



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 12, 2022 – 01:07 pm BST

PDB ID : 7OCN
Title : Crystal structure of the bifunctional mannitol-1-phosphate dehydrogenase/phosphatase MtlD from *Acinetobacter baumannii*
Authors : Tam, H.K.; Mueller, V.; Pos, K.M.
Deposited on : 2021-04-28
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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.27
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.27

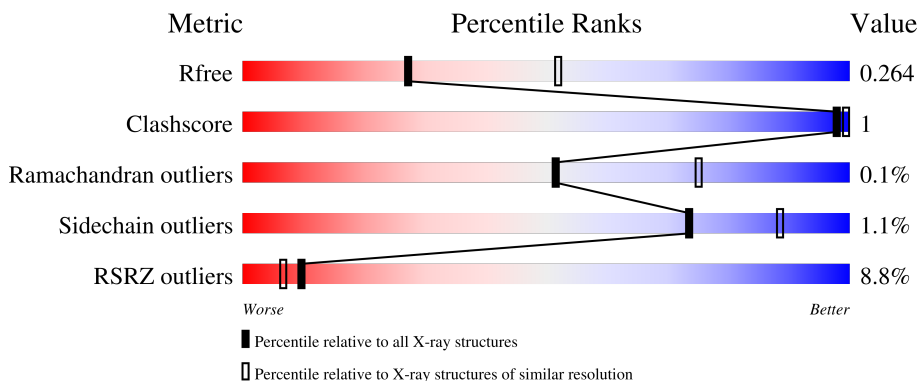
1 Overall quality at a glance

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}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (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	727	 6% 92% 5%
1	B	727	 11% 91% 7%

2 Entry composition i

There are 8 unique types of molecules in this entry. The entry contains 11171 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 HAD hydrolase, family IA, variant 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	690	Total	C	N	O	S	0	0	0
			5567	3535	951	1048	33			
1	B	679	Total	C	N	O	S	0	0	0
			5486	3485	939	1030	32			

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP D0C7J2
A	2	VAL	-	expression tag	UNP D0C7J2
A	717	ALA	-	expression tag	UNP D0C7J2
A	718	ALA	-	expression tag	UNP D0C7J2
A	719	ALA	-	expression tag	UNP D0C7J2
A	720	LEU	-	expression tag	UNP D0C7J2
A	721	GLU	-	expression tag	UNP D0C7J2
A	722	HIS	-	expression tag	UNP D0C7J2
A	723	HIS	-	expression tag	UNP D0C7J2
A	724	HIS	-	expression tag	UNP D0C7J2
A	725	HIS	-	expression tag	UNP D0C7J2
A	726	HIS	-	expression tag	UNP D0C7J2
A	727	HIS	-	expression tag	UNP D0C7J2
B	1	MET	-	initiating methionine	UNP D0C7J2
B	2	VAL	-	expression tag	UNP D0C7J2
B	717	ALA	-	expression tag	UNP D0C7J2
B	718	ALA	-	expression tag	UNP D0C7J2
B	719	ALA	-	expression tag	UNP D0C7J2
B	720	LEU	-	expression tag	UNP D0C7J2
B	721	GLU	-	expression tag	UNP D0C7J2
B	722	HIS	-	expression tag	UNP D0C7J2
B	723	HIS	-	expression tag	UNP D0C7J2
B	724	HIS	-	expression tag	UNP D0C7J2
B	725	HIS	-	expression tag	UNP D0C7J2
B	726	HIS	-	expression tag	UNP D0C7J2

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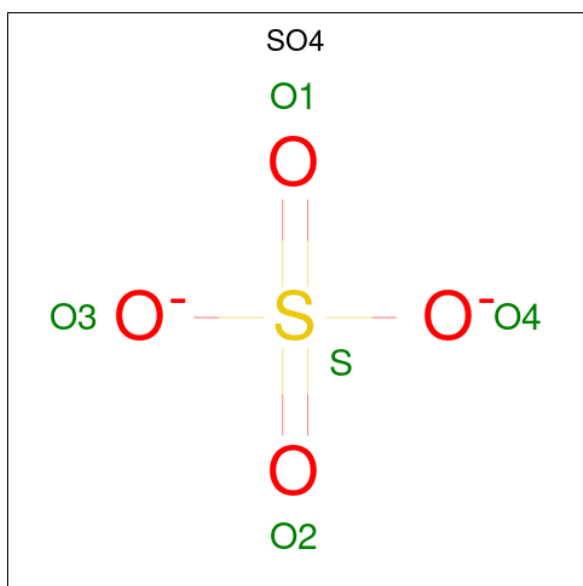
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Chain	Residue	Modelled	Actual	Comment	Reference
B	727	HIS	-	expression tag	UNP D0C7J2

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O S 5 4 1	0	0
3	A	1	Total O S 5 4 1	0	0
3	B	1	Total O S 5 4 1	0	0
3	B	1	Total O S 5 4 1	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	B	3	Total Cl 3 3	0	0

- Molecule 6 is BROMIDE ION (three-letter code: BR) (formula: Br).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total Br 1 1	0	0

- Molecule 7 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: C₈H₁₈N₂O₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
7	B	1	15	8	2	4	1	0	0

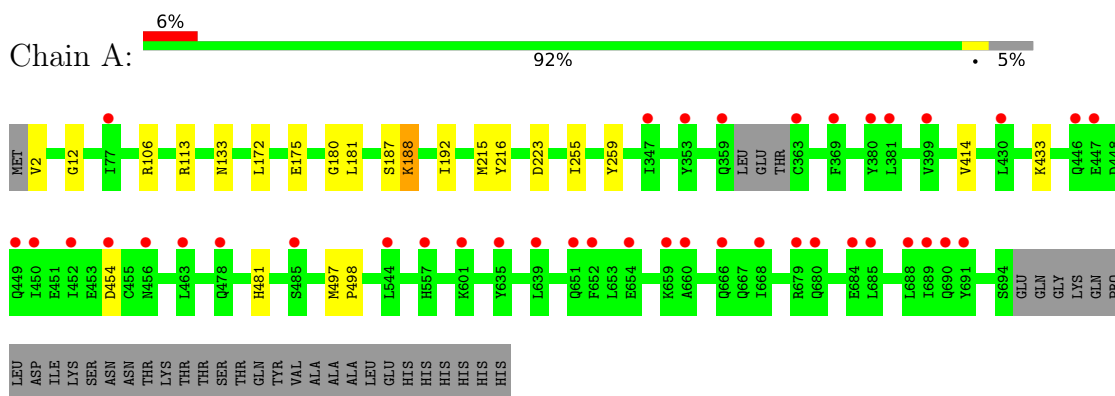
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	51	Total	O	0	0
			51	51		
8	B	16	Total	O	0	0
			16	16		

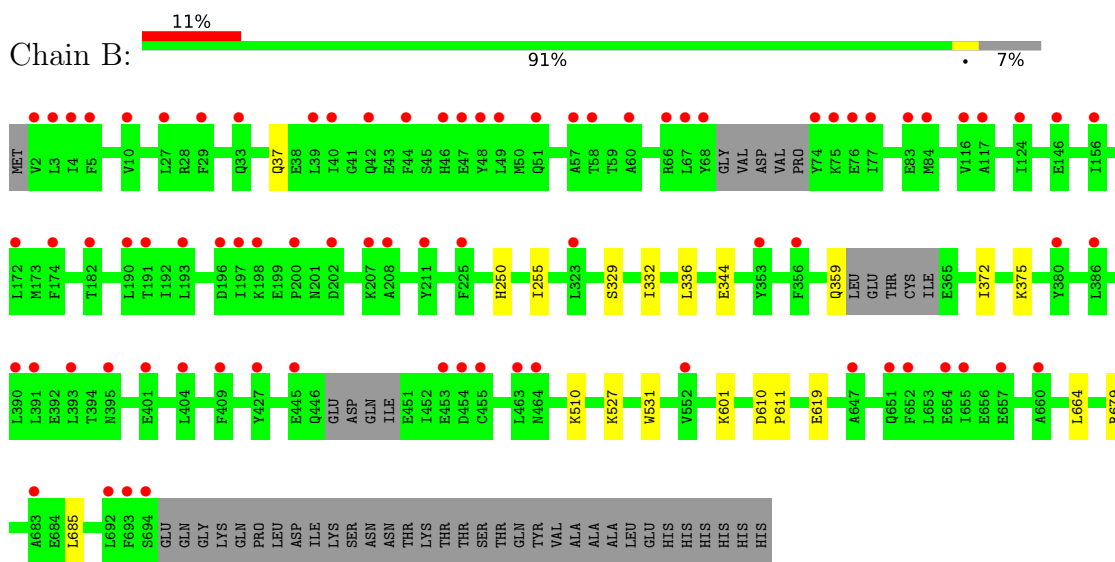
3 Residue-property plots [i](#)

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: HAD hydrolase, family IA, variant 3



- Molecule 1: HAD hydrolase, family IA, variant 3



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	99.50Å 157.42Å 219.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.52 – 2.60 48.52 – 2.60	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.52-2.60) 100.0 (48.52-2.60)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.21 (at 2.61Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.237 , 0.267 0.237 , 0.264	Depositor DCC
R_{free} test set	2615 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	69.6	Xtriage
Anisotropy	0.528	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	11171	wwPDB-VP
Average B, all atoms (Å ²)	101.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.76% 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: BR, EPE, SO4, EDO, MG, 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	0.65	0/5672	0.68	0/7657
1	B	0.66	0/5588	0.69	0/7538
All	All	0.66	0/11260	0.69	0/15195

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 [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	5567	0	5535	9	0
1	B	5486	0	5456	7	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
3	A	10	0	0	0	0
3	B	10	0	0	0	0
4	A	4	0	6	0	0
4	B	4	0	6	0	0
5	A	1	0	0	0	0
5	B	3	0	0	0	0
6	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	B	15	0	18	0	0
8	A	51	0	0	0	0
8	B	16	0	0	0	0
All	All	11171	0	11021	16	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 (16) 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:255:ILE:HG21	1:B:372:ILE:HG21	1.92	0.51
1:B:250:HIS:CD2	1:B:336:LEU:HD11	2.48	0.49
1:A:255:ILE:HD11	1:A:414:VAL:HG11	1.96	0.48
1:B:336:LEU:HD13	1:B:344:GLU:HG3	1.96	0.47
1:A:175:GLU:HG2	1:A:181:LEU:N	2.30	0.46
1:A:259:TYR:CE2	1:A:414:VAL:HG13	2.52	0.45
1:B:664:LEU:HD11	1:B:685:LEU:HD23	2.00	0.44
1:A:187:SER:O	1:A:188:LYS:HB2	2.17	0.43
1:A:172:LEU:HD22	1:A:192:ILE:HD11	2.00	0.43
1:A:497:MET:HB2	1:A:498:PRO:HD3	2.01	0.42
1:A:106:ARG:NE	1:A:223:ASP:OD1	2.49	0.42
1:B:329:SER:HB2	1:B:332:ILE:HD11	2.02	0.41
1:B:610:ASP:N	1:B:611:PRO:HD3	2.35	0.41
1:B:527:LYS:O	1:B:531:TRP:HB3	2.21	0.41
1:A:12:GLY:HA2	1:A:113:ARG:O	2.21	0.41
1:A:175:GLU:HG2	1:A:180:GLY:C	2.41	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	686/727 (94%)	656 (96%)	28 (4%)	2 (0%)	41	64
1	B	671/727 (92%)	638 (95%)	33 (5%)	0	100	100
All	All	1357/1454 (93%)	1294 (95%)	61 (4%)	2 (0%)	51	75

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	188	LYS
1	A	454	ASP

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	609/642 (95%)	603 (99%)	6 (1%)	76	90
1	B	599/642 (93%)	592 (99%)	7 (1%)	71	87
All	All	1208/1284 (94%)	1195 (99%)	13 (1%)	73	88

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

Mol	Chain	Res	Type
1	A	2	VAL
1	A	133	ASN
1	A	215	MET
1	A	216	TYR
1	A	433	LYS
1	A	481	HIS
1	B	37	GLN
1	B	359	GLN
1	B	375	LYS
1	B	510	LYS
1	B	601	LYS
1	B	619	GLU
1	B	679	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	133	ASN
1	A	462	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 15 ligands modelled in this entry, 8 are monoatomic - leaving 7 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
7	EPE	B	803	-	15,15,15	1.30	3 (20%)	18,20,20	2.19	5 (27%)
3	SO4	A	802	-	4,4,4	0.39	0	6,6,6	0.05	0
3	SO4	B	804	-	4,4,4	0.39	0	6,6,6	0.05	0
4	EDO	A	803	-	3,3,3	0.05	0	2,2,2	0.18	0
4	EDO	B	801	-	3,3,3	0.06	0	2,2,2	0.19	0
3	SO4	A	804	-	4,4,4	0.39	0	6,6,6	0.05	0
3	SO4	B	805	-	4,4,4	0.39	0	6,6,6	0.05	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
4	EDO	A	803	-	-	1/1/1/1	-
4	EDO	B	801	-	-	1/1/1/1	-
7	EPE	B	803	-	-	3/9/19/19	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	B	803	EPE	C10-S	3.62	1.82	1.77
7	B	803	EPE	O2S-S	2.26	1.51	1.45
7	B	803	EPE	O1S-S	2.10	1.51	1.45

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B	803	EPE	O2S-S-C10	5.54	113.59	106.92
7	B	803	EPE	O2S-S-O1S	-4.03	100.02	113.95
7	B	803	EPE	O1S-S-C10	3.81	111.50	106.92
7	B	803	EPE	C5-C6-N1	2.18	115.12	110.64
7	B	803	EPE	O3S-S-C10	2.16	109.26	105.77

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	B	803	EPE	C10-C9-N1-C6
7	B	803	EPE	C8-C7-N4-C5
7	B	803	EPE	S-C10-C9-N1
4	A	803	EDO	O1-C1-C2-O2
4	B	801	EDO	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

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	690/727 (94%)	0.59	40 (5%) 23 17	53, 88, 145, 168	0
1	B	679/727 (93%)	0.83	80 (11%) 4 3	68, 103, 163, 207	0
All	All	1369/1454 (94%)	0.71	120 (8%) 10 7	53, 96, 153, 207	0

All (120) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	68	TYR	7.5
1	B	208	ALA	7.4
1	A	363	CYS	6.9
1	B	197	ILE	6.8
1	A	454	ASP	6.1
1	B	455	CYS	5.6
1	A	660	ALA	5.5
1	A	449	GLN	5.2
1	B	191	THR	5.1
1	A	689	ILE	5.1
1	B	386	LEU	4.8
1	B	76	GLU	4.5
1	B	353	TYR	4.4
1	A	601	LYS	4.3
1	B	29	PHE	4.3
1	A	659	LYS	4.3
1	B	77	ILE	4.3
1	B	42	GLN	4.3
1	B	83	GLU	4.2
1	B	58	THR	4.2
1	B	48	TYR	4.2
1	B	124	ILE	4.1
1	A	690	GLN	3.8
1	B	660	ALA	3.7

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Mol	Chain	Res	Type	RSRZ
1	B	57	ALA	3.7
1	B	66	ARG	3.6
1	B	207	LYS	3.5
1	A	456	ASN	3.4
1	B	395	ASN	3.4
1	A	452	ILE	3.4
1	B	75	LYS	3.4
1	B	5	PHE	3.4
1	B	33	GLN	3.4
1	A	635	TYR	3.3
1	B	182	THR	3.3
1	B	174	PHE	3.3
1	B	67	LEU	3.3
1	B	404	LEU	3.3
1	A	359	GLN	3.2
1	B	464	ASN	3.2
1	B	393	LEU	3.2
1	B	356	PHE	3.1
1	B	453	GLU	3.1
1	A	679	ARG	3.1
1	B	49	LEU	3.1
1	B	116	VAL	3.1
1	B	156	ILE	3.1
1	A	463	LEU	3.0
1	B	654	GLU	3.0
1	A	353	TYR	3.0
1	B	655	ILE	2.9
1	B	3	LEU	2.9
1	B	380	TYR	2.8
1	B	694	SER	2.8
1	B	4	ILE	2.8
1	B	225	PHE	2.8
1	B	10	VAL	2.7
1	A	652	PHE	2.7
1	A	446	GLN	2.7
1	B	211	TYR	2.6
1	A	639	LEU	2.6
1	B	2	VAL	2.6
1	B	27	LEU	2.6
1	B	47	GLU	2.6
1	A	380	TYR	2.6
1	A	691	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	685	LEU	2.6
1	B	190	LEU	2.6
1	B	445	GLU	2.6
1	B	60	ALA	2.6
1	B	390	LEU	2.6
1	B	44	PHE	2.6
1	B	46	HIS	2.5
1	B	401	GLU	2.5
1	B	39	LEU	2.5
1	B	454	ASP	2.5
1	B	651	GLN	2.5
1	B	74	TYR	2.5
1	B	683	ALA	2.5
1	B	323	LEU	2.5
1	A	447	GLU	2.5
1	A	557	HIS	2.4
1	A	544	LEU	2.4
1	B	193	LEU	2.4
1	A	485	SER	2.4
1	A	684	GLU	2.4
1	B	117	ALA	2.4
1	B	692	LEU	2.4
1	B	196	ASP	2.4
1	A	680	GLN	2.4
1	A	77	ILE	2.4
1	B	40	ILE	2.4
1	A	399	VAL	2.4
1	B	693	PHE	2.4
1	B	657	GLU	2.3
1	A	666	GLN	2.3
1	B	172	LEU	2.3
1	B	84	MET	2.3
1	B	463	LEU	2.3
1	A	654	GLU	2.2
1	A	369	PHE	2.2
1	B	202	ASP	2.2
1	B	146	GLU	2.2
1	B	51	GLN	2.2
1	B	427	TYR	2.2
1	B	200	PRO	2.2
1	B	391	LEU	2.2
1	B	647	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	430	LEU	2.1
1	A	450	ILE	2.1
1	B	198	LYS	2.1
1	B	652	PHE	2.1
1	A	651	GLN	2.1
1	B	552	VAL	2.1
1	A	478	GLN	2.0
1	A	347	ILE	2.0
1	A	381	LEU	2.0
1	B	409	PHE	2.0
1	A	688	LEU	2.0
1	A	668	ILE	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 monosaccharides 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
6	BR	A	807	1/1	0.76	0.10	106,106,106,106	0
5	CL	B	806	1/1	0.77	0.18	95,95,95,95	0
5	CL	A	806	1/1	0.77	0.10	104,104,104,104	0
7	EPE	B	803	15/15	0.79	0.31	102,104,106,107	0
3	SO4	B	805	5/5	0.85	0.16	118,118,119,119	0
4	EDO	A	803	4/4	0.88	0.20	102,103,104,104	0
4	EDO	B	801	4/4	0.88	0.26	98,98,99,100	0
3	SO4	A	802	5/5	0.88	0.17	117,117,118,118	0
2	MG	B	802	1/1	0.89	0.18	97,97,97,97	0
2	MG	A	801	1/1	0.90	0.32	70,70,70,70	0
3	SO4	B	804	5/5	0.95	0.13	100,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	MG	A	805	1/1	0.95	0.13	86,86,86,86	0
3	SO4	A	804	5/5	0.96	0.11	103,104,104,106	0
5	CL	B	807	1/1	0.96	0.09	67,67,67,67	0
5	CL	B	808	1/1	0.97	0.09	69,69,69,69	0

6.5 Other polymers [i](#)

There are no such residues in this entry.