandran outliers	187476	8303 (2.34-2.30)
Sidechain outliers	187428	8303 (2.34-2.30)
RSRZ outliers	180081	7760 (2.34-2.30)

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	268	
1	B	268	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3560 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 DNA (cytosine-5)-methyltransferase 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	227	Total	C	N	O	S	Se	0	1	0
			1741	1114	282	335	6	4			
1	B	223	Total	C	N	O	S	Se	0	0	0
			1705	1098	276	321	6	4			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	333	MSE	-	expression tag	UNP P26358
A	334	HIS	-	expression tag	UNP P26358
A	335	HIS	-	expression tag	UNP P26358
A	336	HIS	-	expression tag	UNP P26358
A	337	HIS	-	expression tag	UNP P26358
A	338	HIS	-	expression tag	UNP P26358
A	339	HIS	-	expression tag	UNP P26358
A	340	SER	-	expression tag	UNP P26358
A	341	SER	-	expression tag	UNP P26358
A	342	GLY	-	expression tag	UNP P26358
A	343	ARG	-	expression tag	UNP P26358
A	344	GLU	-	expression tag	UNP P26358
A	345	ASN	-	expression tag	UNP P26358
A	346	LEU	-	expression tag	UNP P26358
A	347	TYR	-	expression tag	UNP P26358
A	348	PHE	-	expression tag	UNP P26358
A	349	GLN	-	expression tag	UNP P26358
A	350	GLY	-	expression tag	UNP P26358
B	333	MSE	-	expression tag	UNP P26358
B	334	HIS	-	expression tag	UNP P26358
B	335	HIS	-	expression tag	UNP P26358
B	336	HIS	-	expression tag	UNP P26358
B	337	HIS	-	expression tag	UNP P26358
B	338	HIS	-	expression tag	UNP P26358
B	339	HIS	-	expression tag	UNP P26358

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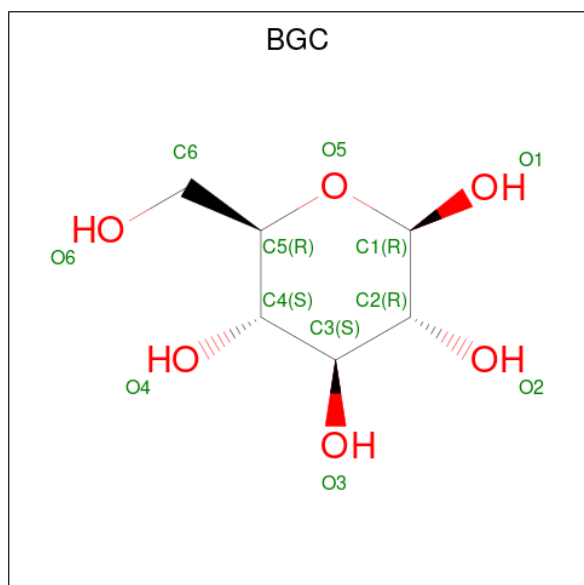
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Chain	Residue	Modelled	Actual	Comment	Reference
B	340	SER	-	expression tag	UNP P26358
B	341	SER	-	expression tag	UNP P26358
B	342	GLY	-	expression tag	UNP P26358
B	343	ARG	-	expression tag	UNP P26358
B	344	GLU	-	expression tag	UNP P26358
B	345	ASN	-	expression tag	UNP P26358
B	346	LEU	-	expression tag	UNP P26358
B	347	TYR	-	expression tag	UNP P26358
B	348	PHE	-	expression tag	UNP P26358
B	349	GLN	-	expression tag	UNP P26358
B	350	GLY	-	expression tag	UNP P26358

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

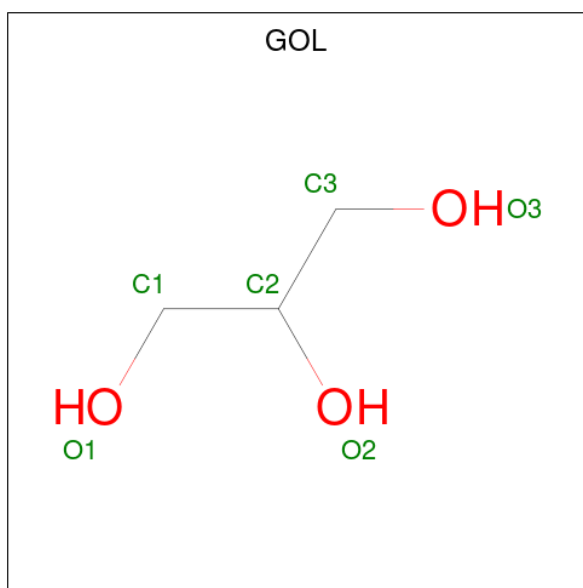
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		

- Molecule 3 is beta-D-glucopyranose (CCD ID: BGC) (formula: C₆H₁₂O₆).



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

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Na	0	0
			1	1		

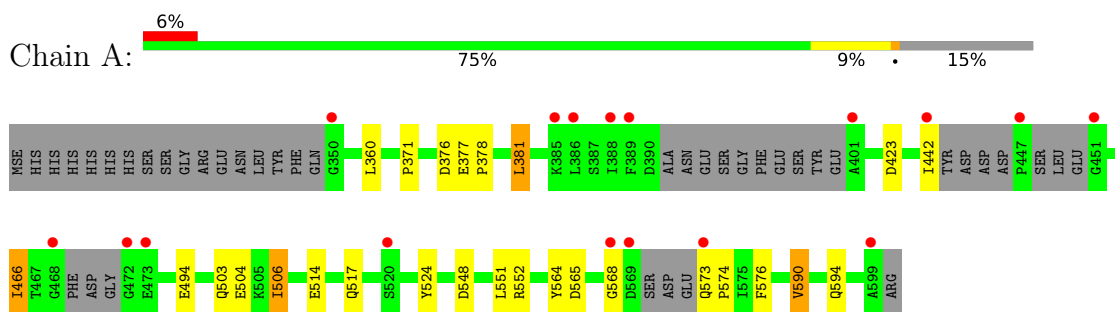
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	66	Total	O	0	1
			67	67		
6	B	25	Total	O	0	1
			26	26		

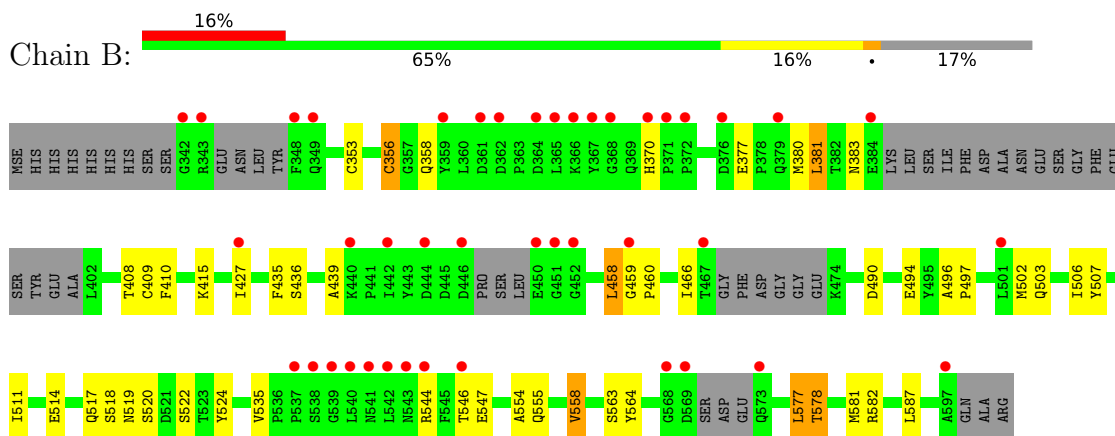
3 Residue-property plots [i](#)

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: DNA (cytosine-5)-methyltransferase 1



• Molecule 1: DNA (cytosine-5)-methyltransferase 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	57.54Å 59.77Å 96.29Å 90.00° 92.31° 90.00°	Depositor
Resolution (Å)	48.11 – 2.31 48.11 – 2.31	Depositor EDS
% Data completeness (in resolution range)	99.5 (48.11-2.31) 99.6 (48.11-2.31)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.53 (at 2.32Å)	Xtriage
Refinement program	REFMAC 5.5.0044	Depositor
R, R_{free}	0.213 , 0.264 0.224 , 0.274	Depositor DCC
R_{free} test set	1473 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	47.7	Xtriage
Anisotropy	0.082	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 57.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.014 for -k,-h,-l 0.008 for k,h,-l 0.026 for h,-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3560	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.25% 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, NA, ZN, BGC

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	0.62	1/1775 (0.1%)	0.84	1/2403 (0.0%)
1	B	0.52	0/1740	0.82	0/2356
All	All	0.57	1/3515 (0.0%)	0.83	1/4759 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	371	PRO	CA-C	5.34	1.54	1.51

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	568	GLY	N-CA-C	5.42	119.39	110.77

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	1741	0	1656	20	0
1	B	1705	0	1608	31	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	12	0	12	0	0
4	A	6	0	8	0	0
5	A	1	0	0	0	0
6	A	67	0	0	0	0
6	B	26	0	0	0	0
All	All	3560	0	3284	50	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 7.

All (50) 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:423:ASP:HB2	1:A:506:ILE:HG13	1.49	0.95
1:B:506:ILE:HD12	1:B:507:TYR:N	1.96	0.81
1:B:506:ILE:HD12	1:B:507:TYR:H	1.47	0.79
1:A:503:GLN:HB2	1:A:506:ILE:HD12	1.68	0.76
1:B:356:CYS:HB3	1:B:358:GLN:H	1.52	0.75
1:A:590:VAL:HG13	1:A:594:GLN:HB2	1.68	0.72
1:B:408:THR:HG22	1:B:409:CYS:H	1.55	0.71
1:B:502:MSE:SE	1:B:506:ILE:HD13	2.44	0.68
1:B:546:THR:HG22	1:B:547:GLU:N	2.11	0.65
1:B:554:ALA:O	1:B:558:VAL:HG13	1.99	0.61
1:B:502:MSE:SE	1:B:506:ILE:CD1	2.99	0.61
1:B:353:CYS:SG	1:B:356:CYS:HB2	2.41	0.60
1:A:506:ILE:HD13	1:A:506:ILE:H	1.68	0.58
1:B:353:CYS:HB3	1:B:356:CYS:HB2	1.86	0.58
1:A:503:GLN:HB2	1:A:506:ILE:CD1	2.36	0.56
1:B:408:THR:HG23	1:B:490:ASP:H	1.70	0.56
1:A:376:ASP:HB3	1:A:378:PRO:HD2	1.87	0.55
1:B:578:THR:HG22	1:B:581:MSE:H	1.71	0.55
1:A:503:GLN:O	1:A:506:ILE:HD13	2.07	0.55
1:A:565:ASP:OD2	1:A:576:PHE:HB2	2.06	0.54
1:A:423:ASP:CB	1:A:506:ILE:HG13	2.32	0.54
1:B:546:THR:HG22	1:B:547:GLU:H	1.70	0.54
1:B:507:TYR:CE2	1:B:511:ILE:HD11	2.43	0.54
1:B:535:VAL:HG22	1:B:544:ARG:HH12	1.73	0.53
1:B:503:GLN:HB2	1:B:506:ILE:HG13	1.89	0.53
1:B:517:GLN:NE2	1:B:564:TYR:OH	2.41	0.53
1:B:496:ALA:HB3	1:B:497:PRO:HD3	1.92	0.52
1:B:408:THR:HG22	1:B:409:CYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:380:MSE:HE2	1:B:439:ALA:H	1.76	0.49
1:A:590:VAL:CG1	1:A:594:GLN:HB2	2.41	0.48
1:A:506:ILE:HD13	1:A:506:ILE:N	2.29	0.48
1:A:517:GLN:NE2	1:A:564:TYR:OH	2.47	0.47
1:B:410:PHE:HA	1:B:436:SER:O	2.15	0.47
1:A:378:PRO:HB3	1:B:577:LEU:HB3	1.98	0.46
1:B:520:SER:O	1:B:578:THR:HG23	2.16	0.45
1:B:435:PHE:O	1:B:458:LEU:HB2	2.16	0.45
1:B:459:GLY:HA3	1:B:460:PRO:HA	1.75	0.45
1:B:377:GLU:HG2	1:B:381:LEU:HD22	1.99	0.44
1:A:573:GLN:HA	1:A:574:PRO:HD3	1.89	0.44
1:A:377:GLU:HG2	1:A:381:LEU:HD22	2.00	0.44
1:B:524:TYR:CD2	1:B:587:LEU:HD22	2.53	0.44
1:A:503:GLN:O	1:A:506:ILE:CD1	2.66	0.43
1:A:466:ILE:HG22	1:A:514:GLU:HG2	2.00	0.43
1:B:546:THR:CG2	1:B:547:GLU:N	2.79	0.42
1:A:504:GLU:OE1	1:A:552:ARG:NH2	2.52	0.42
1:A:524:TYR:OH	1:A:551:LEU:HD21	2.20	0.42
1:B:380:MSE:HE2	1:B:439:ALA:N	2.35	0.41
1:B:380:MSE:HE2	1:B:439:ALA:CB	2.51	0.41
1:B:519:ASN:HB3	1:B:522:SER:OG	2.21	0.40
1:A:423:ASP:OD1	1:A:506:ILE:CD1	2.69	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	217/268 (81%)	214 (99%)	3 (1%)	0	100	100
1	B	211/268 (79%)	204 (97%)	7 (3%)	0	100	100
All	All	428/536 (80%)	418 (98%)	10 (2%)	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	186/230 (81%)	178 (96%)	8 (4%)	26	38
1	B	178/230 (77%)	161 (90%)	17 (10%)	8	10
All	All	364/460 (79%)	339 (93%)	25 (7%)	14	19

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	360	LEU
1	A	381	LEU
1	A	442	ILE
1	A	466	ILE
1	A	494	GLU
1	A	506	ILE
1	A	548	ASP
1	A	590	VAL
1	B	356	CYS
1	B	370	HIS
1	B	381	LEU
1	B	383	ASN
1	B	415	LYS
1	B	427	ILE
1	B	458	LEU
1	B	466	ILE
1	B	494	GLU
1	B	514	GLU
1	B	518	SER
1	B	555	GLN
1	B	558	VAL
1	B	563	SER
1	B	577	LEU
1	B	578	THR
1	B	582	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	379	GLN
1	A	383	ASN
1	A	517	GLN
1	A	541	ASN
1	A	553	HIS
1	A	560	GLN
1	B	355	GLN
1	B	379	GLN
1	B	383	ASN
1	B	503	GLN
1	B	517	GLN

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](#)

Of 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 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	BGC	A	702	-	12,12,12	0.52	0	17,17,17	0.67	0
4	GOL	A	703	-	5,5,5	0.32	0	5,5,5	0.86	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	BGC	A	702	-	-	0/2/22/22	0/1/1/1
4	GOL	A	703	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	703	GOL	C1-C2-C3-O3
4	A	703	GOL	O2-C2-C3-O3
4	A	703	GOL	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	223/268 (83%)	0.41	17 (7%)	20 22	25, 46, 74, 105	1 (0%)
1	B	219/268 (81%)	1.17	42 (19%)	3 3	41, 66, 105, 120	0
All	All	442/536 (82%)	0.79	59 (13%)	7 8	25, 58, 99, 120	1 (0%)

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	447	PRO	7.4
1	B	342	GLY	6.1
1	B	597	ALA	5.1
1	B	450	GLU	4.7
1	B	366	LYS	4.7
1	A	599	ALA	4.6
1	B	568	GLY	4.6
1	B	348	PHE	4.6
1	A	388	ILE	4.5
1	A	389	PHE	4.2
1	B	446	ASP	4.0
1	A	401	ALA	3.9
1	B	451	GLY	3.8
1	A	568	GLY	3.8
1	B	362	ASP	3.6
1	B	364	ASP	3.5
1	B	367	TYR	3.1
1	B	569	ASP	3.1
1	B	541	ASN	3.0
1	A	573	GLN	2.9
1	A	442	ILE	2.9
1	B	539	GLY	2.9
1	B	349	GLN	2.9
1	A	468	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	542	LEU	2.9
1	B	372	PRO	2.8
1	B	573	GLN	2.8
1	B	384	GLU	2.8
1	A	385	LYS	2.8
1	B	444	ASP	2.7
1	B	361	ASP	2.7
1	A	451	GLY	2.7
1	B	537	PRO	2.7
1	A	472	GLY	2.6
1	A	473	GLU	2.6
1	B	442	ILE	2.6
1	B	370	HIS	2.6
1	B	452	GLY	2.6
1	B	368	GLY	2.5
1	B	440	LYS	2.5
1	B	546	THR	2.5
1	B	365	LEU	2.4
1	B	467	THR	2.4
1	B	501	LEU	2.4
1	B	343	ARG	2.4
1	B	379	GLN	2.3
1	B	538	SER	2.3
1	B	459	GLY	2.3
1	A	386	LEU	2.2
1	A	350	GLY	2.2
1	A	520	SER	2.2
1	B	543	ASN	2.1
1	B	540	LEU	2.1
1	A	569	ASP	2.1
1	B	376	ASP	2.1
1	B	359	TYR	2.0
1	B	371	PRO	2.0
1	B	427	ILE	2.0
1	B	544	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 [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($\text{\AA}^2$)	Q<0.9
4	GOL	A	703	6/6	0.78	0.21	71,72,73,73	0
3	BGC	A	702	12/12	0.80	0.18	103,104,105,105	0
5	NA	A	1	1/1	0.93	0.13	50,50,50,50	0
2	ZN	B	701	1/1	0.99	0.03	60,60,60,60	0
2	ZN	A	701	1/1	1.00	0.01	35,35,35,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.