



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 28, 2026 – 01:29 pm BST

PDB ID : 29ST / pdb_000029st
Title : Azetidine-1- carboxylic acid synthase AzeJ from Saccharotrix sp. NRRL B-16348
Authors : Lukat, P.; Oral, G.; Blankenfeldt, W.
Deposited on : 2026-04-07
Resolution : 2.67 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

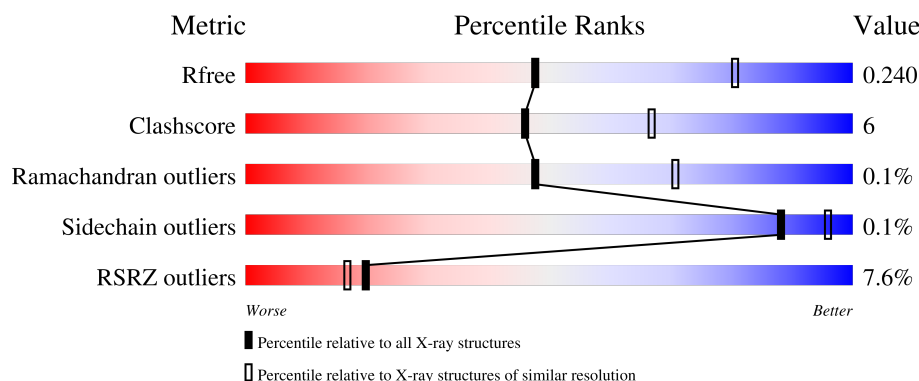
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.67 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	5070 (2.70-2.66)
Clashscore	190562	5409 (2.70-2.66)
Ramachandran outliers	187476	5324 (2.70-2.66)
Sidechain outliers	187428	5324 (2.70-2.66)
RSRZ outliers	180081	5070 (2.70-2.66)

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	247	13% 77% 11% 12%
1	B	247	4% 74% 11% 15%
1	C	247	7% 75% 10% 14%
1	D	247	3% 72% 12% 15%
1	E	247	4% 75% 11% 15%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 16504 atoms, of which 8236 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 Methyltransferase family protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	217	Total	C	H	N	O	S	0	4	0
			3397	1065	1696	317	311	8			
1	B	210	Total	C	H	N	O	S	0	6	0
			3299	1037	1649	307	298	8			
1	C	212	Total	C	H	N	O	S	0	2	0
			3281	1033	1638	302	300	8			
1	D	209	Total	C	H	N	O	S	0	2	0
			3243	1021	1619	299	296	8			
1	E	211	Total	C	H	N	O	S	0	2	0
			3272	1031	1634	301	298	8			

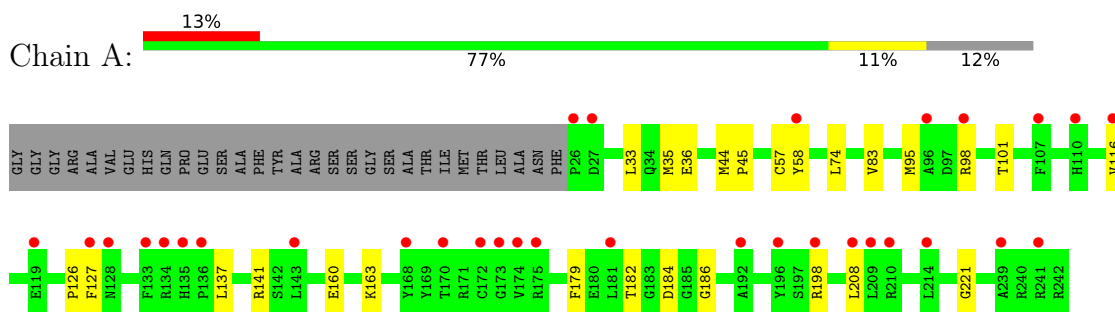
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	O	0	0
			1	1		
2	B	5	Total	O	0	0
			5	5		
2	C	2	Total	O	0	0
			2	2		
2	D	3	Total	O	0	0
			3	3		
2	E	1	Total	O	0	0
			1	1		

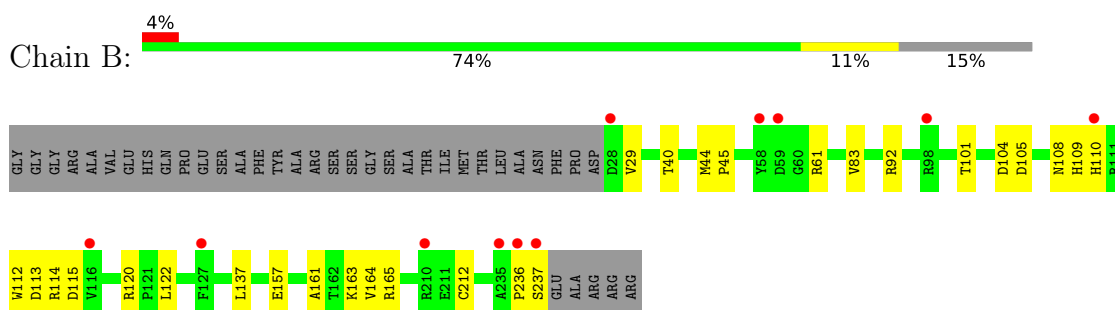
3 Residue-property plots [i](#)

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.

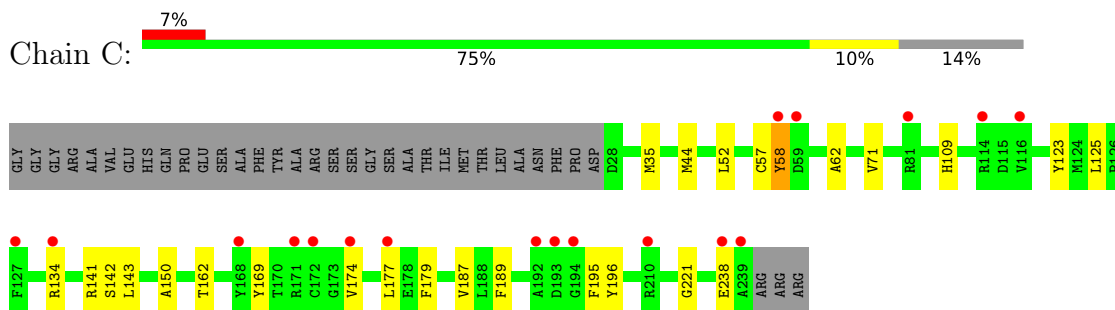
- Molecule 1: Methyltransferase family protein



- Molecule 1: Methyltransferase family protein

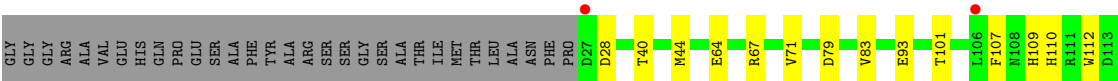


- Molecule 1: Methyltransferase family protein

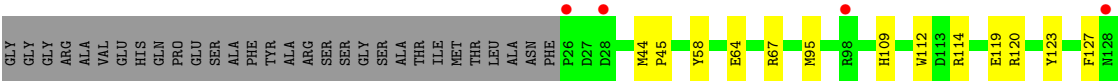


- Molecule 1: Methyltransferase family protein





● Molecule 1: Methyltransferase family protein



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	116.30Å 150.57Å 194.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.08 – 2.67 46.08 – 2.67	Depositor EDS
% Data completeness (in resolution range)	99.8 (46.08-2.67) 99.8 (46.08-2.67)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.33 (at 2.69Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.211 , 0.239 0.211 , 0.240	Depositor DCC
R_{free} test set	2518 reflections (5.17%)	wwPDB-VP
Wilson B-factor (Å ²)	61.3	Xtriage
Anisotropy	0.372	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 45.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	16504	wwPDB-VP
Average B, all atoms (Å ²)	81.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.38% 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](#)

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	0.17	0/1747	0.35	0/2359
1	B	0.18	0/1705	0.36	0/2304
1	C	0.16	0/1677	0.34	0/2268
1	D	0.17	0/1663	0.32	0/2248
1	E	0.20	0/1673	0.35	0/2263
All	All	0.18	0/8465	0.34	0/11442

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	E	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	E	138	ARG	Sidechain

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	1701	1696	1676	16	0
1	B	1650	1649	1622	20	0
1	C	1643	1638	1632	19	0
1	D	1624	1619	1611	23	0
1	E	1638	1634	1628	21	0
2	A	1	0	0	0	0
2	B	5	0	0	0	0
2	C	2	0	0	0	0
2	D	3	0	0	0	0
2	E	1	0	0	0	0
All	All	8268	8236	8169	95	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 6.

All (95) 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:113:ASP:OD1	1:B:115:ASP:OD1	2.07	0.71
1:E:137:LEU:CD2	1:E:212:CYS:SG	2.85	0.64
1:A:74:LEU:HD22	1:A:116:VAL:HG12	1.82	0.62
1:E:166:HIS:O	1:E:170:THR:HG23	2.01	0.60
1:C:174:VAL:HG11	1:C:177:LEU:HD13	1.84	0.59
1:A:137:LEU:HD11	1:A:208:LEU:HD22	1.84	0.59
1:E:64:GLU:OE2	1:E:67:ARG:NH1	2.36	0.58
1:B:157:GLU:OE1	1:B:157:GLU:N	2.30	0.56
1:E:140:LEU:HB2	1:E:212:CYS:SG	2.45	0.56
1:E:137:LEU:HD23	1:E:212:CYS:SG	2.45	0.56
1:C:57:CYS:O	1:C:58:TYR:C	2.50	0.54
1:E:220:ARG:HG2	1:E:220:ARG:HH11	1.73	0.53
1:C:169:TYR:O	1:C:174:VAL:HG12	2.09	0.53
1:B:163:LYS:HB3	1:B:163:LYS:NZ	2.24	0.52
1:D:157:GLU:OE1	1:D:157:GLU:N	2.42	0.52
1:B:113:ASP:OD1	1:B:113:ASP:C	2.53	0.52
1:D:40:THR:HG23	1:D:122:LEU:CD2	2.39	0.52
1:A:179:PHE:O	1:E:163:LYS:HE2	2.10	0.51
1:C:109:HIS:NE2	1:C:142:SER:OG	2.42	0.51
1:C:162:THR:HG23	1:C:187:VAL:HG11	1.93	0.50
1:A:137:LEU:HD23	1:A:141:ARG:NH1	2.27	0.50
1:D:79:ASP:O	1:D:83:VAL:HG23	2.12	0.50
1:E:140:LEU:CB	1:E:212:CYS:SG	3.00	0.49
1:C:169:TYR:CE2	1:C:195:PHE:HZ	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:137:LEU:CD1	1:D:208:LEU:HD13	2.42	0.49
1:D:137:LEU:HD13	1:D:208:LEU:HD13	1.95	0.49
1:B:61:ARG:HH11	1:B:61:ARG:HG2	1.77	0.49
1:C:35:MET:HE1	1:C:221:GLY:C	2.37	0.49
1:D:112:TRP:O	1:D:114:ARG:NH2	2.46	0.48
1:E:58:TYR:C	1:E:58:TYR:CD1	2.91	0.48
1:C:174:VAL:HG11	1:C:177:LEU:CD1	2.43	0.47
1:D:64:GLU:OE2	1:D:67[A]:ARG:NH1	2.47	0.47
1:E:163:LYS:O	1:E:163:LYS:HD2	2.14	0.47
1:A:198:ARG:HH11	1:A:198:ARG:HG3	1.78	0.47
1:A:44:MET:HB2	1:A:45:PRO:HD3	1.97	0.47
1:D:67[B]:ARG:NH2	1:D:93:GLU:O	2.47	0.47
1:D:141:ARG:HG2	1:D:141:ARG:HH11	1.80	0.47
1:B:104:ASP:OD1	1:B:105:ASP:N	2.46	0.47
1:B:137:LEU:HD23	1:B:212:CYS:SG	2.54	0.47
1:C:52:LEU:HD21	1:C:62:ALA:HB1	1.96	0.47
1:D:107:PHE:O	1:D:110:HIS:CE1	2.68	0.47
1:A:182:THR:HG23	1:A:186:GLY:C	2.39	0.46
1:C:134:ARG:HH12	1:E:134:ARG:HD3	1.79	0.46
1:C:177:LEU:HD21	1:C:189:PHE:CD2	2.50	0.46
1:E:67:ARG:HB3	1:E:95:MET:SD	2.56	0.46
1:B:161:ALA:O	1:B:165:ARG:HG2	2.16	0.46
1:D:125:LEU:HD11	1:D:143:LEU:HD11	1.97	0.45
1:C:125:LEU:HD11	1:C:143:LEU:HD11	1.99	0.45
1:B:120:ARG:HD2	1:B:236:PRO:HG3	1.97	0.45
1:E:44:MET:HB2	1:E:45:PRO:HD3	1.99	0.45
1:C:238:GLU:O	1:C:238:GLU:HG2	2.17	0.45
1:A:57:CYS:O	1:A:58:TYR:C	2.58	0.44
1:A:35:MET:HE1	1:A:221:GLY:HA2	1.99	0.44
1:E:163:LYS:HD2	1:E:163:LYS:C	2.43	0.44
1:B:137:LEU:CD2	1:B:212:CYS:SG	3.05	0.44
1:D:231:LEU:HD13	1:D:235:ALA:HB2	1.99	0.44
1:B:109:HIS:HA	1:B:112:TRP:CD2	2.53	0.43
1:B:113:ASP:OD1	1:B:114:ARG:N	2.51	0.43
1:C:177:LEU:HD21	1:C:189:PHE:CE2	2.53	0.43
1:C:44:MET:HE2	1:C:71:VAL:HG11	2.00	0.43
1:D:134:ARG:HH11	1:D:134:ARG:HG3	1.83	0.43
1:E:160:GLU:H	1:E:160:GLU:CD	2.26	0.43
1:A:163:LYS:NZ	1:E:180:GLU:HG3	2.34	0.43
1:D:109:HIS:HA	1:D:112:TRP:CE3	2.54	0.43
1:B:44:MET:HB2	1:B:45:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:109:HIS:HA	1:E:112:TRP:CD2	2.54	0.42
1:E:123:TYR:O	1:E:150:ALA:HA	2.19	0.42
1:C:196:TYR:C	1:C:196:TYR:CD1	2.97	0.42
1:D:44:MET:HE1	1:D:71:VAL:HG21	2.00	0.42
1:C:123:TYR:O	1:C:150:ALA:HA	2.19	0.42
1:B:29:VAL:HG12	1:B:164:VAL:CG1	2.49	0.42
1:E:120:ARG:NH1	1:E:236:PRO:HG2	2.34	0.42
1:A:36:GLU:OE2	1:A:126:PRO:HA	2.19	0.42
1:A:95:MET:HG2	1:A:98[B]:ARG:NH1	2.35	0.42
1:B:236:PRO:O	1:B:237:SER:CB	2.68	0.42
1:C:141:ARG:HG2	1:C:141:ARG:HH11	1.84	0.42
1:A:182:THR:OG1	1:A:184:ASP:OD1	2.29	0.42
1:D:83:VAL:CG1	1:D:101:THR:HB	2.50	0.41
1:B:114:ARG:HA	1:B:114:ARG:HD3	1.90	0.41
1:C:179:PHE:CD1	1:C:179:PHE:C	2.98	0.41
1:A:160:GLU:OE2	1:B:92:ARG:NH1	2.53	0.41
1:D:28:ASP:HB3	1:D:164:VAL:HG13	2.02	0.41
1:D:40:THR:OG1	1:D:124:MET:HE3	2.20	0.41
1:D:137:LEU:HD13	1:D:208:LEU:CD1	2.51	0.41
1:D:125:LEU:HD12	1:D:125:LEU:N	2.35	0.41
1:B:83:VAL:HG13	1:B:101:THR:HB	2.03	0.41
1:E:114:ARG:NH2	1:E:119:GLU:OE1	2.40	0.41
1:E:127:PHE:CD1	1:E:127:PHE:C	2.99	0.41
1:D:123:TYR:O	1:D:150:ALA:HA	2.21	0.41
1:A:33:LEU:HG	1:A:127:PHE:HE2	1.86	0.40
1:D:109:HIS:HA	1:D:112:TRP:CD2	2.56	0.40
1:A:83:VAL:HG13	1:A:101:THR:HB	2.02	0.40
1:D:109:HIS:NE2	1:D:142:SER:OG	2.48	0.40
1:B:40:THR:HG23	1:B:122:LEU:CD2	2.51	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	219/247 (89%)	212 (97%)	7 (3%)	0	100	100
1	B	214/247 (87%)	210 (98%)	4 (2%)	0	100	100
1	C	212/247 (86%)	202 (95%)	9 (4%)	1 (0%)	24	45
1	D	209/247 (85%)	206 (99%)	3 (1%)	0	100	100
1	E	211/247 (85%)	206 (98%)	5 (2%)	0	100	100
All	All	1065/1235 (86%)	1036 (97%)	28 (3%)	1 (0%)	48	71

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	58	TYR

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	174/192 (91%)	174 (100%)	0	100	100
1	B	170/192 (88%)	168 (99%)	2 (1%)	63	82
1	C	167/192 (87%)	167 (100%)	0	100	100
1	D	166/192 (86%)	166 (100%)	0	100	100
1	E	167/192 (87%)	167 (100%)	0	100	100
All	All	844/960 (88%)	842 (100%)	2 (0%)	88	95

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	110[A]	HIS
1	B	110[B]	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	34	GLN
1	A	132	ASN
1	B	132	ASN
1	C	135	HIS
1	D	108	ASN
1	E	135	HIS

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](#)

There are no ligands in this entry.

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	217/247 (87%)	0.70	32 (14%) 6 4	38, 88, 144, 184	2 (0%)
1	B	210/247 (85%)	0.28	11 (5%) 33 28	38, 67, 111, 150	3 (1%)
1	C	212/247 (85%)	0.52	18 (8%) 16 14	41, 77, 134, 163	1 (0%)
1	D	209/247 (84%)	0.15	8 (3%) 44 39	34, 72, 111, 138	1 (0%)
1	E	211/247 (85%)	0.37	11 (5%) 33 28	41, 76, 125, 146	1 (0%)
All	All	1059/1235 (85%)	0.41	80 (7%) 20 17	34, 74, 130, 184	8 (0%)

All (80) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	236	PRO	6.9
1	B	110[A]	HIS	6.4
1	B	237	SER	6.3
1	E	128	ASN	6.3
1	B	98[A]	ARG	6.3
1	A	26	PRO	6.3
1	A	98[A]	ARG	6.2
1	C	239	ALA	5.9
1	D	235	ALA	5.8
1	B	236	PRO	4.4
1	C	81[A]	ARG	4.0
1	A	135	HIS	4.0
1	C	127	PHE	3.9
1	C	59	ASP	3.8
1	B	58	TYR	3.7
1	B	116	VAL	3.7
1	C	194	GLY	3.7
1	E	98[A]	ARG	3.6
1	E	26	PRO	3.6
1	D	116	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	B	59	ASP	3.5
1	A	27	ASP	3.4
1	E	235	ALA	3.3
1	C	58	TYR	3.2
1	B	235	ALA	3.2
1	C	238	GLU	3.1
1	A	172	CYS	3.1
1	C	172	CYS	3.1
1	A	170	THR	3.0
1	C	193	ASP	2.9
1	E	168	TYR	2.9
1	C	116	VAL	2.9
1	A	127	PHE	2.8
1	D	233	GLY	2.8
1	A	181	LEU	2.7
1	C	177	LEU	2.7
1	E	191	GLY	2.7
1	D	138	ARG	2.7
1	A	110	HIS	2.6
1	B	210[A]	ARG	2.6
1	A	136	PRO	2.6
1	A	173	GLY	2.5
1	D	106	LEU	2.5
1	A	168	TYR	2.5
1	A	174	VAL	2.5
1	C	174	VAL	2.5
1	D	27	ASP	2.4
1	A	58	TYR	2.4
1	C	192	ALA	2.4
1	C	114	ARG	2.4
1	A	133	PHE	2.4
1	A	175	ARG	2.4
1	A	128	ASN	2.4
1	A	239	ALA	2.4
1	C	168	TYR	2.3
1	A	241	ARG	2.3
1	A	107	PHE	2.3
1	A	192	ALA	2.3
1	D	181	LEU	2.3
1	A	134	ARG	2.3
1	E	194	GLY	2.3
1	A	210	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	28	ASP	2.2
1	A	116	VAL	2.2
1	E	129	LEU	2.2
1	A	96	ALA	2.2
1	C	134	ARG	2.2
1	C	171	ARG	2.2
1	E	233	GLY	2.2
1	A	214	LEU	2.2
1	A	119[A]	GLU	2.2
1	A	198	ARG	2.2
1	D	133	PHE	2.2
1	B	127	PHE	2.1
1	A	196	TYR	2.1
1	C	210	ARG	2.1
1	A	143	LEU	2.1
1	A	208	LEU	2.0
1	E	28	ASP	2.0
1	A	209	LEU	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.