



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 10:32 PM UTC

PDB ID : 6BJU / pdb_00006bjv
Title : The structure of AtzH: a little known member of the atrazine breakdown pathway
Authors : Peat, T.S.; Newman, J.; Scott, C.; Esquirol, L.
Deposited on : 2017-11-07
Resolution : 1.64 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	:	9.0.010 (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

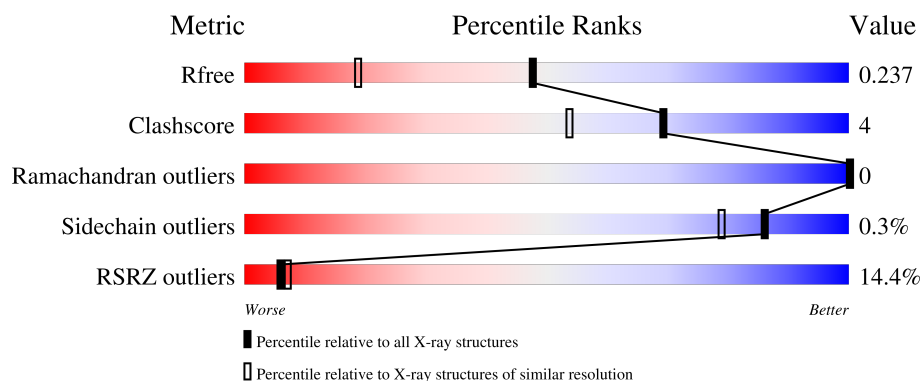
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.64 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	1141 (1.64-1.64)
Clashscore	190562	1171 (1.64-1.64)
Ramachandran outliers	187476	1151 (1.64-1.64)
Sidechain outliers	187428	1150 (1.64-1.64)
RSRZ outliers	180081	1141 (1.64-1.64)

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	154	11% 73% 8% 19%
1	B	154	14% 74% • • 21%
1	C	154	8% 75% 6% • 19%
1	D	154	13% 74% 5% • 20%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4538 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 AtzH.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	125	Total	C	N	O	S	0	6	0
			1035	652	182	197	4			
1	B	121	Total	C	N	O	S	0	3	0
			983	619	177	185	2			
1	C	125	Total	C	N	O	S	0	2	0
			1005	634	181	188	2			
1	D	123	Total	C	N	O	S	0	5	0
			1006	635	178	191	2			

There are 100 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-21	MET	-	initiating methionine	UNP A0A1A5DB13
A	-20	GLY	-	expression tag	UNP A0A1A5DB13
A	-19	SER	-	expression tag	UNP A0A1A5DB13
A	-18	SER	-	expression tag	UNP A0A1A5DB13
A	-17	HIS	-	expression tag	UNP A0A1A5DB13
A	-16	HIS	-	expression tag	UNP A0A1A5DB13
A	-15	HIS	-	expression tag	UNP A0A1A5DB13
A	-14	HIS	-	expression tag	UNP A0A1A5DB13
A	-13	HIS	-	expression tag	UNP A0A1A5DB13
A	-12	HIS	-	expression tag	UNP A0A1A5DB13
A	-11	HIS	-	expression tag	UNP A0A1A5DB13
A	-10	SER	-	expression tag	UNP A0A1A5DB13
A	-9	SER	-	expression tag	UNP A0A1A5DB13
A	-8	GLY	-	expression tag	UNP A0A1A5DB13
A	-7	LEU	-	expression tag	UNP A0A1A5DB13
A	-6	VAL	-	expression tag	UNP A0A1A5DB13
A	-5	PRO	-	expression tag	UNP A0A1A5DB13
A	-4	ARG	-	expression tag	UNP A0A1A5DB13
A	-3	GLY	-	expression tag	UNP A0A1A5DB13
A	-2	SER	-	expression tag	UNP A0A1A5DB13
A	-1	HIS	-	expression tag	UNP A0A1A5DB13

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Chain	Residue	Modelled	Actual	Comment	Reference
A	0	HIS	-	expression tag	UNP A0A1A5DB13
A	1	MET	-	expression tag	UNP A0A1A5DB13
A	2	LEU	-	expression tag	UNP A0A1A5DB13
A	3	GLU	-	expression tag	UNP A0A1A5DB13
B	-21	MET	-	initiating methionine	UNP A0A1A5DB13
B	-20	GLY	-	expression tag	UNP A0A1A5DB13
B	-19	SER	-	expression tag	UNP A0A1A5DB13
B	-18	SER	-	expression tag	UNP A0A1A5DB13
B	-17	HIS	-	expression tag	UNP A0A1A5DB13
B	-16	HIS	-	expression tag	UNP A0A1A5DB13
B	-15	HIS	-	expression tag	UNP A0A1A5DB13
B	-14	HIS	-	expression tag	UNP A0A1A5DB13
B	-13	HIS	-	expression tag	UNP A0A1A5DB13
B	-12	HIS	-	expression tag	UNP A0A1A5DB13
B	-11	HIS	-	expression tag	UNP A0A1A5DB13
B	-10	SER	-	expression tag	UNP A0A1A5DB13
B	-9	SER	-	expression tag	UNP A0A1A5DB13
B	-8	GLY	-	expression tag	UNP A0A1A5DB13
B	-7	LEU	-	expression tag	UNP A0A1A5DB13
B	-6	VAL	-	expression tag	UNP A0A1A5DB13
B	-5	PRO	-	expression tag	UNP A0A1A5DB13
B	-4	ARG	-	expression tag	UNP A0A1A5DB13
B	-3	GLY	-	expression tag	UNP A0A1A5DB13
B	-2	SER	-	expression tag	UNP A0A1A5DB13
B	-1	HIS	-	expression tag	UNP A0A1A5DB13
B	0	HIS	-	expression tag	UNP A0A1A5DB13
B	1	MET	-	expression tag	UNP A0A1A5DB13
B	2	LEU	-	expression tag	UNP A0A1A5DB13
B	3	GLU	-	expression tag	UNP A0A1A5DB13
C	-21	MET	-	initiating methionine	UNP A0A1A5DB13
C	-20	GLY	-	expression tag	UNP A0A1A5DB13
C	-19	SER	-	expression tag	UNP A0A1A5DB13
C	-18	SER	-	expression tag	UNP A0A1A5DB13
C	-17	HIS	-	expression tag	UNP A0A1A5DB13
C	-16	HIS	-	expression tag	UNP A0A1A5DB13
C	-15	HIS	-	expression tag	UNP A0A1A5DB13
C	-14	HIS	-	expression tag	UNP A0A1A5DB13
C	-13	HIS	-	expression tag	UNP A0A1A5DB13
C	-12	HIS	-	expression tag	UNP A0A1A5DB13
C	-11	HIS	-	expression tag	UNP A0A1A5DB13
C	-10	SER	-	expression tag	UNP A0A1A5DB13
C	-9	SER	-	expression tag	UNP A0A1A5DB13

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-8	GLY	-	expression tag	UNP A0A1A5DB13
C	-7	LEU	-	expression tag	UNP A0A1A5DB13
C	-6	VAL	-	expression tag	UNP A0A1A5DB13
C	-5	PRO	-	expression tag	UNP A0A1A5DB13
C	-4	ARG	-	expression tag	UNP A0A1A5DB13
C	-3	GLY	-	expression tag	UNP A0A1A5DB13
C	-2	SER	-	expression tag	UNP A0A1A5DB13
C	-1	HIS	-	expression tag	UNP A0A1A5DB13
C	0	HIS	-	expression tag	UNP A0A1A5DB13
C	1	MET	-	expression tag	UNP A0A1A5DB13
C	2	LEU	-	expression tag	UNP A0A1A5DB13
C	3	GLU	-	expression tag	UNP A0A1A5DB13
D	-21	MET	-	initiating methionine	UNP A0A1A5DB13
D	-20	GLY	-	expression tag	UNP A0A1A5DB13
D	-19	SER	-	expression tag	UNP A0A1A5DB13
D	-18	SER	-	expression tag	UNP A0A1A5DB13
D	-17	HIS	-	expression tag	UNP A0A1A5DB13
D	-16	HIS	-	expression tag	UNP A0A1A5DB13
D	-15	HIS	-	expression tag	UNP A0A1A5DB13
D	-14	HIS	-	expression tag	UNP A0A1A5DB13
D	-13	HIS	-	expression tag	UNP A0A1A5DB13
D	-12	HIS	-	expression tag	UNP A0A1A5DB13
D	-11	HIS	-	expression tag	UNP A0A1A5DB13
D	-10	SER	-	expression tag	UNP A0A1A5DB13
D	-9	SER	-	expression tag	UNP A0A1A5DB13
D	-8	GLY	-	expression tag	UNP A0A1A5DB13
D	-7	LEU	-	expression tag	UNP A0A1A5DB13
D	-6	VAL	-	expression tag	UNP A0A1A5DB13
D	-5	PRO	-	expression tag	UNP A0A1A5DB13
D	-4	ARG	-	expression tag	UNP A0A1A5DB13
D	-3	GLY	-	expression tag	UNP A0A1A5DB13
D	-2	SER	-	expression tag	UNP A0A1A5DB13
D	-1	HIS	-	expression tag	UNP A0A1A5DB13
D	0	HIS	-	expression tag	UNP A0A1A5DB13
D	1	MET	-	expression tag	UNP A0A1A5DB13
D	2	LEU	-	expression tag	UNP A0A1A5DB13
D	3	GLU	-	expression tag	UNP A0A1A5DB13

- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	120	Total O 120 120	0	0

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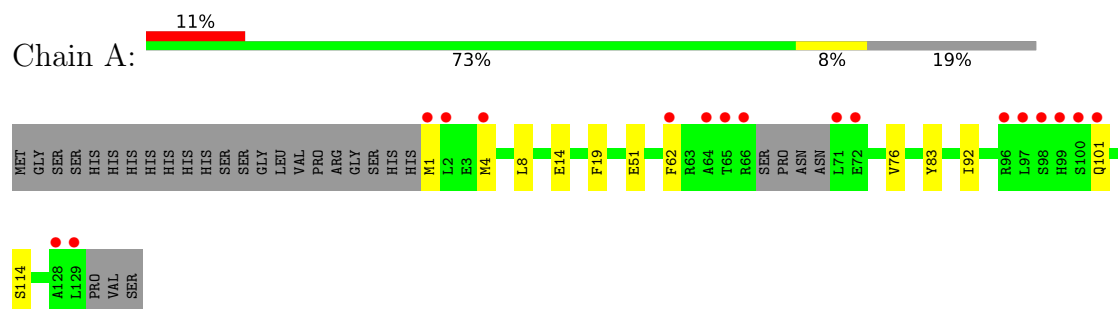
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	135	Total 135	O 135	0	0
2	C	126	Total 126	O 126	0	0
2	D	128	Total 128	O 128	0	0

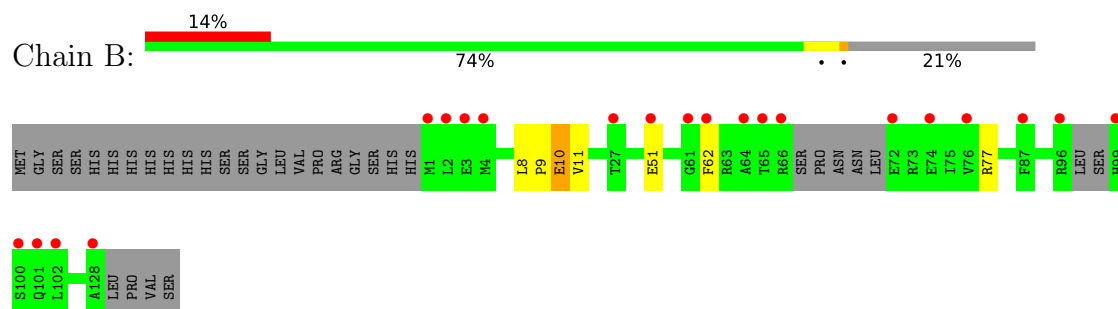
3 Residue-property plots [i](#)

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.

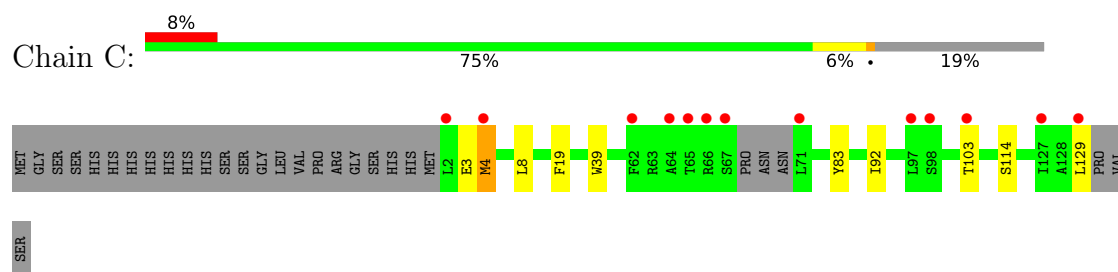
• Molecule 1: AtzH



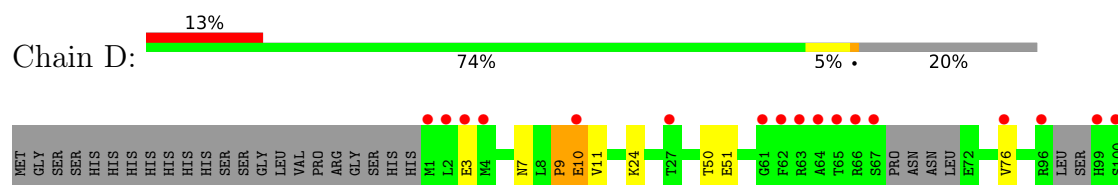
• Molecule 1: AtzH



• Molecule 1: AtzH



• Molecule 1: AtzH



	L126	I127	A128	L129	PRO	VAL	SER
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4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	51.81Å 51.83Å 59.68Å 99.81° 102.15° 92.48°	Depositor
Resolution (Å)	50.40 – 1.64 50.40 – 1.64	Depositor EDS
% Data completeness (in resolution range)	96.7 (50.40-1.64) 96.7 (50.40-1.64)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.27 (at 1.64Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.199 , 0.228 0.209 , 0.237	Depositor DCC
R_{free} test set	3265 reflections (4.47%)	wwPDB-VP
Wilson B-factor (Å ²)	16.4	Xtriage
Anisotropy	0.103	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 39.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.229 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4538	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.69% 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

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	1.28	3/1054 (0.3%)	1.05	0/1432
1	B	1.21	3/1001 (0.3%)	1.05	0/1358
1	C	1.30	2/1024 (0.2%)	1.07	0/1391
1	D	1.25	2/1024 (0.2%)	1.04	0/1391
All	All	1.26	10/4103 (0.2%)	1.05	0/5572

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	83	TYR	C-O	-7.06	1.16	1.24
1	C	83	TYR	C-O	-6.90	1.16	1.23
1	C	8	LEU	C-O	-6.02	1.17	1.24
1	B	10	GLU	CA-C	5.81	1.60	1.52
1	A	8	LEU	C-O	-5.79	1.17	1.24
1	D	10	GLU	CA-C	5.72	1.60	1.52
1	A	14	GLU	C-O	-5.67	1.17	1.24
1	B	9	PRO	C-O	-5.58	1.17	1.24
1	B	8	LEU	C-O	-5.41	1.17	1.24
1	D	9	PRO	C-O	-5.04	1.18	1.24

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	1035	0	991	11	0
1	B	983	0	943	3	0
1	C	1005	0	971	8	0
1	D	1006	0	958	7	0
2	A	120	0	0	1	0
2	B	135	0	0	1	1
2	C	126	0	0	1	0
2	D	128	0	0	3	1
All	All	4538	0	3863	28	1

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 4.

All (28) 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:1:MET:HG3	1:A:4[A]:MET:HE2	1.38	1.01
1:A:1:MET:HG3	1:A:4[A]:MET:CE	1.89	1.01
1:A:1:MET:CG	1:A:4[A]:MET:HE2	2.09	0.82
1:A:76[B]:VAL:O	1:A:76[B]:VAL:HG22	1.82	0.76
1:C:39:TRP:NE1	1:D:3[B]:GLU:OE2	2.22	0.72
1:A:114:SER:OG	2:A:201:HOH:O	1.91	0.70
1:A:76[B]:VAL:O	1:A:76[B]:VAL:CG2	2.50	0.59
1:C:4:MET:HE3	1:C:4:MET:HA	1.84	0.59
1:C:114:SER:OG	2:C:201:HOH:O	1.98	0.58
1:D:24[A]:LYS:HG3	2:D:267:HOH:O	2.04	0.57
1:A:101[A]:GLN:OE1	1:A:101[A]:GLN:N	2.40	0.55
1:A:51:GLU:OE1	1:A:62:PHE:CD1	2.61	0.54
1:D:76[A]:VAL:HG12	1:D:76[A]:VAL:O	2.10	0.52
1:C:4:MET:HE3	1:C:4:MET:CA	2.41	0.50
1:A:101[A]:GLN:H	1:A:101[A]:GLN:CD	2.20	0.49
1:D:10:GLU:HG2	1:D:11:VAL:N	2.28	0.48
1:B:10:GLU:HG2	1:B:11:VAL:N	2.29	0.48
1:C:103:THR:HG21	1:C:129:LEU:HD13	1.95	0.47
1:D:9:PRO:HD3	2:D:201:HOH:O	2.15	0.46
1:A:19:PHE:HZ	1:A:92:ILE:HG21	1.81	0.45
1:B:77:ARG:NH2	2:B:207:HOH:O	2.49	0.45
1:D:50:THR:OG1	1:D:51:GLU:OE1	2.27	0.44
1:D:7:ASN:O	2:D:201:HOH:O	2.21	0.44
1:C:103:THR:HG23	1:C:129:LEU:HB2	2.01	0.43
1:C:3:GLU:HG2	1:C:4:MET:SD	2.60	0.42
1:A:4[A]:MET:HE2	1:A:4[A]:MET:HB2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:PHE:HZ	1:C:92:ILE:HG21	1.86	0.41
1:B:51:GLU:OE2	1:B:62:PHE:CZ	2.74	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:231:HOH:O	2:D:233:HOH:O[1_445]	2.15	0.05

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	127/154 (82%)	127 (100%)	0	0	100	100
1	B	118/154 (77%)	118 (100%)	0	0	100	100
1	C	123/154 (80%)	123 (100%)	0	0	100	100
1	D	122/154 (79%)	121 (99%)	1 (1%)	0	100	100
All	All	490/616 (80%)	489 (100%)	1 (0%)	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	107/132 (81%)	107 (100%)	0	100	100
1	B	100/132 (76%)	100 (100%)	0	100	100
1	C	103/132 (78%)	102 (99%)	1 (1%)	68	49
1	D	102/132 (77%)	102 (100%)	0	100	100
All	All	412/528 (78%)	411 (100%)	1 (0%)	86	81

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	4	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	43	GLN
1	B	5	GLN
1	C	43	GLN
1	D	5	GLN
1	D	85	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	125/154 (81%)	0.78	17 (13%) 7 8	5, 16, 50, 75	6 (4%)
1	B	121/154 (78%)	0.70	21 (17%) 4 4	6, 17, 49, 74	3 (2%)
1	C	125/154 (81%)	0.66	13 (10%) 11 13	6, 16, 43, 70	2 (1%)
1	D	123/154 (79%)	0.71	20 (16%) 4 5	6, 17, 53, 79	5 (4%)
All	All	494/616 (80%)	0.72	71 (14%) 6 7	5, 17, 51, 79	16 (3%)

All (71) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	4[A]	MET	6.3
1	A	71	LEU	6.0
1	D	129	LEU	5.2
1	C	2	LEU	4.7
1	A	129	LEU	4.6
1	A	64	ALA	4.5
1	C	129	LEU	4.4
1	C	4	MET	4.2
1	B	64	ALA	4.2
1	C	97	LEU	4.1
1	D	64	ALA	4.0
1	D	99	HIS	4.0
1	A	66	ARG	4.0
1	C	65	THR	3.9
1	C	71	LEU	3.9
1	C	64	ALA	3.9
1	C	98	SER	3.8
1	B	99	HIS	3.8
1	C	66	ARG	3.7
1	B	65	THR	3.7
1	B	1	MET	3.7

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Mol	Chain	Res	Type	RSRZ
1	A	1	MET	3.6
1	A	2	LEU	3.6
1	B	66	ARG	3.6
1	A	65	THR	3.5
1	D	1	MET	3.5
1	C	67	SER	3.5
1	B	4	MET	3.5
1	D	66	ARG	3.5
1	D	65	THR	3.4
1	A	97	LEU	3.3
1	D	100	SER	3.2
1	A	128	ALA	3.2
1	B	3	GLU	3.2
1	C	62	PHE	3.2
1	D	4	MET	3.0
1	D	96	ARG	3.0
1	B	2	LEU	3.0
1	B	61	GLY	3.0
1	A	98	SER	2.9
1	A	101[A]	GLN	2.8
1	B	62	PHE	2.8
1	B	76	VAL	2.7
1	D	67	SER	2.7
1	B	101	GLN	2.7
1	C	127	ILE	2.6
1	B	74	GLU	2.6
1	D	2	LEU	2.6
1	B	51	GLU	2.6
1	D	128	ALA	2.6
1	B	128	ALA	2.5
1	B	100	SER	2.4
1	D	27	THR	2.4
1	D	76[A]	VAL	2.4
1	B	72	GLU	2.4
1	D	62	PHE	2.4
1	A	96	ARG	2.3
1	A	62	PHE	2.3
1	A	100	SER	2.3
1	D	61	GLY	2.3
1	A	72	GLU	2.3
1	B	96	ARG	2.3
1	D	126	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	D	10	GLU	2.2
1	B	27	THR	2.2
1	C	103	THR	2.2
1	D	63	ARG	2.1
1	A	99	HIS	2.1
1	B	102	LEU	2.1
1	B	87	PHE	2.1
1	D	3[A]	GLU	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.