



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 11:11 AM UTC

PDB ID : 5T98 / pdb_00005t98
Title : Crystal structure of BuGH2Awt
Authors : Pluinage, B.; Boraston, A.B.
Deposited on : 2016-09-09
Resolution : 2.60 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

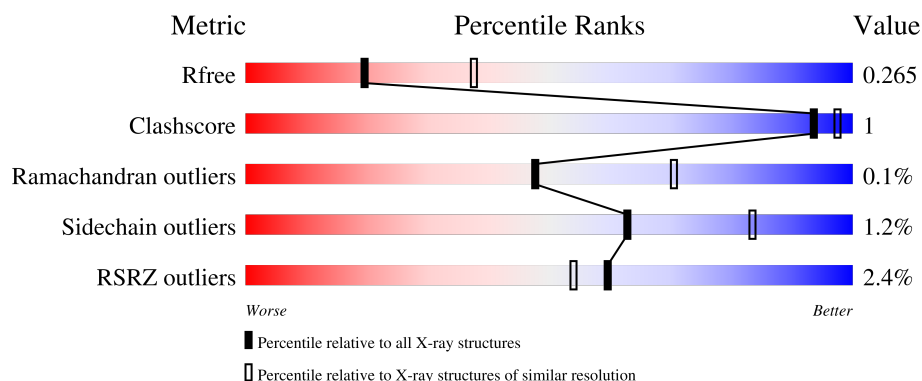
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

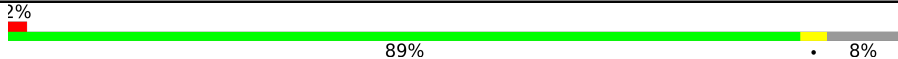
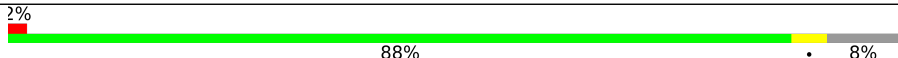
The reported resolution of this entry is 2.60 Å.

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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	822	
1	B	822	

2 Entry composition [i](#)

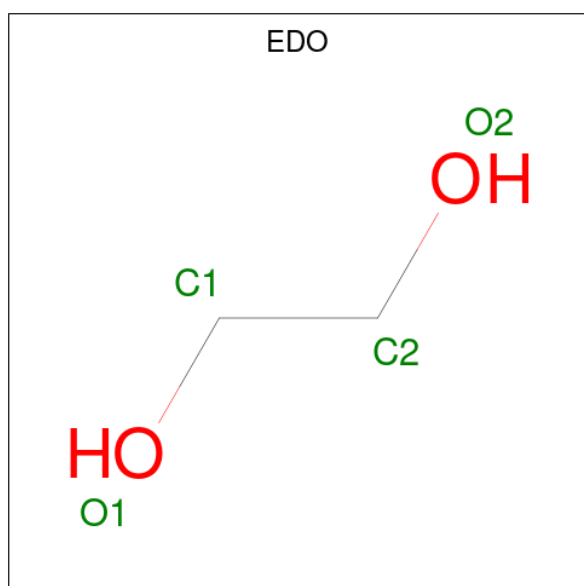
There are 4 unique types of molecules in this entry. The entry contains 12411 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycoside Hydrolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	756	Total	C	N	O	S	0	1	0
			5960	3801	1009	1121	29			
1	B	755	Total	C	N	O	S	0	1	0
			5972	3813	1013	1118	28			

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



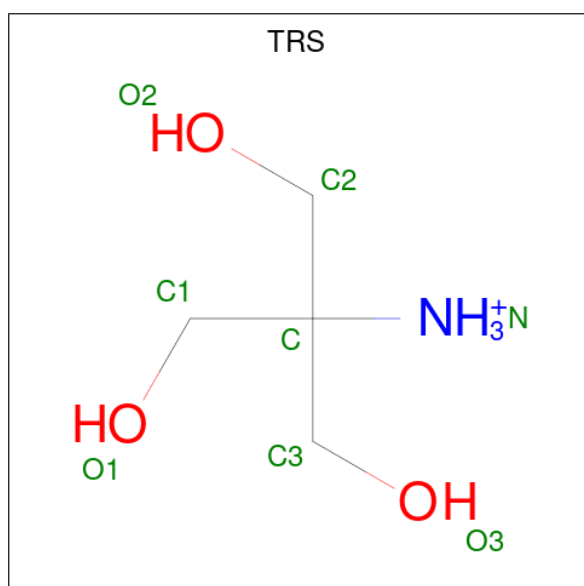
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		

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

- Molecule 3 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			8	4	1	3		
3	B	1	Total	C	N	O	0	0
			8	4	1	3		

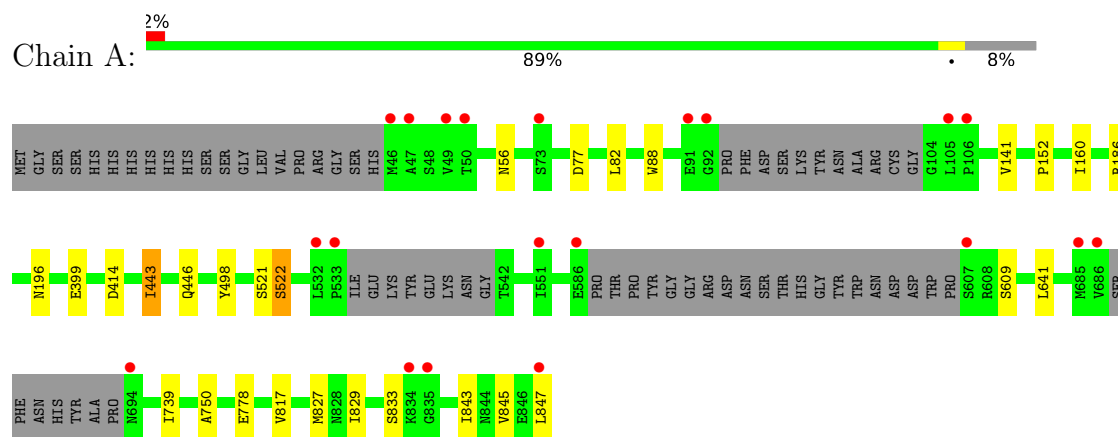
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	194	Total	O	0	0
			194	194		
4	B	205	Total	O	0	0
			205	205		

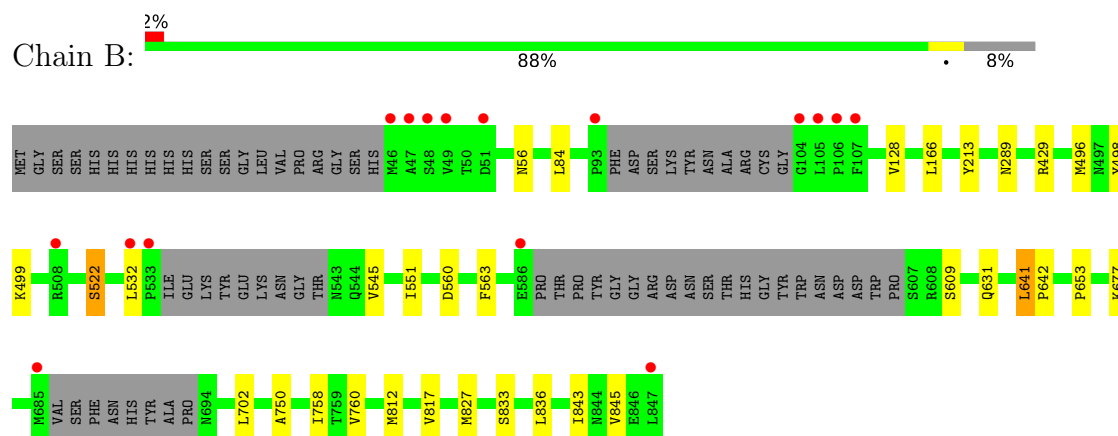
3 Residue-property plots [i](#)

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: Glycoside Hydrolase



• Molecule 1: Glycoside Hydrolase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	116.83Å 120.31Å 143.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	92.29 – 2.60 92.29 – 2.60	Depositor EDS
% Data completeness (in resolution range)	97.7 (92.29-2.60) 97.9 (92.29-2.60)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.90 (at 2.61Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.209 , 0.263 0.212 , 0.265	Depositor DCC
R_{free} test set	3126 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	47.5	Xtriage
Anisotropy	0.037	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 34.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.003 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12411	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.00% 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: TRS, 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	0.60	0/6113	0.78	0/8299
1	B	0.60	0/6126	0.78	0/8312
All	All	0.60	0/12239	0.78	0/16611

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	5960	0	5675	12	0
1	B	5972	0	5716	21	0
2	A	32	0	48	0	0
2	B	32	0	48	0	0
3	A	8	0	12	1	0
3	B	8	0	12	0	0
4	A	194	0	0	0	0
4	B	205	0	0	1	0
All	All	12411	0	11511	33	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 1.

All (33) 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:827:MET:HE3	1:A:829:ILE:HD11	1.55	0.87
1:A:56:ASN:HD21	1:A:196:ASN:HD22	1.28	0.78
1:B:758:ILE:HD11	1:B:843:ILE:HD11	1.70	0.73
1:B:545:VAL:HG13	1:B:551:ILE:HD11	1.82	0.59
1:B:833:SER:HB3	1:B:836:LEU:HD12	1.86	0.57
1:A:817:VAL:CG2	1:A:827:MET:HE1	2.37	0.54
1:A:827:MET:HE2	1:A:843:ILE:HB	1.89	0.54
1:B:213:TYR:CD1	1:B:429:ARG:HG3	2.43	0.54
1:B:750:ALA:HB2	1:B:845:VAL:HG12	1.92	0.52
1:B:429:ARG:HD3	4:B:1121:HOH:O	2.10	0.51
1:A:443:ILE:HD12	1:A:446:GLN:HG3	1.92	0.50
1:B:817:VAL:HB	1:B:827:MET:HE1	1.94	0.50
1:A:750:ALA:HB2	1:A:845:VAL:HG12	1.94	0.49
1:A:498:TYR:CE1	1:A:522:SER:HB2	2.49	0.48
1:A:141:VAL:HG11	1:A:160:ILE:HD13	1.97	0.47
1:A:817:VAL:HG21	1:A:827:MET:HE1	1.96	0.47
1:B:496:MET:HE2	1:B:499:LYS:HB2	1.96	0.46
1:B:496:MET:HE2	1:B:499:LYS:CB	2.46	0.45
1:A:399:GLU:HA	1:A:443:ILE:HG22	2.00	0.44
1:B:498:TYR:CE1	1:B:522:SER:HB2	2.53	0.44
1:B:641:LEU:HB2	1:B:642:PRO:HA	2.01	0.43
1:B:56:ASN:HB3	1:B:84:LEU:O	2.19	0.43
1:A:186:ARG:HH22	3:A:909:TRS:H12	1.84	0.42
1:B:532:LEU:HD21	1:B:653:PRO:HD2	2.02	0.42
1:B:833:SER:CB	1:B:836:LEU:HD12	2.48	0.42
1:B:677:LYS:HA	1:B:702:LEU:HD21	2.02	0.42
1:B:758:ILE:HD11	1:B:843:ILE:CD1	2.45	0.42
1:B:563:PHE:CE2	1:B:631:GLN:HG3	2.55	0.41
1:B:128:VAL:HG21	1:B:166:LEU:CD2	2.51	0.41
1:B:760:VAL:O	1:B:812:MET:HA	2.21	0.41
1:B:128:VAL:HG21	1:B:166:LEU:HD22	2.04	0.40
1:B:817:VAL:HB	1:B:827:MET:CE	2.52	0.40
1:A:739:ILE:HD11	1:A:833:SER:CB	2.52	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	747/822 (91%)	718 (96%)	27 (4%)	2 (0%)	36	58
1	B	746/822 (91%)	722 (97%)	24 (3%)	0	100	100
All	All	1493/1644 (91%)	1440 (96%)	51 (3%)	2 (0%)	48	70

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	521	SER
1	A	152	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	624/705 (88%)	614 (98%)	10 (2%)	55	79
1	B	626/705 (89%)	621 (99%)	5 (1%)	73	88
All	All	1250/1410 (89%)	1235 (99%)	15 (1%)	63	83

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	77	ASP
1	A	82	LEU
1	A	88	TRP
1	A	414	ASP

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Mol	Chain	Res	Type
1	A	443	ILE
1	A	522	SER
1	A	609	SER
1	A	641	LEU
1	A	778	GLU
1	A	847	LEU
1	B	289	ASN
1	B	522	SER
1	B	560	ASP
1	B	609	SER
1	B	641	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	86	HIS
1	A	196	ASN
1	A	283	ASN
1	A	490	GLN
1	A	651	ASN
1	A	818	GLN
1	A	828	ASN
1	B	252	GLN
1	B	631	GLN
1	B	651	ASN
1	B	697	GLN
1	B	818	GLN
1	B	828	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

18 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	EDO	B	901	-	3,3,3	0.44	0	2,2,2	0.33	0
2	EDO	B	907	-	3,3,3	0.49	0	2,2,2	0.49	0
2	EDO	A	904	-	3,3,3	0.48	0	2,2,2	0.21	0
2	EDO	A	906	-	3,3,3	0.50	0	2,2,2	0.20	0
2	EDO	B	904	-	3,3,3	0.45	0	2,2,2	0.42	0
2	EDO	A	908	-	3,3,3	0.42	0	2,2,2	0.36	0
2	EDO	B	908	-	3,3,3	0.46	0	2,2,2	0.28	0
2	EDO	A	903	-	3,3,3	0.43	0	2,2,2	0.33	0
3	TRS	A	909	-	7,7,7	0.63	0	9,9,9	2.43	4 (44%)
2	EDO	B	903	-	3,3,3	0.62	0	2,2,2	0.15	0
2	EDO	A	905	-	3,3,3	0.35	0	2,2,2	0.45	0
2	EDO	B	906	-	3,3,3	0.35	0	2,2,2	0.40	0
2	EDO	B	905	-	3,3,3	0.44	0	2,2,2	0.14	0
2	EDO	B	902	-	3,3,3	0.51	0	2,2,2	0.19	0
2	EDO	A	901	-	3,3,3	0.41	0	2,2,2	0.31	0
3	TRS	B	909	-	7,7,7	0.54	0	9,9,9	1.71	3 (33%)
2	EDO	A	907	-	3,3,3	0.38	0	2,2,2	0.44	0
2	EDO	A	902	-	3,3,3	0.54	0	2,2,2	0.15	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	EDO	B	901	-	-	0/1/1/1	-
2	EDO	B	907	-	-	1/1/1/1	-
2	EDO	A	904	-	-	1/1/1/1	-
2	EDO	A	906	-	-	0/1/1/1	-
2	EDO	B	904	-	-	0/1/1/1	-
2	EDO	A	908	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	EDO	B	908	-	-	1/1/1/1	-
2	EDO	A	903	-	-	1/1/1/1	-
3	TRS	A	909	-	-	4/9/9/9	-
2	EDO	B	903	-	-	1/1/1/1	-
2	EDO	A	905	-	-	1/1/1/1	-
2	EDO	B	906	-	-	0/1/1/1	-
2	EDO	B	905	-	-	0/1/1/1	-
2	EDO	B	902	-	-	1/1/1/1	-
2	EDO	A	901	-	-	0/1/1/1	-
3	TRS	B	909	-	-	5/9/9/9	-
2	EDO	A	907	-	-	0/1/1/1	-
2	EDO	A	902	-	-	1/1/1/1	-

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	909	TRS	C1-C-N	4.28	119.09	108.17
3	A	909	TRS	C3-C-C2	3.91	121.08	110.66
3	A	909	TRS	C2-C-N	-3.38	99.54	108.17
3	B	909	TRS	C3-C-N	3.02	115.88	108.17
3	B	909	TRS	O3-C3-C	2.46	117.73	110.88
3	B	909	TRS	C3-C-C2	-2.38	104.31	110.66
3	A	909	TRS	C3-C-C1	-2.11	105.04	110.66

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	909	TRS	C1-C-C3-O3
3	A	909	TRS	C2-C-C3-O3
2	A	904	EDO	O1-C1-C2-O2
2	B	902	EDO	O1-C1-C2-O2
2	B	908	EDO	O1-C1-C2-O2
3	A	909	TRS	N-C-C1-O1
2	B	903	EDO	O1-C1-C2-O2
3	B	909	TRS	C2-C-C1-O1
3	B	909	TRS	C3-C-C1-O1
2	A	902	EDO	O1-C1-C2-O2
3	A	909	TRS	N-C-C3-O3
3	B	909	TRS	N-C-C1-O1

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Mol	Chain	Res	Type	Atoms
2	A	903	EDO	O1-C1-C2-O2
2	A	905	EDO	O1-C1-C2-O2
2	A	908	EDO	O1-C1-C2-O2
3	B	909	TRS	C1-C-C3-O3
2	B	907	EDO	O1-C1-C2-O2
3	B	909	TRS	N-C-C3-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	909	TRS	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	756/822 (91%)	-0.08	20 (2%) 57 51	19, 45, 69, 103	1 (0%)
1	B	755/822 (91%)	-0.12	16 (2%) 63 58	20, 45, 67, 107	1 (0%)
All	All	1511/1644 (91%)	-0.10	36 (2%) 59 54	19, 45, 68, 107	2 (0%)

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	105	LEU	4.6
1	B	93	PRO	4.4
1	A	105	LEU	4.0
1	A	533	PRO	3.6
1	A	686	VAL	3.6
1	B	49	VAL	3.4
1	A	92	GLY	3.4
1	B	47	ALA	3.4
1	B	106	PRO	3.4
1	B	533	PRO	3.3
1	A	91	GLU	3.2
1	B	586	GLU	3.2
1	B	46	MET	3.1
1	A	847	LEU	3.0
1	A	50	THR	3.0
1	B	51	ASP	2.9
1	A	586	GLU	2.8
1	B	107	PHE	2.8
1	A	685	MET	2.7
1	A	551	ILE	2.7
1	B	685	MET	2.6
1	A	46	MET	2.5
1	A	49	VAL	2.5
1	A	835	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	508[A]	ARG	2.4
1	A	532	LEU	2.4
1	B	104	GLY	2.4
1	A	106	PRO	2.3
1	A	834	LYS	2.2
1	B	847	LEU	2.2
1	A	47	ALA	2.1
1	B	532	LEU	2.1
1	B	48	SER	2.1
1	A	694	ASN	2.0
1	A	73	SER	2.0
1	A	607	SER	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
2	EDO	B	904	4/4	0.59	0.27	63,66,66,68	0
2	EDO	B	907	4/4	0.66	0.28	60,65,65,66	0
3	TRS	B	909	8/8	0.77	0.18	58,61,63,65	0
2	EDO	A	906	4/4	0.80	0.24	47,48,48,50	0
3	TRS	A	909	8/8	0.81	0.21	63,70,76,77	0
2	EDO	A	905	4/4	0.86	0.14	39,41,41,44	0
2	EDO	B	903	4/4	0.87	0.16	50,52,55,57	0
2	EDO	B	908	4/4	0.88	0.15	58,58,58,59	0
2	EDO	A	908	4/4	0.90	0.14	56,56,57,58	0
2	EDO	B	905	4/4	0.91	0.10	41,42,43,43	0
2	EDO	B	906	4/4	0.92	0.10	55,55,56,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	A	903	4/4	0.93	0.08	49,50,50,51	0
2	EDO	B	902	4/4	0.94	0.10	43,46,46,47	0
2	EDO	A	902	4/4	0.94	0.07	42,43,44,45	0
2	EDO	B	901	4/4	0.94	0.09	42,43,43,44	0
2	EDO	A	901	4/4	0.96	0.07	34,36,37,38	0
2	EDO	A	907	4/4	0.97	0.07	40,40,41,41	0
2	EDO	A	904	4/4	0.97	0.07	35,37,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.