



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 12:46 AM UTC

PDB ID : 3E0L / pdb_00003e0l
Title : Computationally Designed Ammelide Deaminase
Authors : Murphy, P.M.; Bolduc, J.M.; Gallaher, J.L.; Stoddard, B.L.; Baker, D.
Deposited on : 2008-07-31
Resolution : 2.37 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

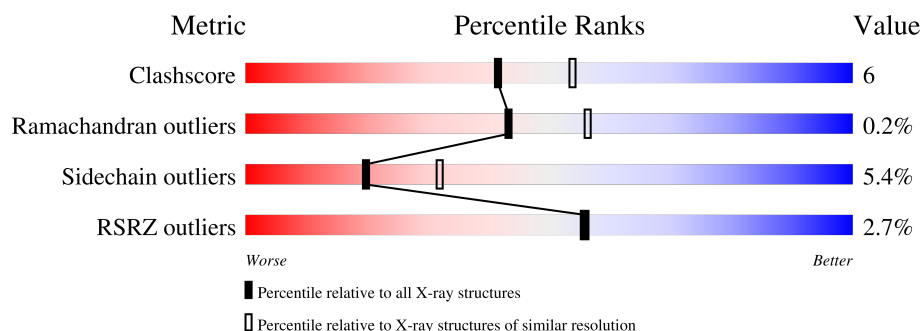
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.37 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))
Clashscore	190562	7722 (2.40-2.36)
Ramachandran outliers	187476	7626 (2.40-2.36)
Sidechain outliers	187428	7627 (2.40-2.36)
RSRZ outliers	180081	7170 (2.40-2.36)

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	455	3% 80% 15% • •
1	B	455	2% 82% 14% • •

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 7011 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 Guanine deaminase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	442	Total	C	N	O	S	0	2	0
			3482	2219	583	665	15			
1	B	442	Total	C	N	O	S	0	1	0
			3483	2217	583	668	15			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q9Y2T3
A	-1	SER	-	expression tag	UNP Q9Y2T3
A	0	HIS	-	expression tag	UNP Q9Y2T3
A	?	-	ARG	SEE REMARK 999	UNP Q9Y2T3
A	?	-	PHE	SEE REMARK 999	UNP Q9Y2T3
A	213	GLY	SER	SEE REMARK 999	UNP Q9Y2T3
A	214	ASN	LEU	SEE REMARK 999	UNP Q9Y2T3
A	215	GLY	SER	SEE REMARK 999	UNP Q9Y2T3
A	216	VAL	CYS	SEE REMARK 999	UNP Q9Y2T3
B	-2	GLY	-	expression tag	UNP Q9Y2T3
B	-1	SER	-	expression tag	UNP Q9Y2T3
B	0	HIS	-	expression tag	UNP Q9Y2T3
B	?	-	ARG	SEE REMARK 999	UNP Q9Y2T3
B	?	-	PHE	SEE REMARK 999	UNP Q9Y2T3
B	213	GLY	SER	SEE REMARK 999	UNP Q9Y2T3
B	214	ASN	LEU	SEE REMARK 999	UNP Q9Y2T3
B	215	GLY	SER	SEE REMARK 999	UNP Q9Y2T3
B	216	VAL	CYS	SEE REMARK 999	UNP Q9Y2T3

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		

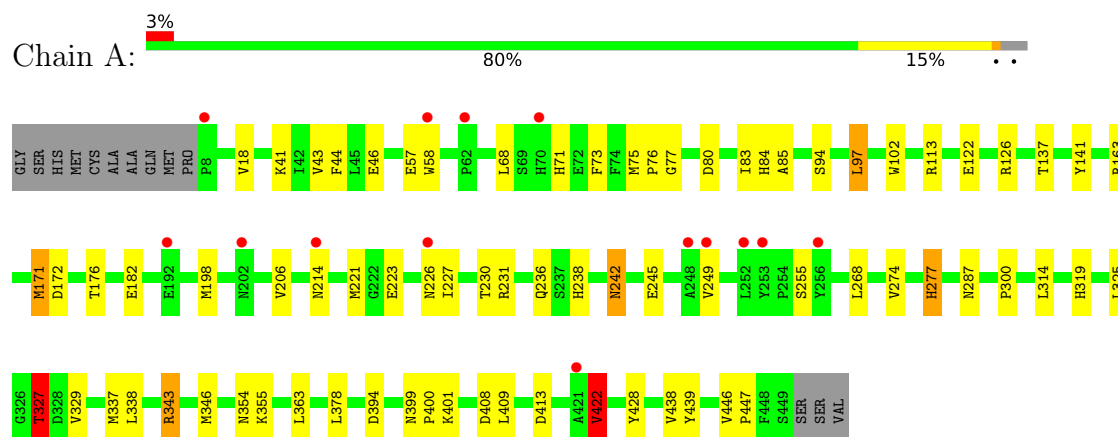
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	23	Total	O	0	0
			23	23		
3	B	21	Total	O	0	0
			21	21		

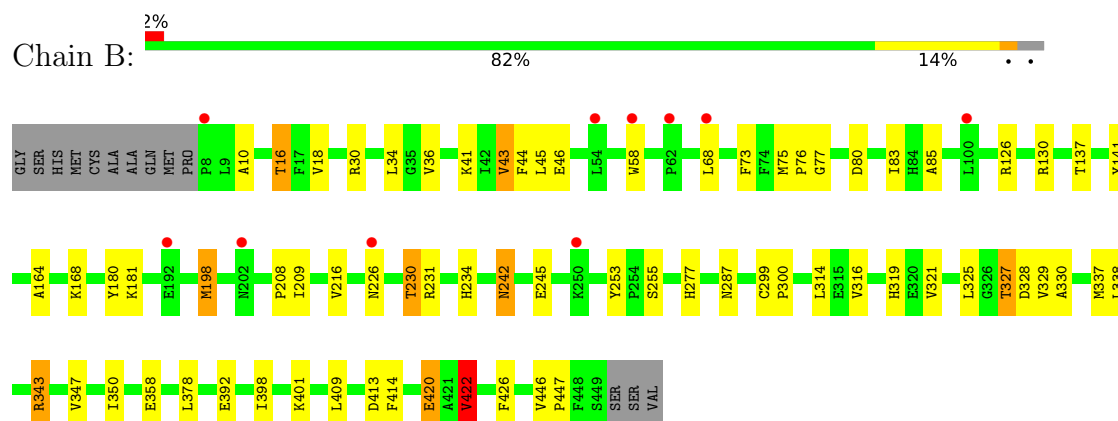
3 Residue-property plots [i](#)

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: Guanine deaminase



• Molecule 1: Guanine deaminase



4 Data and refinement statistics

Property	Value	Source
Space group	I 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	86.83Å 107.31Å 233.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	117.04 – 2.37 116.81 – 2.37	Depositor EDS
% Data completeness (in resolution range)	97.2 (117.04-2.37) 97.4 (116.81-2.37)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.202 , 0.247 0.204 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	(Not available)	Xtriage
Anisotropy	(Not available)	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 32.8	EDS
L-test for twinning ¹	$\langle L \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7011	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *(Not available)*

¹Theoretical 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: ZN

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	0.48	0/3565	0.77	2/4830 (0.0%)
1	B	0.47	0/3561	0.79	5/4822 (0.1%)
All	All	0.48	0/7126	0.78	7/9652 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	422	VAL	CB-CA-C	-7.41	102.34	112.04
1	A	327	THR	N-CA-C	-5.88	106.23	113.41
1	B	299	CYS	CA-C-N	5.84	125.04	118.97
1	B	299	CYS	C-N-CA	5.84	125.04	118.97
1	A	422	VAL	CB-CA-C	-5.83	104.41	112.04
1	B	164	ALA	N-CA-C	5.24	117.04	108.76
1	B	422	VAL	N-CA-CB	5.08	116.82	110.47

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	3482	0	3393	48	1
1	B	3483	0	3402	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	23	0	0	0	0
3	B	21	0	0	0	0
All	All	7011	0	6795	88	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 6.

All (88) 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:327:THR:CG2	1:B:329:VAL:HG23	1.91	1.00
1:B:73:PHE:HE2	1:B:75:MET:HE3	1.34	0.93
1:A:163:ARG:NH1	1:A:394:ASP:OD2	2.07	0.88
1:A:171:MET:HE3	1:A:214:ASN:O	1.73	0.86
1:A:413:ASP:HB3	1:A:422:VAL:HG13	1.58	0.84
1:B:327:THR:HG23	1:B:329:VAL:HG23	1.58	0.84
1:B:242:ASN:ND2	1:B:245:GLU:H	1.77	0.81
1:A:327:THR:HG23	1:A:329:VAL:HG23	1.65	0.78
1:B:226:ASN:O	1:B:230:THR:HG23	1.84	0.77
1:A:327:THR:CG2	1:A:329:VAL:HG23	2.18	0.73
1:B:216:VAL:O	1:B:253:TYR:OH	2.13	0.66
1:B:300:PRO:HB2	1:B:343:ARG:HB3	1.78	0.65
1:A:73:PHE:HE2	1:A:75:MET:HE3	1.62	0.64
1:B:73:PHE:CE2	1:B:75:MET:HE3	2.25	0.64
1:B:198:MET:HE2	1:B:208:PRO:HD3	1.79	0.63
1:A:238:HIS:HD2	1:A:277:HIS:CD2	2.16	0.63
1:B:327:THR:HG21	1:B:329:VAL:HG23	1.76	0.63
1:A:242:ASN:ND2	1:A:245:GLU:H	1.97	0.62
1:A:325:LEU:HB2	1:A:337:MET:HE1	1.82	0.61
1:B:242:ASN:HD21	1:B:245:GLU:H	1.45	0.61
1:A:300:PRO:HB2	1:A:343:ARG:HB3	1.82	0.59
1:B:43:VAL:HG12	1:B:44:PHE:HD1	1.67	0.58
1:A:43:VAL:HG13	1:A:58:TRP:CH2	2.39	0.58
1:B:325:LEU:HB2	1:B:337:MET:HE1	1.86	0.58
1:A:171:MET:CE	1:A:214:ASN:O	2.49	0.57
1:B:43:VAL:HG12	1:B:44:PHE:CD1	2.40	0.56
1:B:287:ASN:ND2	1:B:319:HIS:HD2	2.03	0.56
1:B:409:LEU:HD13	1:B:414:PHE:CZ	2.40	0.55
1:B:413:ASP:HB3	1:B:422:VAL:HG13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:LEU:HD12	1:B:45:LEU:HD13	1.90	0.53
1:B:409:LEU:HD13	1:B:414:PHE:HZ	1.74	0.53
1:A:401:LYS:HG3	1:A:409:LEU:HD12	1.89	0.53
1:B:413:ASP:O	1:B:422:VAL:HG22	2.09	0.53
1:B:80:ASP:OD2	1:B:327:THR:HB	2.09	0.52
1:A:94:SER:HB2	1:B:420:GLU:HG3	1.91	0.52
1:A:343:ARG:HE	1:A:346:MET:HE2	1.75	0.52
1:A:409:LEU:HD22	1:A:422:VAL:HG12	1.91	0.51
1:B:446:VAL:HA	1:B:447:PRO:C	2.35	0.51
1:B:198:MET:HE2	1:B:208:PRO:CD	2.41	0.51
1:A:223:GLU:O	1:A:227:ILE:HG13	2.10	0.50
1:A:163:ARG:HH12	1:A:394:ASP:CG	2.20	0.50
1:A:77:GLY:HA3	1:A:137:THR:OG1	2.12	0.49
1:A:400:PRO:HB2	1:A:409:LEU:HD11	1.94	0.49
1:A:163:ARG:NH1	1:A:394:ASP:CG	2.70	0.49
1:B:18:VAL:O	1:B:76:PRO:HD3	2.13	0.49
1:A:43:VAL:HG12	1:A:44:PHE:HD1	1.78	0.48
1:A:80:ASP:OD2	1:A:327:THR:HB	2.13	0.48
1:A:413:ASP:HB3	1:A:422:VAL:CG1	2.39	0.48
1:B:398:ILE:HD12	1:B:426:PHE:CZ	2.49	0.48
1:A:97:LEU:HD13	1:A:102:TRP:HB2	1.96	0.47
1:B:414:PHE:CE1	1:B:422:VAL:HG11	2.49	0.47
1:A:287:ASN:ND2	1:A:319:HIS:HD2	2.13	0.47
1:A:43:VAL:HG12	1:A:44:PHE:CD1	2.51	0.46
1:B:242:ASN:HD21	1:B:245:GLU:N	2.13	0.46
1:B:316:VAL:HG13	1:B:321:VAL:HB	1.98	0.46
1:B:180:TYR:O	1:B:181:LYS:HB3	2.16	0.46
1:B:43:VAL:HG13	1:B:58:TRP:CH2	2.50	0.46
1:A:84:HIS:HB2	1:A:329:VAL:O	2.16	0.45
1:A:226:ASN:O	1:A:230:THR:HG23	2.17	0.45
1:A:198:MET:HE3	1:A:198:MET:HB2	1.84	0.45
1:A:394:ASP:HA	1:A:439:TYR:O	2.17	0.45
1:B:77:GLY:HA3	1:B:137:THR:OG1	2.17	0.44
1:A:236:GLN:HA	1:A:274:VAL:O	2.18	0.44
1:A:354:ASN:O	1:A:355:LYS:HB2	2.18	0.44
1:A:363:LEU:HD22	1:A:428:TYR:CE2	2.52	0.44
1:B:16:THR:HB	1:B:30:ARG:HA	2.00	0.44
1:B:329:VAL:HA	1:B:330:ALA:HA	1.78	0.43
1:A:71[A]:HIS:HD2	1:A:399:ASN:OD1	2.01	0.42
1:B:347:VAL:HA	1:B:350:ILE:HD12	2.00	0.42
1:A:73:PHE:CE2	1:A:75:MET:HE3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:ALA:HB2	1:A:141:TYR:CD2	2.53	0.42
1:B:327:THR:CG2	1:B:329:VAL:H	2.33	0.42
1:A:408:ASP:CG	1:B:130:ARG:HH21	2.28	0.42
1:A:287:ASN:HD21	1:A:319:HIS:HD2	1.66	0.42
1:A:446:VAL:HA	1:A:447:PRO:C	2.45	0.42
1:B:10:ALA:N	1:B:36:VAL:O	2.51	0.42
1:B:85:ALA:HB2	1:B:141:TYR:CD2	2.54	0.41
1:A:18:VAL:O	1:A:76:PRO:HD3	2.19	0.41
1:A:172:ASP:HA	1:A:182:GLU:O	2.21	0.41
1:A:221:MET:HG3	1:A:268:LEU:HD12	2.02	0.41
1:B:401:LYS:HG3	1:B:409:LEU:HD12	2.02	0.41
1:A:122:GLU:O	1:A:126:ARG:HG2	2.20	0.41
1:A:401:LYS:HB3	1:A:401:LYS:HE2	1.84	0.41
1:B:328:ASP:O	1:B:329:VAL:C	2.63	0.41
1:B:209:ILE:HG13	1:B:234:HIS:C	2.46	0.41
1:A:438:VAL:HB	1:A:446:VAL:HB	2.04	0.40
1:A:71[B]:HIS:CD2	1:A:401:LYS:HD3	2.56	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)
1:A:113:ARG:CZ	1:A:113:ARG:NH2[7_555]	1.57	0.63

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	442/455 (97%)	425 (96%)	16 (4%)	1 (0%)	43	56
1	B	441/455 (97%)	422 (96%)	18 (4%)	1 (0%)	43	56
All	All	883/910 (97%)	847 (96%)	34 (4%)	2 (0%)	43	56

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	277	HIS
1	A	277	HIS

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	382/397 (96%)	363 (95%)	19 (5%)	22	35
1	B	382/397 (96%)	360 (94%)	22 (6%)	18	29
All	All	764/794 (96%)	723 (95%)	41 (5%)	20	32

All (41) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	LYS
1	A	46	GLU
1	A	57	GLU
1	A	68	LEU
1	A	83	ILE
1	A	97	LEU
1	A	171	MET
1	A	176	THR
1	A	206	VAL
1	A	231	ARG
1	A	242	ASN
1	A	249	VAL
1	A	255	SER
1	A	314	LEU
1	A	327	THR
1	A	338	LEU
1	A	343	ARG
1	A	378	LEU
1	A	422	VAL
1	B	16	THR
1	B	41	LYS

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Mol	Chain	Res	Type
1	B	43	VAL
1	B	46	GLU
1	B	68	LEU
1	B	83	ILE
1	B	126	ARG
1	B	168	LYS
1	B	198	MET
1	B	230	THR
1	B	231	ARG
1	B	242	ASN
1	B	255	SER
1	B	314	LEU
1	B	327	THR
1	B	338	LEU
1	B	343	ARG
1	B	358	GLU
1	B	378	LEU
1	B	392	GLU
1	B	420	GLU
1	B	422	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	50	GLN
1	A	51	GLN
1	A	234	HIS
1	A	242	ASN
1	A	266	ASN
1	A	287	ASN
1	A	303	ASN
1	A	319	HIS
1	A	376	GLN
1	B	51	GLN
1	B	70	HIS
1	B	226	ASN
1	B	242	ASN
1	B	287	ASN
1	B	319	HIS
1	B	354	ASN

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](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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 [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	442/455 (97%)	0.36	14 (3%)	50 50	14, 41, 62, 79	5 (1%)
1	B	442/455 (97%)	0.24	10 (2%)	61 60	13, 39, 60, 72	4 (0%)
All	All	884/910 (97%)	0.30	24 (2%)	56 56	13, 40, 62, 79	9 (1%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	226	ASN	8.9
1	B	226	ASN	7.9
1	B	202	ASN	7.0
1	B	192	GLU	7.0
1	A	202	ASN	6.5
1	A	192	GLU	6.0
1	B	8	PRO	4.7
1	A	8	PRO	4.3
1	A	70[A]	HIS	4.3
1	A	249	VAL	3.8
1	A	62	PRO	3.2
1	A	253	TYR	2.9
1	B	250	LYS	2.8
1	B	62	PRO	2.7
1	B	58	TRP	2.7
1	B	100	LEU	2.7
1	A	252	LEU	2.6
1	B	54	LEU	2.4
1	B	68	LEU	2.3
1	A	248	ALA	2.2
1	A	256	TYR	2.2
1	A	421	ALA	2.2
1	A	58	TRP	2.1
1	A	214	ASN	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($\text{\AA}^2$)	Q<0.9
2	ZN	A	1452	1/1	1.00	0.03	38,38,38,38	0
2	ZN	B	1452	1/1	1.00	0.02	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.