



Full wwPDB X-ray Structure Validation Report ⓘ

May 25, 2020 – 04:54 am BST

PDB ID : 5N6T
Title : Thermotoga maritima family 1 glycoside hydrolase complexed with a cyclophellitol analogue transition state mimic
Authors : Offen, W.; Davies, G.
Deposited on : 2017-02-16
Resolution : 2.10 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

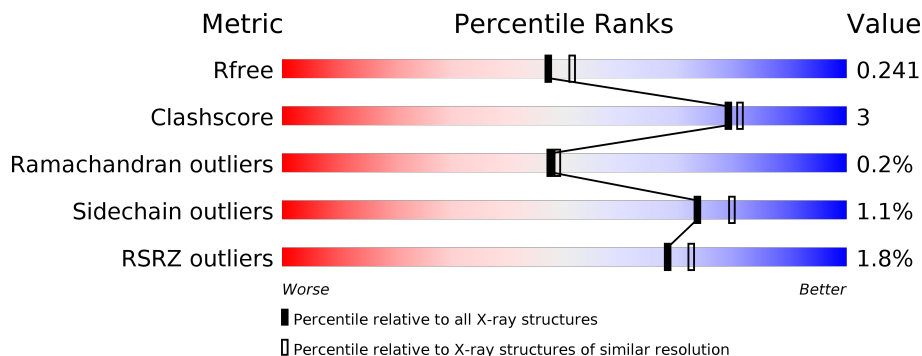
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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 on 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	468	 2% 88% 6% 5%
1	B	468	 2% 89% 6% 5%

2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 7491 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 Beta-glucosidase A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	443	Total	C	N	O	S	0	2	0
			3579	2327	602	644	6			
1	B	445	Total	C	N	O	S	0	5	1
			3596	2335	609	646	6			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-21	MET	-	initiating methionine	UNP Q08638
A	-20	GLY	-	expression tag	UNP Q08638
A	-19	SER	-	expression tag	UNP Q08638
A	-18	SER	-	expression tag	UNP Q08638
A	-17	HIS	-	expression tag	UNP Q08638
A	-16	HIS	-	expression tag	UNP Q08638
A	-15	HIS	-	expression tag	UNP Q08638
A	-14	HIS	-	expression tag	UNP Q08638
A	-13	HIS	-	expression tag	UNP Q08638
A	-12	HIS	-	expression tag	UNP Q08638
A	-11	SER	-	expression tag	UNP Q08638
A	-10	SER	-	expression tag	UNP Q08638
A	-9	GLY	-	expression tag	UNP Q08638
A	-8	LEU	-	expression tag	UNP Q08638
A	-7	VAL	-	expression tag	UNP Q08638
A	-6	PRO	-	expression tag	UNP Q08638
A	-5	ARG	-	expression tag	UNP Q08638
A	-4	GLY	-	expression tag	UNP Q08638
A	-3	SER	-	expression tag	UNP Q08638
A	-2	HIS	-	expression tag	UNP Q08638
A	-1	MET	-	expression tag	UNP Q08638
A	0	ALA	-	expression tag	UNP Q08638
A	1	SER	-	expression tag	UNP Q08638
B	-21	MET	-	initiating methionine	UNP Q08638
B	-20	GLY	-	expression tag	UNP Q08638

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-19	SER	-	expression tag	UNP Q08638
B	-18	SER	-	expression tag	UNP Q08638
B	-17	HIS	-	expression tag	UNP Q08638
B	-16	HIS	-	expression tag	UNP Q08638
B	-15	HIS	-	expression tag	UNP Q08638
B	-14	HIS	-	expression tag	UNP Q08638
B	-13	HIS	-	expression tag	UNP Q08638
B	-12	HIS	-	expression tag	UNP Q08638
B	-11	SER	-	expression tag	UNP Q08638
B	-10	SER	-	expression tag	UNP Q08638
B	-9	GLY	-	expression tag	UNP Q08638
B	-8	LEU	-	expression tag	UNP Q08638
B	-7	VAL	-	expression tag	UNP Q08638
B	-6	PRO	-	expression tag	UNP Q08638
B	-5	ARG	-	expression tag	UNP Q08638
B	-4	GLY	-	expression tag	UNP Q08638
B	-3	SER	-	expression tag	UNP Q08638
B	-2	HIS	-	expression tag	UNP Q08638
B	-1	MET	-	expression tag	UNP Q08638
B	0	ALA	-	expression tag	UNP Q08638
B	1	SER	-	expression tag	UNP Q08638

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

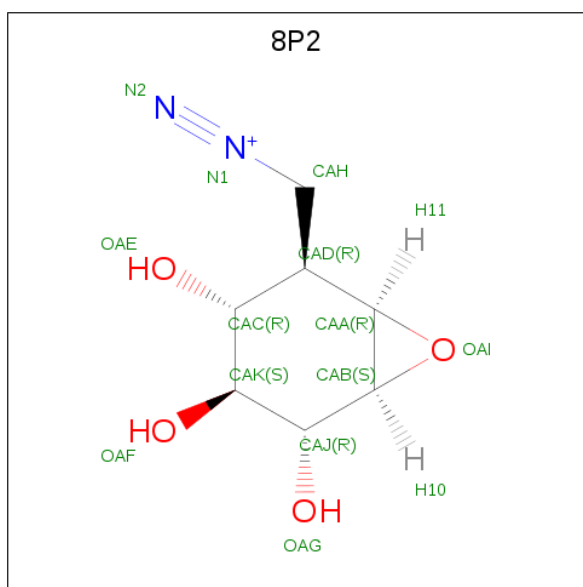
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cl 1 1	0	0

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 8 4 4	0	1
3	A	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0

- Molecule 4 is [(1 {R},2 {R},3 {R},4 {S},5 {R},6 {S})-3,4,5-tris(oxidanyl)-7-oxabicyclo[4.1.0]heptan-2-yl]methanediazonium (three-letter code: 8P2) (formula: C₇H₁₁N₂O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
4	A	1	12	7	1	4	0	0
4	B	1	12	7	1	4	0	0

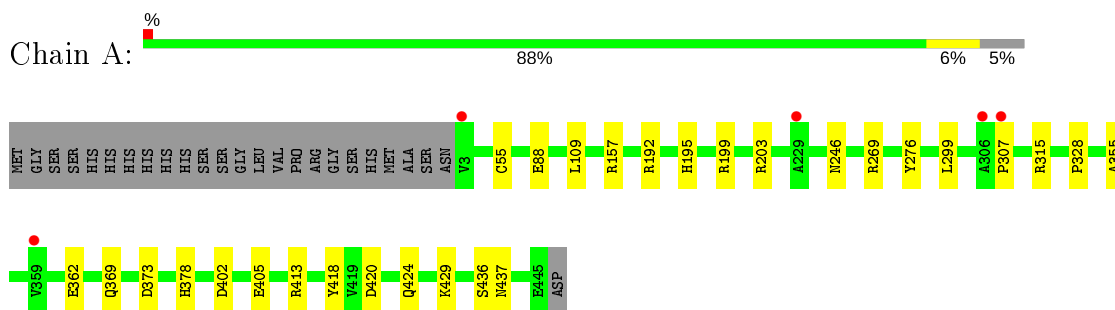
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	142	143	143	0	1
5	B	120	120	120	0	0

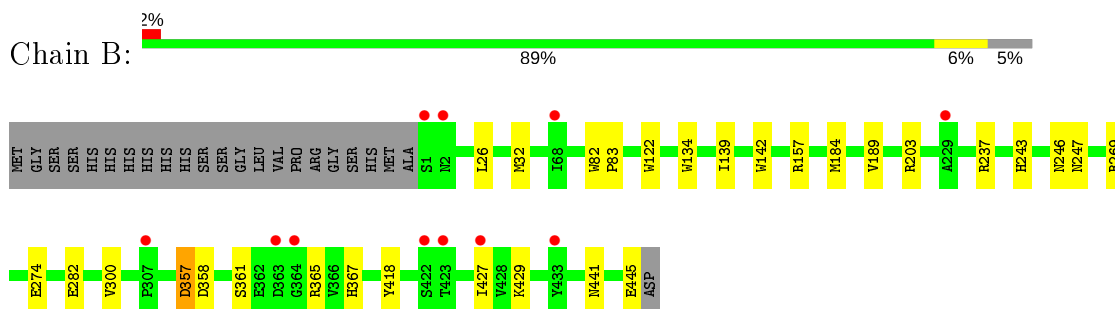
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Beta-glucosidase A



- Molecule 1: Beta-glucosidase A



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	94.84Å 94.84Å 112.93Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	56.41 – 2.10 48.52 – 2.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (56.41-2.10) 100.0 (48.52-2.10)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.24 (at 2.10Å)	Xtrriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.184 , 0.237 0.194 , 0.241	Depositor DCC
R_{free} test set	3042 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	31.5	Xtrriage
Anisotropy	0.169	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 52.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.016 for k,h,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7491	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: 8P2, EDO, CL

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	0.84	0/3691	0.87	5/5025 (0.1%)
1	B	0.80	0/3708	0.84	1/5052 (0.0%)
All	All	0.82	0/7399	0.86	6/10077 (0.1%)

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	192	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	A	199	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	B	157	ARG	NE-CZ-NH1	5.59	123.09	120.30
1	A	157	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	A	269	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	A	199	ARG	NE-CZ-NH2	-5.31	117.64	120.30

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	3579	0	3354	11	0
1	B	3596	0	3350	27	0
2	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	16	0	24	1	0
3	B	12	0	18	1	0
4	A	12	0	0	1	0
4	B	12	0	0	0	0
5	A	143	0	0	3	0
5	B	120	0	0	3	0
All	All	7491	0	6746	39	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 3.

All (39) 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:358:ASP:OD2	1:B:429:LYS:NZ	1.81	1.11
1:B:365[B]:ARG:HD3	1:B:367:HIS:CE1	1.88	1.08
1:B:365[A]:ARG:HE	1:B:367:HIS:HE1	1.15	0.92
1:B:365[B]:ARG:HD3	1:B:367:HIS:HE1	1.34	0.89
3:A:503[A]:EDO:O1	5:A:601:HOH:O	2.04	0.75
1:B:365[A]:ARG:HE	1:B:367:HIS:CE1	2.03	0.74
1:B:365[B]:ARG:HH11	1:B:367:HIS:CE1	2.09	0.71
1:B:365[B]:ARG:HH11	1:B:367:HIS:HE1	1.38	0.70
1:B:203:ARG:NH1	5:B:602:HOH:O	2.20	0.61
1:B:441:ASN:ND2	1:B:445:GLU:O	2.35	0.59
1:B:365[B]:ARG:CD	1:B:367:HIS:HE1	2.13	0.54
1:B:243:HIS:O	1:B:247:ASN:HB2	2.09	0.52
1:B:365[B]:ARG:CD	1:B:367:HIS:CE1	2.79	0.50
1:A:437:ASN:HB3	5:A:694:HOH:O	2.10	0.50
1:A:405:GLU:OE2	4:A:505:8P2:N1	2.44	0.50
1:B:445:GLU:N	5:B:601:HOH:O	2.14	0.49
1:A:328:PRO:HA	1:A:378:HIS:NE2	2.28	0.48
1:B:237:ARG:HH11	3:B:501:EDO:H12	1.79	0.47
1:B:269[A]:ARG:NH2	1:B:274:GLU:O	2.46	0.47
1:A:362:GLU:O	5:A:602:HOH:O	2.21	0.47
1:B:282:GLU:HG3	5:B:705:HOH:O	2.15	0.46
1:B:357:ASP:OD1	1:B:357:ASP:N	2.49	0.46
1:A:369:GLN:NE2	1:A:373:ASP:OD1	2.44	0.45
1:A:55:CYS:SG	1:A:402:ASP:O	2.75	0.45
1:A:420:ASP:O	1:A:424:GLN:N	2.46	0.45
1:B:139:ILE:HA	1:B:142:TRP:CE3	2.52	0.45
1:A:299:LEU:HB2	1:A:315:ARG:HD3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:184:MET:SD	1:B:189:VAL:HG11	2.59	0.43
1:B:184:MET:HE2	1:B:184:MET:HB2	1.88	0.43
1:A:355:ALA:HA	1:A:413:ARG:O	2.19	0.43
1:B:134:TRP:CD2	1:B:139:ILE:HD13	2.54	0.42
1:B:361:SER:CB	1:B:367:HIS:HD2	2.33	0.42
1:B:365[A]:ARG:NE	1:B:367:HIS:CE1	2.77	0.42
1:B:134:TRP:CE3	1:B:139:ILE:HD13	2.55	0.41
1:A:195:HIS:CE1	1:A:276:TYR:HB2	2.56	0.41
1:B:418:TYR:HB3	1:B:427:ILE:HB	2.01	0.41
1:B:82:TRP:N	1:B:83:PRO:HD2	2.36	0.41
1:A:418:TYR:HB2	1:A:429:LYS:HE2	2.04	0.40
1:B:26:LEU:HD21	1:B:32:MET:HG2	2.03	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	443/468 (95%)	429 (97%)	13 (3%)	1 (0%)	47	49
1	B	446/468 (95%)	432 (97%)	13 (3%)	1 (0%)	47	49
All	All	889/936 (95%)	861 (97%)	26 (3%)	2 (0%)	47	49

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	122	TRP
1	A	307	PRO

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	355/399 (89%)	349 (98%)	6 (2%)	60	67
1	B	354/399 (89%)	351 (99%)	3 (1%)	81	86
All	All	709/798 (89%)	700 (99%)	9 (1%)	73	75

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	88	GLU
1	A	109	LEU
1	A	203[A]	ARG
1	A	203[B]	ARG
1	A	246	ASN
1	A	436	SER
1	B	246	ASN
1	B	300	VAL
1	B	357	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry i

Of 10 ligands modelled in this entry, 1 is monoatomic - leaving 9 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	503[B]	-	3,3,3	0.57	0	2,2,2	0.08	0
3	EDO	A	502	-	3,3,3	0.77	0	2,2,2	0.55	0
3	EDO	B	502	-	3,3,3	1.01	0	2,2,2	0.61	0
4	8P2	B	504	-	13,13,14	1.31	1 (7%)	15,20,21	2.38	4 (26%)
3	EDO	B	501	-	3,3,3	0.43	0	2,2,2	0.81	0
4	8P2	A	505	-	13,13,14	1.45	2 (15%)	15,20,21	1.71	3 (20%)
3	EDO	B	503	-	3,3,3	0.62	0	2,2,2	0.12	0
3	EDO	A	504	-	3,3,3	0.34	0	2,2,2	0.87	0
3	EDO	A	503[A]	-	3,3,3	0.57	0	2,2,2	0.26	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	A	503[B]	-	-	0/1/1/1	-
3	EDO	A	502	-	-	1/1/1/1	-
3	EDO	B	502	-	-	1/1/1/1	-
4	8P2	B	504	-	-	1/2/27/28	0/2/2/2
3	EDO	B	501	-	-	1/1/1/1	-
4	8P2	A	505	-	-	1/2/27/28	0/2/2/2
3	EDO	B	503	-	-	1/1/1/1	-
3	EDO	A	504	-	-	1/1/1/1	-
3	EDO	A	503[A]	-	-	0/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	504	8P2	CAA-CAB	3.73	1.54	1.46
4	A	505	8P2	CAA-CAB	3.02	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	505	8P2	OAG-CAJ	2.84	1.49	1.43

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	504	8P2	OAI-CAB-CAJ	-5.98	107.50	115.73
4	B	504	8P2	CAA-OAI-CAB	4.17	64.63	60.78
4	B	504	8P2	OAI-CAB-CAA	-3.74	56.64	59.61
4	A	505	8P2	CAJ-CAB-CAA	2.94	124.14	120.00
4	A	505	8P2	CAA-OAI-CAB	2.93	63.49	60.78
4	A	505	8P2	OAI-CAA-CAD	2.80	120.14	116.49
4	B	504	8P2	CAJ-CAB-CAA	2.70	123.81	120.00

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	505	8P2	CAA-CAD-CAH-N1
3	A	502	EDO	O1-C1-C2-O2
3	B	502	EDO	O1-C1-C2-O2
3	A	504	EDO	O1-C1-C2-O2
3	B	501	EDO	O1-C1-C2-O2
3	B	503	EDO	O1-C1-C2-O2
4	B	504	8P2	CAA-CAD-CAH-N1

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	501	EDO	1	0
4	A	505	8P2	1	0
3	A	503[A]	EDO	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	443/468 (94%)	-0.27	5 (1%) 80 84	18, 33, 55, 71	20 (4%)
1	B	445/468 (95%)	-0.03	11 (2%) 57 62	19, 38, 61, 84	31 (6%)
All	All	888/936 (94%)	-0.15	16 (1%) 68 72	18, 36, 60, 84	51 (5%)

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	307	PRO	5.3
1	B	1	SER	5.0
1	A	307	PRO	4.1
1	B	68	ILE	4.1
1	B	364[A]	GLY	3.6
1	A	229	ALA	3.4
1	B	422	SER	2.6
1	A	306	ALA	2.6
1	A	3	VAL	2.4
1	B	433	TYR	2.4
1	B	427	ILE	2.3
1	B	363	ASP	2.2
1	A	359	VAL	2.2
1	B	229	ALA	2.2
1	B	2[A]	ASN	2.1
1	B	423	THR	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 carbohydrates 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	EDO	A	502	4/4	0.77	0.22	52,54,55,57	0
3	EDO	B	502	4/4	0.78	0.14	43,45,48,53	0
3	EDO	A	503[B]	4/4	0.82	0.28	44,45,46,47	4
3	EDO	A	503[A]	4/4	0.82	0.28	45,51,53,54	4
3	EDO	B	503	4/4	0.88	0.66	29,29,29,31	4
3	EDO	A	504	4/4	0.90	0.21	34,34,37,42	4
3	EDO	B	501	4/4	0.91	0.22	32,32,33,33	4
4	8P2	A	505	12/13	0.95	0.10	28,37,39,44	0
4	8P2	B	504	12/13	0.96	0.08	24,29,33,35	1
2	CL	A	501	1/1	0.98	0.07	49,49,49,49	0

6.5 Other polymers [i](#)

There are no such residues in this entry.