



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:31 PM UTC

PDB ID : 2QZ5 / pdb_00002qz5
Title : Crystal Structure of the C-terminal domain of Aida
Authors : Zheng, L.S.
Deposited on : 2007-08-16
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 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

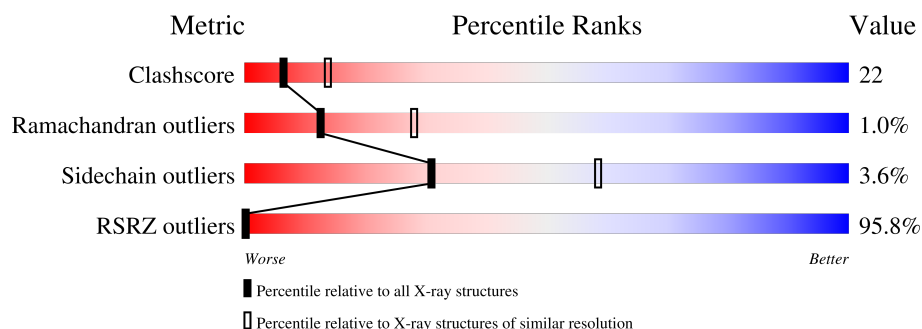
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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))
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (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	155	
1	B	155	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2558 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 Axin interactor, dorsalization associated protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	152	Total	C	N	O	S	0	0	0
			1231	803	206	217	5			
1	B	154	Total	C	N	O	S	0	0	0
			1245	813	208	219	5			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	97	LYS	ARG	SEE REMARK 999	UNP Q8C4Q6
B	97	LYS	ARG	SEE REMARK 999	UNP Q8C4Q6

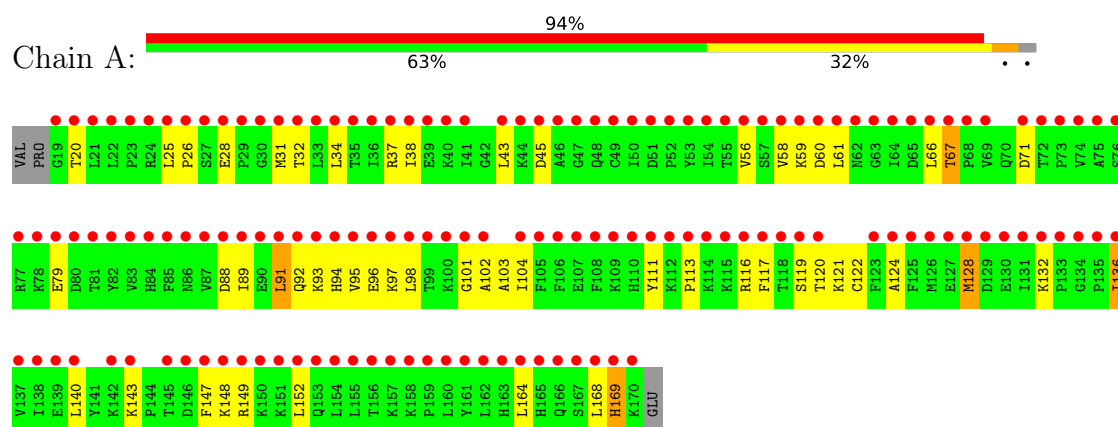
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	40	Total	O	0	0
			40	40		
2	B	42	Total	O	0	0
			42	42		

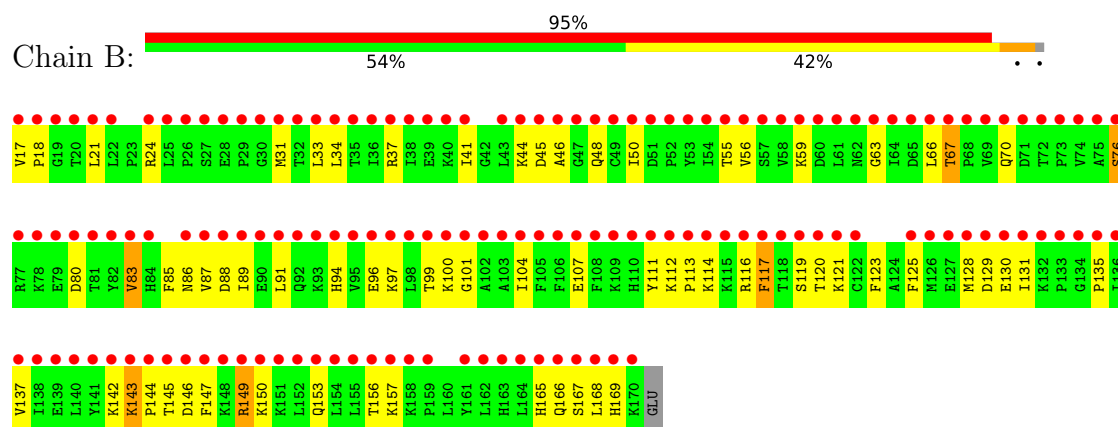
3 Residue-property plots [i](#)

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: Axin interactor, dorsalization associated protein



- Molecule 1: Axin interactor, dorsalization associated protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	32.71Å 55.73Å 86.99Å 90.00° 100.34° 90.00°	Depositor
Resolution (Å)	32.17 – 2.60 32.17 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.0 (32.17-2.60) 81.3 (32.17-2.60)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.25 (at 1.74Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.225 , 0.289 0.255 , (Not available)	Depositor DCC
R_{free} test set	44 reflections (0.02%)	wwPDB-VP
Wilson B-factor (Å ²)	16.2	Xtriage
Anisotropy	0.519	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 34.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.042 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.64	EDS
Total number of atoms	2558	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.69% 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 [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	0.51	0/1260	0.96	3/1699 (0.2%)
1	B	0.51	0/1275	0.99	4/1721 (0.2%)
All	All	0.51	0/2535	0.97	7/3420 (0.2%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	67	THR	CA-C-N	-8.10	112.01	120.03
1	B	67	THR	C-N-CA	-8.10	112.01	120.03
1	A	148	LYS	N-CA-C	-6.31	105.22	113.17
1	A	79	GLU	N-CA-C	-5.86	99.51	108.76
1	A	169	HIS	N-CA-C	5.28	117.57	109.07
1	B	157	LYS	N-CA-C	-5.22	106.91	113.28
1	B	76	SER	N-CA-C	5.19	118.75	112.93

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	1231	0	1289	50	0
1	B	1245	0	1305	62	0
2	A	40	0	0	3	0
2	B	42	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	2558	0	2594	111	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 22.

All (111) 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:17:VAL:CG1	1:B:18:PRO:HD2	1.88	1.03
1:A:128:MET:HA	1:A:128:MET:HE2	1.40	1.00
1:B:17:VAL:HG13	1:B:18:PRO:HD2	1.43	0.97
1:A:56:VAL:HG21	1:A:89:ILE:HD13	1.47	0.93
1:A:34:LEU:HD23	1:A:91:LEU:HD22	1.53	0.88
1:B:120:THR:O	1:B:143:LYS:HG2	1.81	0.79
1:A:26:PRO:HB3	1:B:76:SER:HB3	1.65	0.79
1:A:61:LEU:HG	1:A:101:GLY:HA3	1.63	0.77
1:A:128:MET:HA	1:A:128:MET:CE	2.17	0.75
1:B:17:VAL:CG1	1:B:18:PRO:CD	2.67	0.72
1:A:56:VAL:HG21	1:A:89:ILE:CD1	2.19	0.71
1:B:34:LEU:HD23	1:B:91:LEU:HD22	1.71	0.71
1:B:17:VAL:HG12	1:B:18:PRO:CD	2.21	0.71
1:A:58:VAL:HB	1:A:67:THR:HG23	1.77	0.67
1:B:31:MET:HE1	1:B:97:LYS:HG3	1.78	0.66
1:B:112:LYS:HE3	1:B:119:SER:OG	1.97	0.65
1:B:17:VAL:HG12	1:B:18:PRO:HD2	1.72	0.64
1:A:25:LEU:HD11	1:A:92:GLN:C	2.23	0.63
1:A:28:GLU:HB3	1:A:31:MET:HG3	1.80	0.62
1:A:37:ARG:HD3	1:A:88:ASP:OD1	1.99	0.62
1:B:41:ILE:HG22	1:B:83:VAL:HG13	1.81	0.61
1:B:37:ARG:HD2	1:B:88:ASP:OD1	2.01	0.61
1:B:131:ILE:HA	1:B:166:GLN:HE22	1.65	0.60
1:B:135:PRO:HA	1:B:165:HIS:HA	1.83	0.60
1:B:31:MET:HE3	1:B:94:HIS:HB2	1.85	0.58
1:B:46:ALA:HB3	1:B:80:ASP:O	2.03	0.58
1:B:59:LYS:HD3	1:B:63:GLY:O	2.04	0.57
1:A:59:LYS:HE3	1:A:147:PHE:CD1	2.38	0.57
1:A:117:PHE:CE2	1:A:119:SER:HB3	2.40	0.57
1:A:98:LEU:HD13	1:A:128:MET:HE1	1.84	0.57
1:A:59:LYS:HE3	1:A:147:PHE:CG	2.39	0.57
1:B:50:ILE:N	1:B:50:ILE:HD12	2.20	0.56
1:A:25:LEU:HD11	1:A:93:LYS:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:LYS:HD2	1:B:147:PHE:CD1	2.41	0.56
1:B:56:VAL:HG11	1:B:89:ILE:HD12	1.87	0.56
1:B:85:PHE:HB3	1:B:87:VAL:HG12	1.88	0.56
1:B:153:GLN:NE2	1:B:153:GLN:HA	2.20	0.56
1:B:128:MET:C	1:B:130:GLU:H	2.14	0.56
1:A:31:MET:HE1	1:A:97:LYS:HE3	1.89	0.54
1:B:41:ILE:CG2	1:B:83:VAL:HG13	2.37	0.54
1:B:111:TYR:O	1:B:113:PRO:HD3	2.08	0.54
1:A:121:LYS:HG2	1:A:122:CYS:SG	2.48	0.54
1:A:98:LEU:HD13	1:A:128:MET:SD	2.48	0.53
1:B:153:GLN:HA	1:B:153:GLN:HE21	1.74	0.53
1:B:56:VAL:HG21	1:B:89:ILE:HD13	1.91	0.53
1:A:38:ILE:HD11	1:A:89:ILE:CD1	2.39	0.52
1:B:66:LEU:O	1:B:67:THR:CG2	2.58	0.52
1:B:137:VAL:HG23	1:B:137:VAL:O	2.09	0.52
1:A:95:VAL:C	1:A:97:LYS:H	2.17	0.51
1:B:21:LEU:HD23	1:B:70:GLN:HB3	1.91	0.51
1:A:116:ARG:HG2	1:A:116:ARG:HH11	1.76	0.50
1:B:114:LYS:O	1:B:116:ARG:HG3	2.12	0.50
1:B:66:LEU:C	1:B:67:THR:HG23	2.38	0.49
1:B:66:LEU:O	1:B:67:THR:HG22	2.13	0.49
1:A:43:LEU:HA	2:A:198:HOH:O	2.12	0.48
1:A:168:LEU:HD12	1:A:168:LEU:N	2.29	0.48
1:A:94:HIS:O	1:A:97:LYS:HB2	2.14	0.48
1:B:56:VAL:HG11	1:B:89:ILE:CD1	2.44	0.48
1:B:104:ILE:HG13	1:B:128:MET:HE1	1.95	0.48
1:A:111:TYR:O	1:A:113:PRO:HD3	2.14	0.48
1:A:58:VAL:HB	1:A:67:THR:CG2	2.43	0.47
1:B:101:GLY:O	1:B:149:ARG:NH2	2.31	0.47
1:B:128:MET:HE2	1:B:128:MET:N	2.29	0.47
1:A:59:LYS:O	1:A:102:ALA:HA	2.14	0.47
1:B:117:PHE:C	1:B:117:PHE:CD2	2.93	0.47
1:A:103:ALA:HB2	1:A:149:ARG:CZ	2.45	0.47
1:B:104:ILE:O	1:B:125:PHE:HA	2.15	0.47
1:A:140:LEU:HD12	2:A:183:HOH:O	2.14	0.46
1:A:91:LEU:HD21	1:A:104:ILE:HD11	1.97	0.46
1:A:38:ILE:HD11	1:A:89:ILE:HD11	1.97	0.46
1:B:66:LEU:C	1:B:67:THR:CG2	2.88	0.46
1:B:117:PHE:C	1:B:117:PHE:HD2	2.23	0.46
1:A:98:LEU:HD13	1:A:128:MET:CE	2.46	0.46
1:A:38:ILE:CD1	1:A:89:ILE:HD11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:LYS:HA	1:B:144:PRO:C	2.41	0.46
1:B:45:ASP:OD1	1:B:121:LYS:HE2	2.16	0.46
1:B:24:ARG:HD3	1:B:33:LEU:HD13	1.98	0.45
1:B:167:SER:C	1:B:168:LEU:HD12	2.42	0.45
1:A:20:THR:OG1	1:A:71:ASP:N	2.49	0.45
1:B:66:LEU:HD11	1:B:99:THR:OG1	2.16	0.44
1:B:37:ARG:NH2	1:B:86:ASN:HB3	2.32	0.44
1:A:28:GLU:HG3	2:A:209:HOH:O	2.18	0.44
1:B:146:ASP:OD2	1:B:150:LYS:N	2.35	0.44
1:B:123:PHE:CG	1:B:145:THR:HG23	2.53	0.43
1:B:112:LYS:HD2	1:B:117:PHE:HE2	1.82	0.43
1:B:41:ILE:CG2	1:B:83:VAL:CG1	2.97	0.43
1:A:116:ARG:HG2	1:A:116:ARG:NH1	2.32	0.43
1:B:31:MET:HE3	1:B:94:HIS:CB	2.47	0.43
1:A:38:ILE:HA	1:A:164:LEU:CD2	2.49	0.43
1:A:91:LEU:HA	1:A:91:LEU:HD12	1.74	0.43
1:A:67:THR:OG1	1:A:92:GLN:HB2	2.18	0.43
1:A:128:MET:CE	1:A:128:MET:CA	2.94	0.43
1:B:96:GLU:H	1:B:96:GLU:CD	2.24	0.42
1:A:32:THR:HA	1:A:169:HIS:O	2.20	0.42
1:A:45:ASP:OD2	1:A:121:LYS:NZ	2.53	0.42
1:B:44:LYS:HE3	1:B:156:THR:OG1	2.19	0.42
1:B:153:GLN:HE21	1:B:153:GLN:CA	2.30	0.42
1:A:60:ASP:HB3	1:A:66:LEU:HD21	2.02	0.42
1:A:136:ILE:O	1:A:136:ILE:HG23	2.20	0.42
1:B:33:LEU:HB2	1:B:169:HIS:HD2	1.84	0.42
1:B:59:LYS:HD3	1:B:63:GLY:C	2.45	0.41
1:B:123:PHE:HE1	1:B:142:LYS:O	2.03	0.41
1:B:128:MET:C	1:B:130:GLU:N	2.77	0.41
1:A:124:ALA:HB2	1:A:140:LEU:HD23	2.03	0.41
1:B:31:MET:HE1	1:B:97:LYS:CG	2.46	0.41
1:A:38:ILE:HA	1:A:164:LEU:HD23	2.01	0.41
1:A:38:ILE:CD1	1:A:89:ILE:CD1	2.99	0.41
1:A:120:THR:O	1:A:143:LYS:HD3	2.21	0.41
1:B:48:GLN:O	1:B:50:ILE:HD12	2.22	0.40
1:B:55:THR:HB	1:B:107:GLU:HB2	2.02	0.40
1:A:102:ALA:HB3	1:A:128:MET:SD	2.62	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	150/155 (97%)	140 (93%)	9 (6%)	1 (1%)	18	38
1	B	152/155 (98%)	136 (90%)	14 (9%)	2 (1%)	9	21
All	All	302/310 (97%)	276 (91%)	23 (8%)	3 (1%)	12	28

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	96	GLU
1	B	129	ASP
1	B	100	LYS

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	139/143 (97%)	133 (96%)	6 (4%)	26	51
1	B	141/143 (99%)	137 (97%)	4 (3%)	38	66
All	All	280/286 (98%)	270 (96%)	10 (4%)	31	58

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	67	THR
1	A	91	LEU
1	A	128	MET

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Mol	Chain	Res	Type
1	A	132	LYS
1	A	136	ILE
1	A	152	LEU
1	B	83	VAL
1	B	117	PHE
1	B	143	LYS
1	B	149	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	48	GLN
1	A	62	ASN
1	A	92	GLN
1	A	163	HIS
1	B	62	ASN
1	B	153	GLN
1	B	166	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

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	152/155 (98%)	4.07	145 (95%) 0 0	6, 18, 30, 40	0
1	B	154/155 (99%)	4.24	148 (96%) 0 0	9, 20, 32, 41	0
All	All	306/310 (98%)	4.16	293 (95%) 0 0	6, 19, 32, 41	0

All (293) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	170	LYS	10.6
1	A	91	LEU	9.0
1	B	102	ALA	8.7
1	A	93	LYS	8.0
1	B	99	THR	8.0
1	B	76	SER	7.6
1	B	77	ARG	7.5
1	A	118	THR	7.4
1	A	31	MET	7.4
1	B	104	ILE	7.4
1	B	95	VAL	7.2
1	B	128	MET	7.2
1	A	140	LEU	7.1
1	A	49	CYS	7.0
1	B	75	ALA	7.0
1	B	118	THR	6.9
1	B	131	ILE	6.7
1	B	117	PHE	6.7
1	B	40	LYS	6.6
1	B	65	ASP	6.5
1	B	53	TYR	6.5
1	B	115	LYS	6.4
1	B	17	VAL	6.4
1	A	137	VAL	6.4

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Mol	Chain	Res	Type	RSRZ
1	A	101	GLY	6.3
1	B	69	VAL	6.3
1	A	86	ASN	6.1
1	B	132	LYS	6.1
1	A	27	SER	6.1
1	A	75	ALA	6.1
1	A	22	LEU	6.1
1	B	62	ASN	6.1
1	B	167	SER	6.1
1	B	168	LEU	6.1
1	B	153	GLN	5.9
1	B	71	ASP	5.9
1	A	95	VAL	5.9
1	A	99	THR	5.9
1	A	169	HIS	5.8
1	B	58	VAL	5.7
1	A	41	ILE	5.7
1	B	169	HIS	5.6
1	B	170	LYS	5.6
1	B	165	HIS	5.5
1	B	129	ASP	5.5
1	A	24	ARG	5.5
1	A	39	GLU	5.5
1	B	30	GLY	5.5
1	B	142	LYS	5.5
1	A	71	ASP	5.4
1	B	33	LEU	5.4
1	A	30	GLY	5.4
1	A	129	ASP	5.3
1	B	127	GLU	5.3
1	B	80	ASP	5.3
1	A	72	THR	5.3
1	B	66	LEU	5.3
1	B	114	LYS	5.3
1	A	136	ILE	5.2
1	B	100	LYS	5.2
1	B	133	PRO	5.1
1	B	27	SER	5.1
1	A	117	PHE	5.1
1	A	115	LYS	5.1
1	B	112	LYS	5.1
1	A	20	THR	5.1

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Mol	Chain	Res	Type	RSRZ
1	A	138	ILE	5.1
1	B	82	TYR	5.1
1	A	102	ALA	5.0
1	A	165	HIS	5.0
1	B	150	LYS	5.0
1	B	48	GLN	5.0
1	A	89	ILE	5.0
1	B	121	LYS	5.0
1	B	141	TYR	4.9
1	B	158	LYS	4.9
1	A	155	LEU	4.9
1	A	164	LEU	4.9
1	A	46	ALA	4.9
1	A	134	GLY	4.9
1	B	45	ASP	4.8
1	A	29	PRO	4.8
1	A	148	LYS	4.8
1	B	116	ARG	4.8
1	A	69	VAL	4.8
1	A	64	ILE	4.7
1	A	106	PHE	4.7
1	B	18	PRO	4.7
1	B	29	PRO	4.7
1	B	152	LEU	4.7
1	B	87	VAL	4.7
1	B	151	LYS	4.7
1	B	79	GLU	4.7
1	A	21	LEU	4.7
1	A	77	ARG	4.6
1	A	132	LYS	4.6
1	B	20	THR	4.6
1	B	61	LEU	4.6
1	B	140	LEU	4.6
1	A	26	PRO	4.6
1	B	105	PHE	4.6
1	B	28	GLU	4.6
1	A	154	LEU	4.6
1	B	21	LEU	4.6
1	A	58	VAL	4.6
1	B	122	CYS	4.5
1	A	38	ILE	4.5
1	B	41	ILE	4.5

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Mol	Chain	Res	Type	RSRZ
1	A	92	GLN	4.5
1	A	28	GLU	4.5
1	B	119	SER	4.5
1	A	47	GLY	4.5
1	B	56	VAL	4.5
1	B	159	PRO	4.4
1	A	33	LEU	4.4
1	A	74	VAL	4.4
1	A	133	PRO	4.4
1	A	135	PRO	4.4
1	A	62	ASN	4.4
1	A	128	MET	4.4
1	B	103	ALA	4.4
1	A	113	PRO	4.4
1	B	74	VAL	4.4
1	A	168	LEU	4.3
1	B	37	ARG	4.3
1	A	112	LYS	4.3
1	B	146	ASP	4.3
1	A	43	LEU	4.3
1	A	153	GLN	4.3
1	B	54	ILE	4.3
1	B	91	LEU	4.3
1	B	101	GLY	4.3
1	A	98	LEU	4.2
1	A	48	GLN	4.2
1	B	110	HIS	4.2
1	A	80	ASP	4.2
1	B	88	ASP	4.2
1	A	130	GLU	4.2
1	A	163	HIS	4.2
1	A	94	HIS	4.2
1	B	96	GLU	4.1
1	A	142	LYS	4.1
1	B	149	ARG	4.1
1	B	81	THR	4.1
1	B	163	HIS	4.1
1	A	156	THR	4.1
1	A	44	LYS	4.0
1	A	97	LYS	4.0
1	A	25	LEU	4.0
1	A	104	ILE	4.0

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Mol	Chain	Res	Type	RSRZ
1	A	61	LEU	4.0
1	B	24	ARG	4.0
1	A	53	TYR	4.0
1	A	127	GLU	4.0
1	A	36	ILE	4.0
1	A	167	SER	3.9
1	A	162	LEU	3.9
1	B	109	LYS	3.9
1	B	147	PHE	3.9
1	B	161	TYR	3.9
1	A	83	VAL	3.9
1	B	113	PRO	3.9
1	B	50	ILE	3.9
1	B	64	ILE	3.9
1	A	19	GLY	3.9
1	A	158	LYS	3.9
1	B	84	HIS	3.9
1	A	157	LYS	3.9
1	A	125	PHE	3.9
1	B	83	VAL	3.9
1	B	111	TYR	3.8
1	A	54	ILE	3.8
1	B	144	PRO	3.8
1	B	97	LYS	3.8
1	B	26	PRO	3.8
1	A	111	TYR	3.8
1	B	34	LEU	3.8
1	A	63	GLY	3.8
1	A	151	LYS	3.7
1	B	98	LEU	3.7
1	B	156	THR	3.7
1	B	39	GLU	3.7
1	B	38	ILE	3.7
1	A	124	ALA	3.7
1	A	131	ILE	3.6
1	A	34	LEU	3.6
1	B	32	THR	3.6
1	A	143	LYS	3.6
1	B	154	LEU	3.6
1	A	100	LYS	3.6
1	B	86	ASN	3.6
1	A	96	GLU	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	37	ARG	3.5
1	A	60	ASP	3.5
1	A	78	LYS	3.5
1	A	85	PHE	3.5
1	A	51	ASP	3.5
1	A	114	LYS	3.5
1	B	70	GLN	3.5
1	B	36	ILE	3.5
1	B	145	THR	3.5
1	A	161	TYR	3.4
1	B	44	LYS	3.4
1	A	81	THR	3.4
1	B	73	PRO	3.4
1	A	123	PHE	3.4
1	B	139	GLU	3.4
1	A	66	LEU	3.4
1	B	126	MET	3.4
1	B	130	GLU	3.4
1	A	150	LYS	3.3
1	A	68	PRO	3.3
1	B	164	LEU	3.3
1	A	45	ASP	3.3
1	B	93	LYS	3.3
1	B	63	GLY	3.3
1	B	108	PHE	3.3
1	A	159	PRO	3.3
1	B	52	PRO	3.3
1	A	108	PHE	3.3
1	B	125	PHE	3.3
1	B	43	LEU	3.2
1	A	166	GLN	3.2
1	B	92	GLN	3.2
1	A	82	TYR	3.2
1	B	134	GLY	3.2
1	A	116	ARG	3.2
1	A	56	VAL	3.2
1	A	107	GLU	3.2
1	B	107	GLU	3.2
1	B	35	THR	3.2
1	A	147	PHE	3.2
1	A	40	LYS	3.1
1	B	31	MET	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	110	HIS	3.1
1	B	47	GLY	3.1
1	B	55	THR	3.1
1	B	138	ILE	3.1
1	A	149	ARG	3.1
1	B	155	LEU	3.0
1	A	73	PRO	3.0
1	B	166	GLN	3.0
1	B	157	LYS	3.0
1	B	137	VAL	3.0
1	B	162	LEU	3.0
1	A	88	ASP	3.0
1	B	60	ASP	3.0
1	A	50	ILE	3.0
1	B	90	GLU	3.0
1	A	126	MET	3.0
1	B	67	THR	3.0
1	B	59	LYS	2.9
1	A	109	LYS	2.9
1	B	106	PHE	2.9
1	B	89	ILE	2.9
1	B	136	ILE	2.9
1	A	67	THR	2.9
1	A	139	GLU	2.9
1	B	22	LEU	2.9
1	A	65	ASP	2.8
1	A	76	SER	2.8
1	A	52	PRO	2.8
1	B	143	LYS	2.8
1	B	120	THR	2.8
1	A	79	GLU	2.7
1	A	90	GLU	2.7
1	B	68	PRO	2.7
1	B	148	LYS	2.7
1	A	23	PRO	2.7
1	A	145	THR	2.7
1	B	49	CYS	2.7
1	B	25	LEU	2.7
1	A	57	SER	2.7
1	B	135	PRO	2.7
1	B	57	SER	2.6
1	B	78	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	105	PHE	2.6
1	B	19	GLY	2.5
1	A	120	THR	2.5
1	B	72	THR	2.5
1	A	119	SER	2.5
1	A	160	LEU	2.4
1	B	46	ALA	2.4
1	A	87	VAL	2.4
1	A	152	LEU	2.3
1	A	59	LYS	2.3
1	A	35	THR	2.3
1	B	94	HIS	2.3
1	A	32	THR	2.3
1	A	146	ASP	2.2
1	A	55	THR	2.1
1	A	84	HIS	2.1
1	B	51	ASP	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.