



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 25, 2021 – 01:59 PM EDT

PDB ID : 7LGN
Title : Cyanophycin synthetase 1 from *T. morbirosei*
Authors : Sharon, I.; Schmeing, T.M.
Deposited on : 2021-01-20
Resolution : 3.10 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.23.2
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.23.2

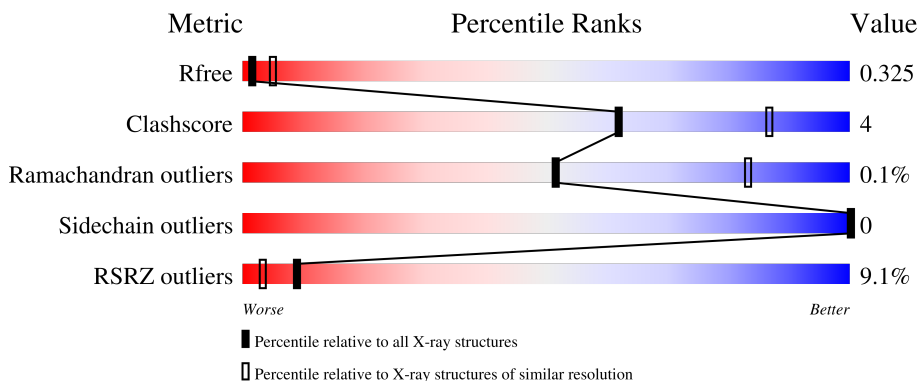
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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	909	 4% 71% 6% 22%
1	B	909	 11% 84% 9% 6%

2 Entry composition i

There is only 1 type of molecule in this entry. The entry contains 11790 atoms, of which 0 are hydrogens and 0 are deuteriums.

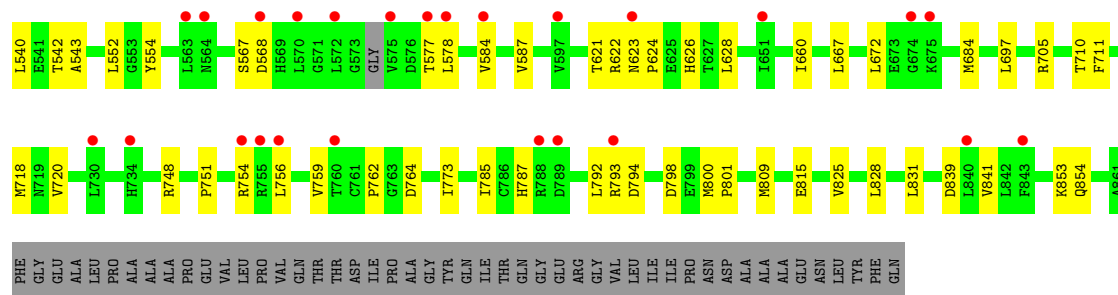
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Cyanophycin synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	706	5321	3322	945	1025	29	0	0	0
1	B	850	6469	4040	1154	1236	39	0	0	0

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	901	ALA	-	expression tag	UNP A0A095T5Z8
A	902	ALA	-	expression tag	UNP A0A095T5Z8
A	903	ALA	-	expression tag	UNP A0A095T5Z8
A	904	GLU	-	expression tag	UNP A0A095T5Z8
A	905	ASN	-	expression tag	UNP A0A095T5Z8
A	906	LEU	-	expression tag	UNP A0A095T5Z8
A	907	TYR	-	expression tag	UNP A0A095T5Z8
A	908	PHE	-	expression tag	UNP A0A095T5Z8
A	909	GLN	-	expression tag	UNP A0A095T5Z8
B	901	ALA	-	expression tag	UNP A0A095T5Z8
B	902	ALA	-	expression tag	UNP A0A095T5Z8
B	903	ALA	-	expression tag	UNP A0A095T5Z8
B	904	GLU	-	expression tag	UNP A0A095T5Z8
B	905	ASN	-	expression tag	UNP A0A095T5Z8
B	906	LEU	-	expression tag	UNP A0A095T5Z8
B	907	TYR	-	expression tag	UNP A0A095T5Z8
B	908	PHE	-	expression tag	UNP A0A095T5Z8
B	909	GLN	-	expression tag	UNP A0A095T5Z8



4 Data and refinement statistics

Property	Value	Source
Space group	I 41	Depositor
Cell constants a, b, c, α , β , γ	222.56Å 222.56Å 105.22Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	72.31 – 3.10 157.37 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (72.31-3.10) 94.1 (157.37-3.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.33 (at 3.07Å)	Xtrriage
Refinement program	REFMAC 5	Depositor
R, R_{free}	0.270 , 0.326 0.274 , 0.325	Depositor DCC
R_{free} test set	2413 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	79.5	Xtrriage
Anisotropy	0.798	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 83.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.015 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	11790	wwPDB-VP
Average B, all atoms (Å ²)	130.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.70% 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	0.41	0/5399	0.79	0/7324
1	B	0.39	0/6566	0.77	2/8895 (0.0%)
All	All	0.40	0/11965	0.78	2/16219 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	792	LEU	N-CA-C	7.38	130.92	111.00
1	B	792	LEU	N-CA-CB	-5.63	99.13	110.40

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	5321	0	5386	39	0
1	B	6469	0	6502	71	0
All	All	11790	0	11888	105	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 4.

All (105) 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:759:VAL:HG21	1:B:831:LEU:HD11	1.64	0.79
1:B:12:PRO:HD2	1:B:552:LEU:HB2	1.68	0.75
1:B:759:VAL:CG2	1:B:831:LEU:HD11	2.18	0.73
1:A:25:VAL:HB	1:A:31:TYR:HD1	1.55	0.72
1:B:825:VAL:HG13	1:B:854:GLN:NE2	2.04	0.71
1:B:4:ILE:HD11	1:B:24:THR:CG2	2.22	0.70
1:A:171:ASN:HB2	1:B:208:MET:CE	2.23	0.69
1:B:4:ILE:HD11	1:B:24:THR:HG23	1.73	0.69
1:B:825:VAL:HG13	1:B:854:GLN:HE22	1.57	0.69
1:A:180:GLN:HB2	1:A:472:PRO:HD2	1.74	0.68
1:B:809:MET:SD	1:B:815:GLU:HB2	2.35	0.66
1:B:828:LEU:HD23	1:B:854:GLN:OE1	1.95	0.65
1:B:793:ARG:HG2	1:B:794:ASP:N	2.12	0.64
1:B:754:ARG:HB2	1:B:839:ASP:OD1	1.98	0.63
1:A:500:VAL:HG23	1:A:537:ILE:HG23	1.81	0.63
1:B:793:ARG:HG2	1:B:794:ASP:H	1.63	0.63
1:A:660:ILE:CG2	1:A:697:LEU:HD11	2.31	0.60
1:B:245:VAL:O	1:B:257:SER:OG	2.20	0.60
1:A:19:PRO:HD2	1:A:99:TYR:O	2.02	0.59
1:A:192:THR:O	1:A:195:THR:HG22	2.04	0.56
1:B:584:VAL:O	1:B:587:VAL:HG22	2.05	0.56
1:B:759:VAL:HG22	1:B:785:ILE:HB	1.88	0.55
1:B:536:ASP:O	1:B:536:ASP:OD1	2.25	0.54
1:B:180:GLN:HB2	1:B:472:PRO:CD	2.38	0.54
1:A:180:GLN:HB2	1:A:472:PRO:CD	2.38	0.53
1:A:19:PRO:HD3	1:A:101:TYR:CD1	2.43	0.53
1:B:465:ALA:HA	1:B:468:GLN:HB2	1.90	0.53
1:B:754:ARG:CB	1:B:839:ASP:OD1	2.55	0.52
1:B:132:ASP:O	1:B:132:ASP:OD1	2.28	0.51
1:A:565:VAL:HG21	1:A:604:TYR:HB2	1.92	0.51
1:B:798:ASP:OD1	1:B:798:ASP:N	2.43	0.51
1:B:762:PRO:HG3	1:B:773:ILE:HD13	1.93	0.50
1:B:622:ARG:C	1:B:624:PRO:HD2	2.31	0.50
1:B:1:MET:H3	1:B:115:CYS:HB3	1.76	0.50
1:A:29:PRO:C	1:A:31:TYR:H	2.15	0.49
1:A:491:HIS:NE2	1:A:706:THR:O	2.46	0.49
1:B:476:LEU:CD1	1:B:540:LEU:O	2.61	0.49
1:B:720:VAL:HG23	1:B:720:VAL:O	2.12	0.49
1:A:14:THR:OG1	1:A:15:PHE:N	2.46	0.49
1:B:89:SER:OG	1:B:90:GLN:N	2.45	0.48
1:A:427:THR:O	1:A:429:GLY:N	2.47	0.48
1:A:524:VAL:O	1:A:528:MET:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:LEU:HB2	1:A:220:VAL:HG21	1.95	0.48
1:B:759:VAL:HG12	1:B:787:HIS:ND1	2.29	0.47
1:B:180:GLN:HB2	1:B:472:PRO:HD2	1.95	0.47
1:B:479:THR:OG1	1:B:480:ASN:N	2.47	0.47
1:B:764:ASP:N	1:B:764:ASP:OD1	2.36	0.47
1:B:19:PRO:HD2	1:B:99:TYR:O	2.15	0.47
1:A:284:SER:HB3	1:B:853:LYS:NZ	2.30	0.47
1:A:428:LEU:HD22	1:B:853:LYS:HE2	1.96	0.47
1:B:621:THR:O	1:B:684:MET:HE1	2.15	0.47
1:A:359:THR:HG23	1:A:361:ASP:H	1.80	0.46
1:A:294:LEU:HD21	1:A:454:VAL:HG11	1.98	0.46
1:B:4:ILE:CD1	1:B:24:THR:HG23	2.45	0.46
1:B:437:GLY:N	1:B:438:PRO:CD	2.78	0.46
1:B:542:THR:OG1	1:B:543:ALA:N	2.49	0.46
1:A:476:LEU:HD23	1:A:588:ILE:HG12	1.99	0.45
1:B:180:GLN:HB2	1:B:472:PRO:HD3	1.98	0.45
1:B:762:PRO:HG3	1:B:773:ILE:CD1	2.46	0.45
1:B:476:LEU:HD13	1:B:540:LEU:O	2.16	0.45
1:A:476:LEU:HD13	1:A:540:LEU:O	2.17	0.45
1:B:793:ARG:CG	1:B:794:ASP:H	2.29	0.45
1:B:831:LEU:HD13	1:B:841:VAL:HG13	1.99	0.45
1:A:171:ASN:HB2	1:B:208:MET:HE1	1.97	0.45
1:A:437:GLY:N	1:A:438:PRO:CD	2.80	0.45
1:B:787:HIS:CG	1:B:787:HIS:O	2.70	0.45
1:B:751:PRO:HG2	1:B:756:LEU:HD21	1.99	0.44
1:A:13:ASN:N	1:A:13:ASN:OD1	2.50	0.44
1:A:660:ILE:HG22	1:A:697:LEU:HD11	1.98	0.44
1:B:241:TYR:N	1:B:242:PRO:CD	2.80	0.44
1:A:170:MET:HE2	1:A:175:LEU:HG	1.99	0.44
1:B:12:PRO:HB2	1:B:552:LEU:HD13	1.99	0.44
1:B:577:THR:OG1	1:B:578:LEU:N	2.51	0.44
1:B:787:HIS:O	1:B:787:HIS:CD2	2.70	0.44
1:B:626:HIS:CE1	1:B:628:LEU:HB3	2.52	0.43
1:B:793:ARG:CG	1:B:794:ASP:N	2.79	0.43
1:A:163:ARG:O	1:A:470:ARG:NH1	2.52	0.43
1:B:409:ASP:OD1	1:B:409:ASP:N	2.52	0.43
1:B:27:ILE:HG22	1:B:29:PRO:HD2	2.00	0.43
1:B:710:THR:O	1:B:711:PHE:HB2	2.19	0.43
1:A:450:LYS:HB2	1:A:452:ARG:HH12	1.83	0.43
1:B:260:LEU:HB3	1:B:266:VAL:HG22	2.01	0.43
1:B:623:ASN:N	1:B:624:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:THR:HG23	1:A:195:THR:O	2.19	0.42
1:B:567:SER:OG	1:B:568:ASP:N	2.51	0.42
1:A:335:GLY:H	1:A:338:ASN:HD22	1.66	0.42
1:B:23:LEU:C	1:B:23:LEU:HD12	2.40	0.42
1:B:23:LEU:HD12	1:B:24:THR:N	2.35	0.42
1:B:718:MET:HG2	1:B:718:MET:O	2.20	0.42
1:B:672:LEU:CD1	1:B:748:ARG:NH2	2.83	0.41
1:B:231:GLU:O	1:B:233:VAL:N	2.53	0.41
1:A:409:ASP:N	1:A:409:ASP:OD1	2.53	0.41
1:B:476:LEU:HD22	1:B:554:TYR:OH	2.20	0.41
1:A:157:VAL:CG2	1:A:176:ILE:HD13	2.50	0.41
1:A:171:ASN:HB2	1:B:208:MET:SD	2.60	0.41
1:A:475:ALA:HA	1:A:559:VAL:O	2.21	0.41
1:B:660:ILE:HG21	1:B:697:LEU:HD11	2.01	0.41
1:B:241:TYR:N	1:B:242:PRO:HD3	2.36	0.41
1:B:623:ASN:N	1:B:624:PRO:CD	2.82	0.41
1:B:800:MET:HB2	1:B:801:PRO:HD3	2.03	0.41
1:A:229:GLU:HB3	1:A:270:TYR:OH	2.21	0.41
1:A:274:GLU:N	1:A:275:PRO:HD2	2.36	0.41
1:A:254:ARG:O	1:A:254:ARG:HG2	2.21	0.40
1:A:213:LEU:CB	1:A:220:VAL:HG21	2.51	0.40
1:B:667:LEU:HD13	1:B:705:ARG:CZ	2.51	0.40

There are no symmetry-related clashes.

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	700/909 (77%)	670 (96%)	30 (4%)	0	100	100
1	B	838/909 (92%)	790 (94%)	47 (6%)	1 (0%)	51	83
All	All	1538/1818 (85%)	1460 (95%)	77 (5%)	1 (0%)	51	83

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	13	ASN

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	569/735 (77%)	569 (100%)	0	100	100
1	B	690/735 (94%)	690 (100%)	0	100	100
All	All	1259/1470 (86%)	1259 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	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 monosaccharides 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	706/909 (77%)	0.41	40 (5%) 23 11	48, 102, 205, 250	0
1	B	850/909 (93%)	0.74	102 (12%) 4 2	58, 132, 237, 273	0
All	All	1556/1818 (85%)	0.59	142 (9%) 9 3	48, 115, 227, 273	0

All (142) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	118	LEU	9.9
1	B	1	MET	7.0
1	A	578	LEU	6.5
1	B	236	ALA	6.1
1	B	133	LEU	6.0
1	B	120	ALA	5.8
1	B	115	CYS	5.7
1	B	117	MET	5.3
1	B	121	LEU	5.3
1	B	266	VAL	5.2
1	B	29	PRO	5.1
1	B	572	LEU	5.1
1	B	312	ALA	5.0
1	A	227	TYR	4.8
1	A	50	VAL	4.6
1	B	228	ASP	4.6
1	B	577	THR	4.4
1	B	440	LEU	4.3
1	B	65	LEU	4.2
1	B	134	SER	4.2
1	B	273	ALA	4.1
1	A	257	SER	4.0
1	B	60	GLN	4.0
1	B	578	LEU	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	577	THR	3.9
1	A	228	ASP	3.9
1	A	49	VAL	3.9
1	B	754	ARG	3.8
1	B	233	VAL	3.8
1	B	249	ASP	3.8
1	B	840	LEU	3.8
1	A	224	ARG	3.8
1	B	63	GLY	3.8
1	B	235	ALA	3.8
1	B	283	GLU	3.8
1	B	239	ILE	3.8
1	B	281	ILE	3.7
1	B	23	LEU	3.7
1	A	93	ASP	3.6
1	B	568	ASP	3.6
1	A	31	TYR	3.4
1	B	270	TYR	3.4
1	A	54	SER	3.4
1	B	46	LEU	3.4
1	A	23	LEU	3.4
1	B	279	ALA	3.4
1	B	369	GLU	3.3
1	B	575	VAL	3.3
1	B	140	TYR	3.3
1	B	97	VAL	3.3
1	B	584	VAL	3.2
1	A	25	VAL	3.2
1	A	55	SER	3.1
1	A	24	THR	3.1
1	B	69	LEU	3.1
1	B	43	TYR	3.1
1	B	271	GLY	3.0
1	B	245	VAL	3.0
1	A	21	ILE	3.0
1	B	4	ILE	3.0
1	B	90	GLN	2.9
1	B	788	ARG	2.9
1	B	674	GLY	2.9
1	B	793	ARG	2.8
1	A	38	LEU	2.8
1	A	34	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	125	GLU	2.8
1	A	675	LYS	2.7
1	B	230	ASP	2.7
1	B	3	ILE	2.7
1	B	21	ILE	2.7
1	B	319	ILE	2.7
1	B	272	LEU	2.7
1	B	352	LEU	2.7
1	A	56	ASP	2.6
1	B	260	LEU	2.6
1	B	755	ARG	2.6
1	A	280	VAL	2.6
1	B	734	HIS	2.6
1	B	730	LEU	2.6
1	A	705	ARG	2.6
1	B	81	GLY	2.6
1	B	756	LEU	2.6
1	B	111	GLY	2.5
1	B	287	ARG	2.5
1	A	174	SER	2.5
1	B	55	SER	2.5
1	B	8	VAL	2.5
1	B	225	VAL	2.5
1	B	563	LEU	2.5
1	A	60	GLN	2.5
1	A	63	GLY	2.5
1	B	189	ALA	2.5
1	B	359	THR	2.5
1	B	408	LEU	2.5
1	A	90	GLN	2.4
1	B	410	VAL	2.4
1	B	843	PHE	2.4
1	B	114	ALA	2.4
1	B	229	GLU	2.4
1	B	429	GLY	2.3
1	B	760	THR	2.3
1	A	529	VAL	2.3
1	A	477	THR	2.3
1	B	623	ASN	2.3
1	B	651	ILE	2.3
1	A	42	VAL	2.3
1	B	252	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	789	ASP	2.3
1	B	50	VAL	2.3
1	B	241	TYR	2.3
1	B	280	VAL	2.3
1	A	1	MET	2.3
1	B	345	LEU	2.2
1	A	126	ALA	2.2
1	B	570	LEU	2.2
1	B	261	THR	2.2
1	A	140	TYR	2.2
1	B	363	ILE	2.2
1	B	62	PRO	2.2
1	B	67	ALA	2.1
1	B	320	ARG	2.1
1	B	373	ARG	2.1
1	A	572	LEU	2.1
1	B	130	ALA	2.1
1	B	136	HIS	2.1
1	B	564	ASN	2.1
1	A	672	LEU	2.1
1	A	479	THR	2.1
1	A	544	ARG	2.1
1	B	675	LYS	2.1
1	B	84	ALA	2.1
1	B	76	LEU	2.1
1	B	126	ALA	2.1
1	B	293	LEU	2.1
1	A	85	PHE	2.1
1	A	281	ILE	2.1
1	B	411	GLY	2.1
1	A	106	ILE	2.1
1	A	80	GLU	2.1
1	B	244	VAL	2.1
1	B	597	VAL	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 monosaccharides 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.