



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2014 – 01:38 AM GMT

PDB ID : 2QZ5
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 validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

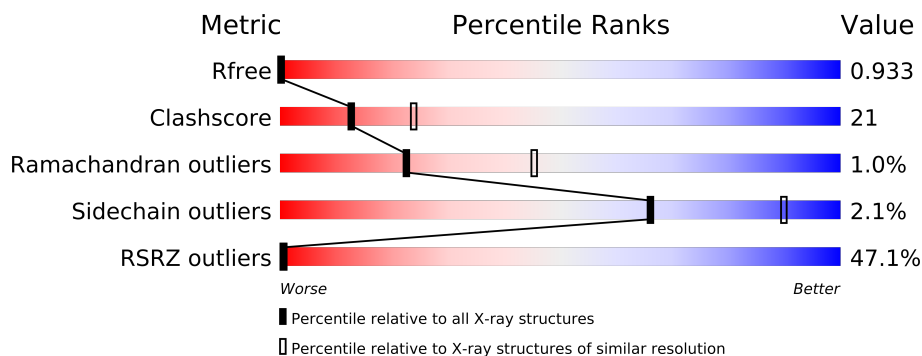
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance


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}	66092	1718 (2.60-2.60)
Clashscore	79885	2154 (2.60-2.60)
Ramachandran outliers	78287	2113 (2.60-2.60)
Sidechain outliers	78261	2113 (2.60-2.60)
RSRZ outliers	66119	1718 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

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 hydrogen and 0 are deuterium.

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.

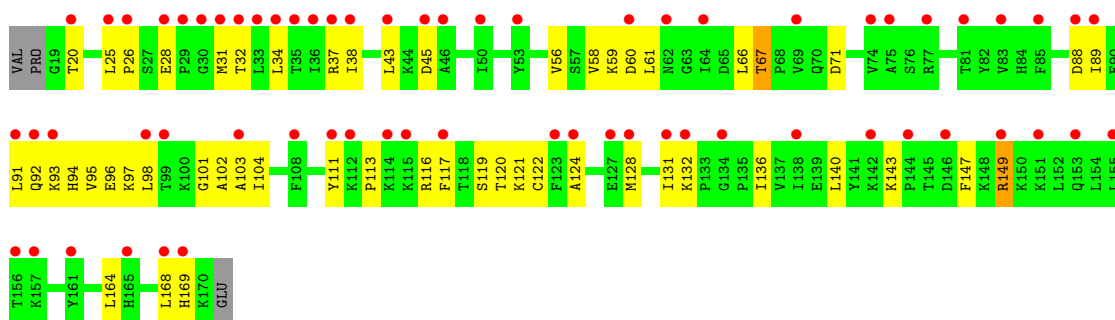
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	40	Total	O	0	0
			40	40		
2	B	42	Total	O	0	0
			42	42		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

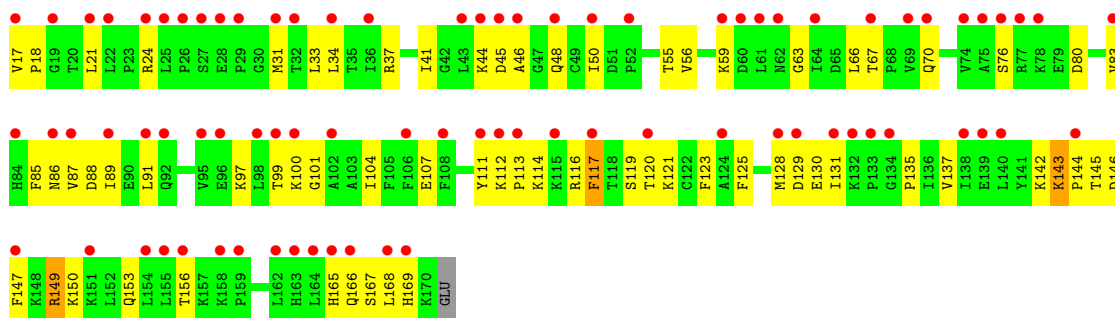
- Molecule 1: Axin interactor, dorsalization associated protein

Chain A: 



- Molecule 1: Axin interactor, dorsalization associated protein

Chain B: 



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 32.18 – 1.74	Depositor EDS
% Data completeness (in resolution range)	99.0 (32.17-2.60) 73.6 (32.18-1.74)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 1.74Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.225 , 0.289 0.266 , 0.933	Depositor DCC
R_{free} test set	4 reflections (0.02%)	DCC
Wilson B-factor (Å ²)	15.6	Xtriage
Anisotropy	0.393	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 19.9	EDS
Estimated twinning fraction	0.032 for h,-k,-h-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 190913 reflections	Xtriage
F_o, F_c correlation	0.66	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 6.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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	0.45	0/1260	0.70	0/1699
1	B	0.45	0/1275	0.69	0/1721
All	All	0.45	0/2535	0.69	0/3420

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1231	0	1289	51	0
1	B	1245	0	1305	56	0
2	A	40	0	0	3	0
2	B	42	0	0	0	0
All	All	2558	0	2594	106	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 21.

All (106) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:17:VAL:CG1	1:B:18:PRO:HD2	1.88	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:B:31:MET:HE1	1:B:97:LYS:CE	2.16	0.76
1:A:128:MET:CE	1:A:128:MET:HA	2.17	0.75
1:A:128:MET:HE2	1:A:128:MET:HA	1.69	0.74
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:B:31:MET:HE1	1:B:97:LYS:HE3	1.74	0.69
1:A:58:VAL:HB	1:A:67:THR:HG23	1.77	0.67
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: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:A:128:MET:HE2	1:A:131:ILE:HD12	1.82	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:A:25:LEU:HD11	1:A:92:GLN:C	2.23	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:98:LEU:HD13	1:A:128:MET:HE1	1.86	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: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
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: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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:137:VAL:O	1:B:137:VAL:HG23	2.09	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:A:128:MET:HE2	1:A:131:ILE:CD1	2.40	0.51
1:B:128:MET:C	1:B:130:GLU:H	2.14	0.51
1:B:21:LEU:HD23	1:B:70:GLN:HB3	1.91	0.51
1:A:116:ARG:HH11	1:A:116:ARG:HG2	1.76	0.50
1:B:114:LYS:O	1:B:116:ARG:HG3	2.12	0.50
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:N	1:A:168:LEU:HD12	2.29	0.48
1:B:56:VAL:HG11	1:B:89:ILE:CD1	2.44	0.48
1:A:94:HIS:O	1:A:97:LYS:HB2	2.14	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:A:59:LYS:O	1:A:102:ALA:HA	2.14	0.47
1:A:95:VAL:C	1:A:97:LYS:H	2.17	0.47
1:B:104:ILE:O	1:B:125:PHE:HA	2.15	0.47
1:A:103:ALA:HB2	1:A:149:ARG:CZ	2.45	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: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
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:A:20:THR:OG1	1:A:71:ASP:N	2.49	0.45
1:B:66:LEU:C	1:B:67:THR:HG23	2.38	0.44
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:B:31:MET:HE1	1:B:97:LYS:CD	2.47	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:NH1	1:A:116:ARG:HG2	2.32	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:128:MET:CE	1:A:128:MET:CA	2.94	0.43
1:B:117:PHE:C	1:B:117:PHE:CD2	2.93	0.42
1:A:45:ASP:OD2	1:A:121:LYS:NZ	2.53	0.42
1:A:32:THR:HA	1:A:169:HIS:O	2.20	0.42
1:B:153:GLN:CA	1:B:153:GLN:HE21	2.30	0.42
1:B:44:LYS:HE3	1:B:156:THR:OG1	2.19	0.42
1:A:60:ASP:HB3	1:A:66:LEU:HD21	2.02	0.42
1:B:33:LEU:HB2	1:B:169:HIS:HD2	1.84	0.42
1:A:136:ILE:O	1:A:136:ILE:HG23	2.20	0.42
1:B:123:PHE:HE1	1:B:142:LYS:O	2.03	0.41
1:B:117:PHE:C	1:B:117:PHE:HD2	2.23	0.41
1:A:124:ALA:HB2	1:A:140:LEU:HD23	2.03	0.41
1:B:66:LEU:C	1:B:67:THR:CG2	2.88	0.41
1:B:143:LYS:HA	1:B:144:PRO:C	2.41	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:167:SER:C	1:B:168:LEU:HD12	2.42	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%)	30	58
1	B	152/155 (98%)	136 (90%)	14 (9%)	2 (1%)	18	35
All	All	302/310 (97%)	276 (91%)	23 (8%)	3 (1%)	22	45

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%)	136 (98%)	3 (2%)	64	89
1	B	141/143 (99%)	138 (98%)	3 (2%)	66	90
All	All	280/286 (98%)	274 (98%)	6 (2%)	66	90

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	67	THR
1	A	132	LYS
1	A	149	ARG
1	B	117	PHE
1	B	143	LYS
1	B	149	ARG

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

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

5.3.3 RNA ⓘ

There are no RNA chains 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 carbohydrates 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%)	1.92	64 (42%)	1 0	6, 18, 30, 40	0
1	B	154/155 (99%)	2.15	80 (51%)	0 0	9, 20, 32, 41	0
All	All	306/310 (98%)	2.03	144 (47%)	1 0	6, 19, 32, 41	0

All (144) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	76	SER	9.7
1	B	128	MET	6.7
1	B	17	VAL	5.8
1	A	31	MET	5.8
1	A	132	LYS	5.8
1	B	117	PHE	5.6
1	A	156	THR	5.3
1	A	91	LEU	5.1
1	A	144	PRO	4.8
1	A	60	ASP	4.7
1	B	169	HIS	4.7
1	A	128	MET	4.6
1	A	169	HIS	4.5
1	B	95	VAL	4.3
1	B	89	ILE	4.3
1	A	92	GLN	4.2
1	A	88	ASP	4.2
1	A	26	PRO	4.1
1	A	32	THR	4.1
1	A	33	LEU	4.0
1	B	31	MET	4.0
1	B	52	PRO	3.9
1	B	77	ARG	3.8
1	B	129	ASP	3.8

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Mol	Chain	Res	Type	RSRZ
1	B	28	GLU	3.7
1	A	62	ASN	3.7
1	B	154	LEU	3.7
1	B	113	PRO	3.7
1	B	133	PRO	3.7
1	B	132	LYS	3.6
1	B	99	THR	3.6
1	A	77	ARG	3.5
1	B	140	LEU	3.5
1	B	165	HIS	3.4
1	A	64	ILE	3.4
1	B	45	ASP	3.3
1	B	139	GLU	3.3
1	B	75	ALA	3.3
1	A	98	LEU	3.3
1	B	25	LEU	3.3
1	B	98	LEU	3.2
1	A	89	ILE	3.2
1	B	155	LEU	3.2
1	B	131	ILE	3.1
1	B	144	PRO	3.1
1	A	149	ARG	3.1
1	A	28	GLU	3.1
1	B	36	ILE	3.1
1	B	138	ILE	3.1
1	A	99	THR	3.0
1	A	37	ARG	3.0
1	A	74	VAL	3.0
1	B	59	LYS	3.0
1	B	91	LEU	3.0
1	A	168	LEU	3.0
1	B	62	ASN	2.9
1	B	163	HIS	2.9
1	B	60	ASP	2.9
1	A	43	LEU	2.8
1	B	44	LYS	2.8
1	B	26	PRO	2.8
1	A	165	HIS	2.8
1	A	138	ILE	2.8
1	B	74	VAL	2.8
1	B	84	HIS	2.8
1	A	114	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	100	LYS	2.7
1	B	159	PRO	2.7
1	B	168	LEU	2.6
1	B	106	PHE	2.6
1	A	124	ALA	2.6
1	A	108	PHE	2.6
1	B	87	VAL	2.6
1	A	45	ASP	2.5
1	B	115	LYS	2.5
1	B	48	GLN	2.5
1	B	46	ALA	2.5
1	B	19	GLY	2.5
1	B	61	LEU	2.5
1	A	134	GLY	2.5
1	B	166	GLN	2.5
1	B	151	LYS	2.5
1	A	131	ILE	2.5
1	B	50	ILE	2.5
1	B	43	LEU	2.4
1	B	96	GLU	2.4
1	A	34	LEU	2.4
1	A	29	PRO	2.4
1	A	20	THR	2.4
1	A	112	LYS	2.4
1	B	102	ALA	2.4
1	B	67	THR	2.4
1	A	50	ILE	2.4
1	A	155	LEU	2.4
1	B	111	TYR	2.4
1	B	124	ALA	2.4
1	B	21	LEU	2.4
1	B	64	ILE	2.3
1	A	142	LYS	2.3
1	A	46	ALA	2.3
1	A	117	PHE	2.3
1	A	161	TYR	2.3
1	A	81	THR	2.3
1	A	69	VAL	2.3
1	A	153	GLN	2.3
1	B	70	GLN	2.3
1	B	156	THR	2.3
1	A	36	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	127	GLU	2.3
1	B	34	LEU	2.3
1	B	112	LYS	2.3
1	B	92	GLN	2.3
1	A	75	ALA	2.2
1	A	115	LYS	2.2
1	A	151	LYS	2.2
1	B	120	THR	2.2
1	B	164	LEU	2.2
1	A	38	ILE	2.2
1	A	157	LYS	2.2
1	B	29	PRO	2.2
1	B	134	GLY	2.2
1	B	69	VAL	2.2
1	A	85	PHE	2.2
1	B	32	THR	2.1
1	B	86	ASN	2.1
1	A	83	VAL	2.1
1	A	103	ALA	2.1
1	B	158	LYS	2.1
1	A	111	TYR	2.1
1	B	83	VAL	2.1
1	A	53	TYR	2.1
1	A	93	LYS	2.1
1	B	108	PHE	2.1
1	B	27	SER	2.1
1	B	78	LYS	2.1
1	A	146	ASP	2.0
1	A	123	PHE	2.0
1	B	147	PHE	2.0
1	B	22	LEU	2.0
1	B	162	LEU	2.0
1	A	35	THR	2.0
1	B	24	ARG	2.0
1	A	30	GLY	2.0
1	A	25	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.