



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 06:32 PM UTC

PDB ID : 3K9J / pdb_00003k9j
Title : Transposase domain of Metnase
Authors : Goodwin, K.D.; He, H.; Imasaki, T.; Lee, S.-H.; Georgiadis, M.M.
Deposited on : 2009-10-15
Resolution : 1.90 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

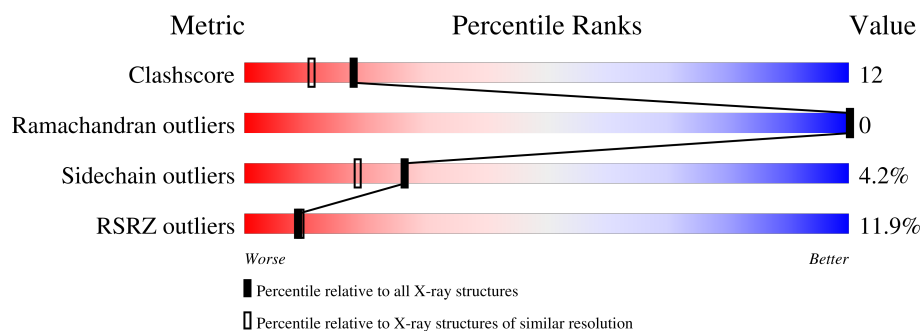
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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))
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	239	
1	B	239	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3667 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 Histone-lysine N-methyltransferase SETMAR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	201	Total	C	N	O	S	0	1	0
			1683	1073	296	308	6			
1	B	204	Total	C	N	O	S	0	0	0
			1712	1096	299	312	5			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	438	GLU	GLY	SEE REMARK 999	UNP Q53H47
A	566	ARG	ASN	engineered mutation	UNP Q53H47
A	569	ARG	GLY	engineered mutation	UNP Q53H47
A	649	TRP	ALA	engineered mutation	UNP Q53H47
B	438	GLU	GLY	SEE REMARK 999	UNP Q53H47
B	566	ARG	ASN	engineered mutation	UNP Q53H47
B	569	ARG	GLY	engineered mutation	UNP Q53H47
B	649	TRP	ALA	engineered mutation	UNP Q53H47

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

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

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		

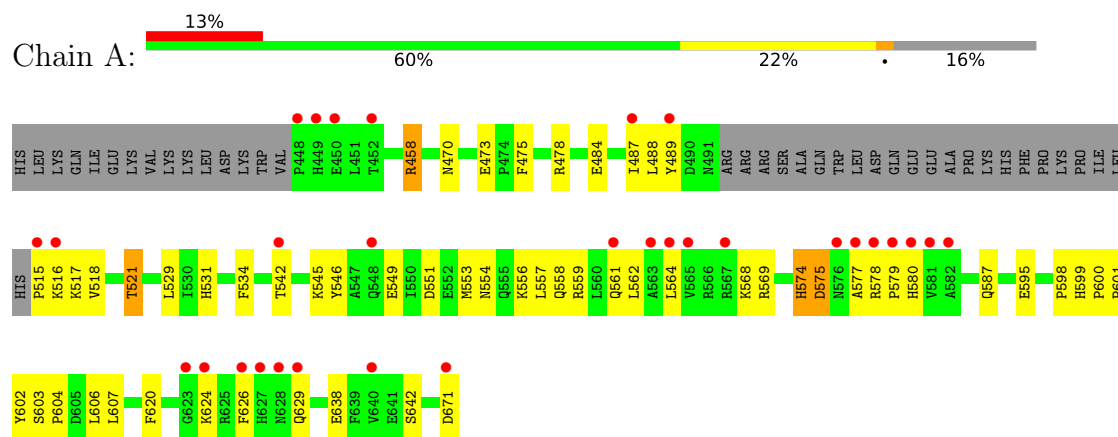
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	126	Total	O	0	0
			126	126		
4	B	125	Total	O	0	0
			125	125		

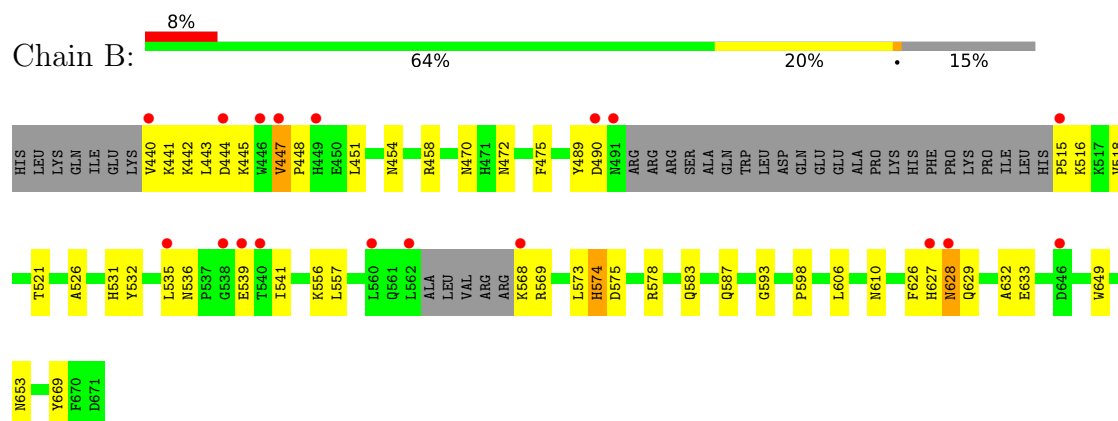
3 Residue-property plots [i](#)

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: Histone-lysine N-methyltransferase SETMAR



- Molecule 1: Histone-lysine N-methyltransferase SETMAR



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	79.16Å 45.41Å 90.68Å 90.00° 113.81° 90.00°	Depositor
Resolution (Å)	44.59 – 1.90 44.59 – 1.90	Depositor EDS
% Data completeness (in resolution range)	88.5 (44.59-1.90) 88.5 (44.59-1.90)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.64 (at 1.91Å)	Xtriage
Refinement program	PHENIX 1.4_4, CNS	Depositor
R, R_{free}	0.205 , 0.234 0.205 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	27.1	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 46.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.021 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3667	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.69% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, EDO

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	0.45	0/1730	0.76	0/2348
1	B	0.48	0/1760	0.79	0/2387
All	All	0.47	0/3490	0.78	0/4735

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	1683	0	1621	40	0
1	B	1712	0	1657	44	0
2	A	1	0	0	0	0
3	A	16	0	24	5	0
3	B	4	0	6	0	0
4	A	126	0	0	6	0
4	B	125	0	0	4	0
All	All	3667	0	3308	82	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 12.

All (82) 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:602:TYR:H	3:A:2:EDO:H11	1.29	0.95
1:B:526:ALA:HB1	1:B:649:TRP:HE3	1.44	0.82
1:B:489:TYR:O	1:B:516:LYS:HG2	1.82	0.79
1:A:561:GLN:HA	1:A:564:LEU:HD13	1.68	0.76
3:A:3:EDO:H11	4:A:252:HOH:O	1.90	0.71
1:B:628:ASN:HD22	1:B:628:ASN:N	1.89	0.70
1:B:535:LEU:HD13	4:B:183:HOH:O	1.92	0.68
1:A:478:ARG:HD2	1:A:568:LYS:HE2	1.77	0.66
1:B:526:ALA:HB1	1:B:649:TRP:CE3	2.30	0.65
1:B:440:VAL:HG12	1:B:447:VAL:O	1.96	0.65
1:B:518:VAL:HG23	1:B:535:LEU:O	1.98	0.64
1:B:583:GLN:HG3	1:B:587:GLN:HE21	1.62	0.63
1:B:627:HIS:C	1:B:628:ASN:HD22	2.05	0.63
1:A:602:TYR:N	3:A:2:EDO:H11	2.10	0.63
1:B:531:HIS:HD2	1:B:556:LYS:NZ	1.97	0.63
1:B:515:PRO:O	1:B:516:LYS:HB3	2.02	0.59
1:A:602:TYR:H	3:A:2:EDO:C1	2.10	0.58
1:B:535:LEU:HD21	1:B:541:ILE:HB	1.84	0.58
1:A:478:ARG:HD2	1:A:568:LYS:CE	2.34	0.58
1:B:440:VAL:HG22	1:B:441:LYS:H	1.69	0.58
1:B:574:HIS:CD2	1:B:578:ARG:HH21	2.21	0.58
1:A:601:PRO:HB3	3:A:3:EDO:H21	1.86	0.57
1:A:620:PHE:O	1:A:624:LYS:HE3	2.05	0.56
1:B:516:LYS:O	1:B:516:LYS:HD3	2.05	0.56
1:B:628:ASN:N	1:B:628:ASN:ND2	2.54	0.56
1:B:470:ASN:ND2	1:B:475:PHE:H	2.04	0.55
1:B:583:GLN:CG	1:B:587:GLN:HE21	2.18	0.55
1:B:583:GLN:O	1:B:587:GLN:HG3	2.06	0.55
1:A:531:HIS:HD2	1:A:556:LYS:NZ	2.05	0.55
1:B:574:HIS:HD2	1:B:578:ARG:NH2	2.05	0.54
1:A:598:PRO:HG3	1:B:598:PRO:HG3	1.89	0.54
1:B:574:HIS:CD2	1:B:578:ARG:NH2	2.76	0.54
1:A:484:GLU:HG3	1:A:521:THR:HG22	1.90	0.53
1:B:573:LEU:HD12	4:B:238:HOH:O	2.07	0.53
1:B:490:ASP:HA	1:B:627:HIS:HA	1.90	0.53
1:B:440:VAL:HG22	1:B:441:LYS:N	2.24	0.53
1:A:557:LEU:O	1:A:561:GLN:HG3	2.09	0.52
1:B:490:ASP:N	1:B:626:PHE:O	2.42	0.52
1:B:569:ARG:HH22	1:B:593:GLY:HA3	1.74	0.52
1:A:542:THR:HG23	1:A:545:LYS:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:568:LYS:HD2	1:B:569:ARG:H	1.75	0.51
1:B:569:ARG:HD2	4:B:196:HOH:O	2.09	0.51
1:A:671:ASP:HB3	4:A:118:HOH:O	2.11	0.51
1:B:531:HIS:HD2	1:B:556:LYS:HZ2	1.59	0.50
1:A:546:TYR:OH	1:A:574:HIS:HD2	1.95	0.49
1:B:532:TYR:O	4:B:243:HOH:O	2.20	0.49
1:A:575:ASP:CG	4:A:148:HOH:O	2.56	0.48
1:A:487:ILE:HD12	1:A:534:PHE:HE2	1.79	0.48
1:B:470:ASN:HD22	1:B:475:PHE:H	1.63	0.47
1:A:518:VAL:HG21	1:A:629:GLN:HE21	1.80	0.47
1:A:515:PRO:HB2	1:A:516:LYS:H	1.56	0.46
1:A:599:HIS:CE1	1:A:607:LEU:HG	2.50	0.46
1:A:595:GLU:OE2	4:A:22:HOH:O	2.21	0.45
1:A:561:GLN:CA	1:A:564:LEU:HD13	2.43	0.45
1:A:545:LYS:HE3	1:A:549:GLU:OE2	2.16	0.45
1:A:488:LEU:HD23	1:A:517:LYS:HG2	1.97	0.45
1:B:629:GLN:O	1:B:633:GLU:HG3	2.17	0.45
1:B:442:LYS:HE2	1:B:669:TYR:CD2	2.52	0.45
1:A:569:ARG:NE	1:B:472:ASN:OD1	2.46	0.44
1:A:577:ALA:O	1:A:580:HIS:HB2	2.17	0.44
1:B:447:VAL:HG13	1:B:448:PRO:HD2	1.99	0.44
1:B:521:THR:O	1:B:532:TYR:HA	2.18	0.44
1:A:458:ARG:HD3	1:A:458:ARG:HA	1.72	0.44
1:B:536:ASN:O	1:B:539:GLU:HB3	2.16	0.44
1:A:578:ARG:N	1:A:579:PRO:HD2	2.33	0.44
1:A:559:ARG:O	1:A:562:LEU:HB2	2.17	0.44
1:A:580:HIS:CD2	4:A:141:HOH:O	2.69	0.43
1:A:470:ASN:HD22	1:A:475:PHE:H	1.67	0.43
1:A:638:GLU:O	1:A:642:SER:HB2	2.16	0.43
1:A:578:ARG:HH21	1:B:454:ASN:CG	2.27	0.42
1:A:603:SER:N	1:A:604:PRO:HD3	2.33	0.42
1:B:443:LEU:O	1:B:444:ASP:HB2	2.18	0.42
1:A:458:ARG:HG3	4:A:97:HOH:O	2.20	0.42
1:A:554:ASN:O	1:A:558:GLN:HG3	2.20	0.42
1:B:451:LEU:HD11	1:B:669:TYR:CZ	2.55	0.41
1:B:445:LYS:HE2	1:B:610:ASN:ND2	2.36	0.41
1:A:489:TYR:HB3	1:A:626:PHE:O	2.21	0.41
1:A:600:PRO:HA	1:A:601:PRO:HD3	1.95	0.41
1:A:515:PRO:HG2	1:A:516:LYS:HE2	2.03	0.41
1:B:575:ASP:OD2	1:B:575:ASP:C	2.64	0.40
1:B:489:TYR:HB3	1:B:632:ALA:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:MET:HE3	1:A:553:MET:HB3	2.00	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	198/239 (83%)	192 (97%)	6 (3%)	0	100	100
1	B	198/239 (83%)	191 (96%)	7 (4%)	0	100	100
All	All	396/478 (83%)	383 (97%)	13 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	187/223 (84%)	178 (95%)	9 (5%)	23	15
1	B	191/223 (86%)	184 (96%)	7 (4%)	30	22
All	All	378/446 (85%)	362 (96%)	16 (4%)	26	19

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	458	ARG
1	A	473	GLU
1	A	521	THR
1	A	529	LEU
1	A	551	ASP
1	A	574	HIS
1	A	575	ASP
1	A	587	GLN
1	A	606	LEU
1	B	447	VAL
1	B	458	ARG
1	B	557	LEU
1	B	574	HIS
1	B	606	LEU
1	B	628	ASN
1	B	653	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	457	ASN
1	A	470	ASN
1	A	531	HIS
1	A	554	ASN
1	A	558	GLN
1	A	574	HIS
1	A	616	HIS
1	A	643	GLN
1	A	666	ASN
1	B	457	ASN
1	B	470	ASN
1	B	531	HIS
1	B	548	GLN
1	B	574	HIS
1	B	580	HIS
1	B	587	GLN
1	B	610	ASN
1	B	628	ASN

5.3.3 RNA ⓘ

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 6 ligands modelled in this entry, 1 is monoatomic - leaving 5 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	EDO	A	5	-	3,3,3	0.35	0	2,2,2	0.64	0
3	EDO	A	3	-	3,3,3	0.46	0	2,2,2	0.55	0
3	EDO	A	2	-	3,3,3	0.46	0	2,2,2	0.47	0
3	EDO	B	4	-	3,3,3	0.48	0	2,2,2	0.52	0
3	EDO	A	672	-	3,3,3	0.43	0	2,2,2	0.43	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	EDO	A	5	-	-	1/1/1/1	-
3	EDO	A	3	-	-	0/1/1/1	-
3	EDO	A	2	-	-	0/1/1/1	-
3	EDO	B	4	-	-	1/1/1/1	-
3	EDO	A	672	-	-	1/1/1/1	-

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
3	A	5	EDO	O1-C1-C2-O2
3	A	672	EDO	O1-C1-C2-O2
3	B	4	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	3	EDO	2	0
3	A	2	EDO	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	201/239 (84%)	0.84	30 (14%) 5 6	16, 38, 66, 91	1 (0%)
1	B	204/239 (85%)	0.53	18 (8%) 15 16	20, 35, 58, 75	0
All	All	405/478 (84%)	0.68	48 (11%) 9 9	16, 36, 65, 91	1 (0%)

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	623	GLY	5.9
1	A	564	LEU	5.4
1	A	563	ALA	5.0
1	A	448	PRO	4.9
1	B	562	LEU	4.4
1	B	440	VAL	4.1
1	A	515	PRO	4.0
1	A	627	HIS	3.9
1	A	542	THR	3.9
1	A	577	ALA	3.6
1	A	565	VAL	3.6
1	A	567	ARG	3.5
1	A	580	HIS	3.4
1	B	491	ASN	3.3
1	B	446	TRP	3.3
1	B	515	PRO	3.2
1	B	627	HIS	3.2
1	A	576	ASN	3.1
1	A	581	VAL	2.9
1	B	444	ASP	2.9
1	A	449	HIS	2.8
1	A	579	PRO	2.7
1	B	535	LEU	2.6
1	B	490	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	568	LYS	2.5
1	A	489	TYR	2.5
1	A	516	LYS	2.5
1	B	628	ASN	2.4
1	B	646	ASP	2.4
1	A	640	VAL	2.4
1	B	447	VAL	2.4
1	A	629	GLN	2.4
1	A	624	LYS	2.4
1	A	626	PHE	2.4
1	A	671	ASP	2.4
1	A	450	GLU	2.4
1	A	628	ASN	2.4
1	A	487	ILE	2.3
1	A	578	ARG	2.3
1	B	560	LEU	2.3
1	A	548	GLN	2.2
1	A	582	ALA	2.2
1	B	538	GLY	2.2
1	B	449	HIS	2.1
1	A	452	THR	2.1
1	B	539	GLU	2.1
1	B	540	THR	2.1
1	A	561	GLN	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 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
3	EDO	A	3	4/4	0.73	0.15	46,48,51,51	0
3	EDO	A	5	4/4	0.82	0.18	51,54,55,58	0
2	CA	A	1	1/1	0.84	0.12	64,64,64,64	0
3	EDO	A	672	4/4	0.86	0.16	39,41,43,48	0
3	EDO	B	4	4/4	0.87	0.11	41,46,48,53	0
3	EDO	A	2	4/4	0.89	0.12	38,42,44,49	0

6.5 Other polymers [i](#)

There are no such residues in this entry.