



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:28 AM UTC

PDB ID : 8VJW / pdb_00008vjw
Title : Structure of Human Neurolysin in complex with angiotensin I peptide
Authors : Shi, K.; Aihara, H.
Deposited on : 2024-01-08
Resolution : 2.49 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

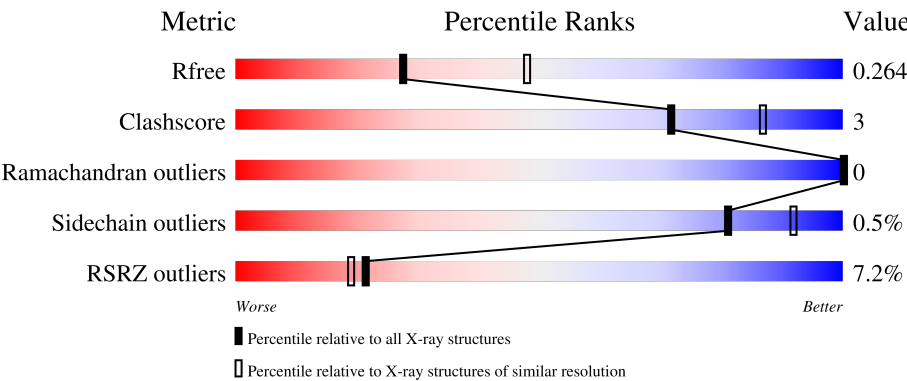
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.49 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	667	6% 90% 10%
1	B	667	7% 91% 9%
2	C	4	50% 50% 50%
2	E	4	50% 50% 50%
3	D	6	67% 33% 33% 33%

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Mol	Chain	Length	Quality of chain
3	F	6	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 10838 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 Neurolysin, mitochondrial.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	665	Total	C	N	O	S	0	0	0
			5359	3404	904	1014	37			
1	B	665	Total	C	N	O	S	0	0	0
			5359	3404	904	1014	37			

- Molecule 2 is a protein called Angiotensin-1 peptide N-terminal end.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	2	Total	C	N	O	0	2	0
			19	14	2	3			
2	E	2	Total	C	N	O	0	2	0
			19	14	2	3			

- Molecule 3 is a protein called Angiotensin-1 peptide C-terminal end.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	D	4	Total	C	N	O	0	3	0
			36	26	6	4			
3	F	4	Total	C	N	O	0	3	0
			36	26	6	4			

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		
4	B	1	Total	Zn	0	0
			1	1		

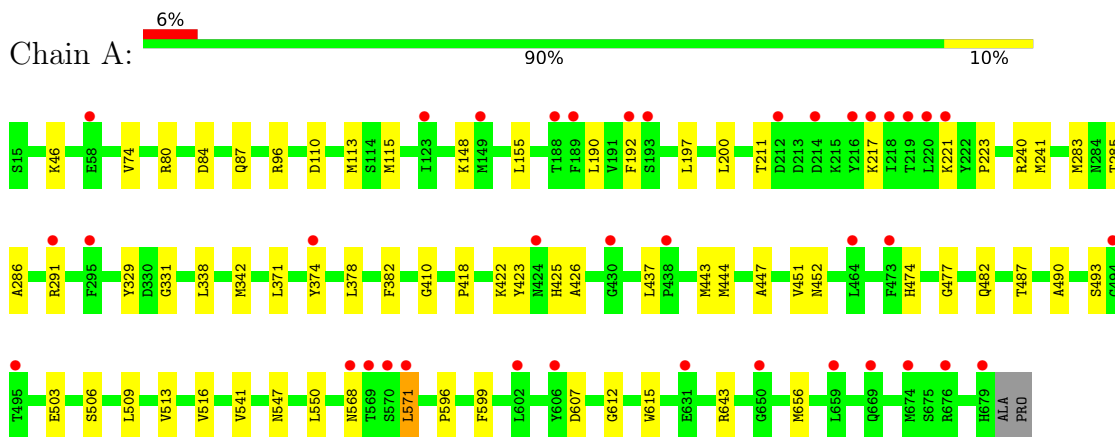
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	2	Total 2	O 2	0	0
5	B	6	Total 6	O 6	0	0

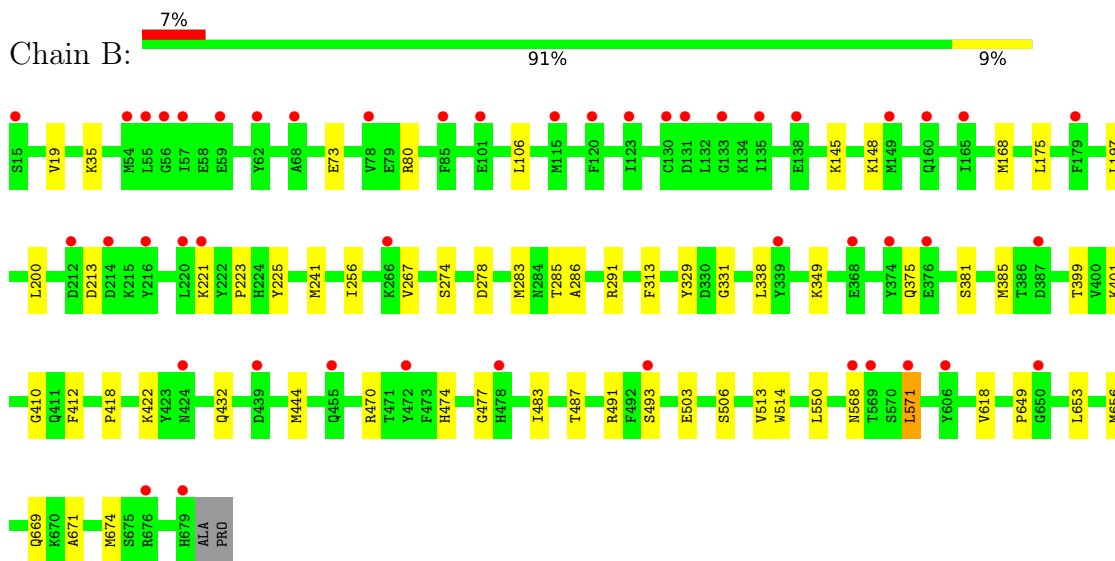
3 Residue-property plots

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.

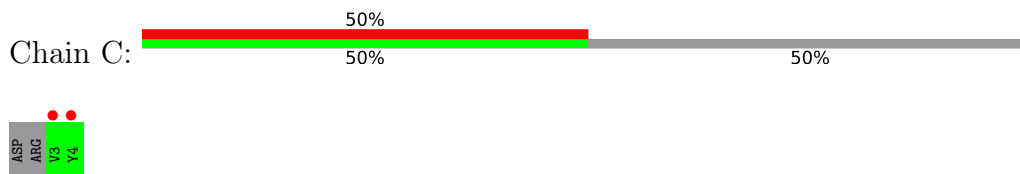
- Molecule 1: Neurolysin, mitochondrial



- Molecule 1: Neurolysin, mitochondrial



- Molecule 2: Angiotensin-1 peptide N-terminal end



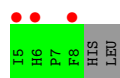
- Molecule 2: Angiotensin-1 peptide N-terminal end



- Molecule 3: Angiotensin-1 peptide C-terminal end



- Molecule 3: Angiotensin-1 peptide C-terminal end



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	101.08Å 60.58Å 147.76Å 90.00° 106.57° 90.00°	Depositor
Resolution (Å)	66.99 – 2.49 66.99 – 2.49	Depositor EDS
% Data completeness (in resolution range)	55.3 (66.99-2.49) 50.9 (66.99-2.49)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 2.48Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.237 , 0.286 (Not available) , 0.264	Depositor DCC
R_{free} test set	1631 reflections (2.69%)	wwPDB-VP
Wilson B-factor (Å ²)	35.3	Xtriage
Anisotropy	0.250	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 10.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	10838	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 14.54% 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](#)

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	0.07	0/5469	0.21	0/7377
1	B	0.27	2/5469 (0.0%)	0.23	1/7377 (0.0%)
2	C	0.23	0/19	0.45	0/25
2	E	0.31	0/19	0.32	0/25
3	D	0.22	0/38	0.46	0/51
3	F	0.10	0/38	0.24	0/51
All	All	0.19	2/11052 (0.0%)	0.22	1/14906 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	432	GLN	CD-NE2	-14.70	1.02	1.33
1	B	432	GLN	CD-OE1	-11.91	1.00	1.23

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	432	GLN	OE1-CD-NE2	-6.58	116.02	122.60

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	5359	0	5314	38	0
1	B	5359	0	5314	32	0
2	C	19	0	17	0	0
2	E	19	0	17	0	0
3	D	36	0	32	2	0
3	F	36	0	32	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	2	0	0	0	0
5	B	6	0	0	0	0
All	All	10838	0	10726	71	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 3.

All (71) 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)
3:D:5[A]:ILE:HG13	3:D:6[A]:HIS:H	1.50	0.77
1:A:148:LYS:HD3	1:A:283:MET:HE1	1.76	0.67
1:A:192:PHE:HE2	1:A:241:MET:HE2	1.61	0.64
1:B:80:ARG:HG3	1:B:106:LEU:HD13	1.81	0.62
1:A:285:THR:HB	1:A:656:MET:HE2	1.81	0.62
1:A:80:ARG:NH1	1:A:110:ASP:OD2	2.33	0.62
1:B:148:LYS:HD3	1:B:283:MET:HE1	1.82	0.61
1:B:197:LEU:HB3	1:B:200:LEU:HD12	1.82	0.61
1:A:74:VAL:HG22	1:A:490:ALA:HB2	1.82	0.61
1:A:221:LYS:HG3	1:A:223:PRO:HD2	1.84	0.59
1:B:286:ALA:HA	1:B:291:ARG:HH21	1.68	0.58
1:A:487:THR:OG1	1:A:493:SER:OG	2.23	0.57
1:B:285:THR:HB	1:B:656:MET:HE2	1.86	0.56
1:A:223:PRO:HG2	1:A:418:PRO:HG3	1.87	0.55
1:A:190:LEU:HD22	1:A:240:ARG:HH21	1.70	0.55
1:B:221:LYS:HG3	1:B:223:PRO:HD2	1.89	0.54
1:A:425:HIS:O	1:A:452:ASN:ND2	2.40	0.54
1:B:329:TYR:CZ	1:B:331:GLY:HA2	2.43	0.54
1:B:649:PRO:HB3	1:B:653:LEU:HD13	1.90	0.54
1:B:474:HIS:HE1	1:B:503:GLU:OE1	1.88	0.52
1:B:213:ASP:OD1	1:B:213:ASP:N	2.39	0.52
1:B:381:SER:HB3	1:B:401:LYS:HB2	1.93	0.51
1:B:671:ALA:HA	1:B:674:MET:HE2	1.93	0.50
1:A:568:ASN:HB2	1:A:571:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:487:THR:OG1	1:B:493:SER:OG	2.29	0.50
1:A:410:GLY:HA2	1:A:444:MET:HG2	1.93	0.50
1:A:447:ALA:HB2	1:A:482:GLN:HG2	1.94	0.50
1:A:378:LEU:HB3	1:A:643:ARG:HD3	1.95	0.49
1:A:516:VAL:HG22	1:A:541:VAL:HG21	1.95	0.49
1:A:115:MET:HA	1:A:155:LEU:HD21	1.95	0.49
1:A:329:TYR:CZ	1:A:331:GLY:HA2	2.48	0.49
1:A:342:MET:HE3	1:A:547:ASN:HB3	1.95	0.48
1:A:211:THR:HG22	1:A:217:LYS:HE3	1.95	0.47
1:A:418:PRO:HA	1:A:422:LYS:HD3	1.96	0.47
1:B:175:LEU:HB3	1:B:256:ILE:HG23	1.96	0.47
1:B:418:PRO:HA	1:B:422:LYS:HD3	1.97	0.47
1:B:477:GLY:HA3	1:B:506:SER:HA	1.97	0.47
1:B:73:GLU:OE2	1:B:491:ARG:NH2	2.44	0.47
1:A:46:LYS:HG3	1:A:113:MET:HE1	1.97	0.46
1:A:338:LEU:HD11	1:A:550:LEU:HD13	1.98	0.46
1:A:477:GLY:HA3	1:A:506:SER:HA	1.98	0.46
1:B:410:GLY:HA2	1:B:444:MET:HG2	1.97	0.46
1:B:223:PRO:HG2	1:B:418:PRO:HG3	1.98	0.46
1:A:596:PRO:HA	1:A:599:PHE:HB2	1.98	0.46
1:B:618:VAL:HG11	1:B:669:GLN:HG2	1.97	0.45
1:A:474:HIS:CE1	3:D:5[A]:ILE:HD13	2.52	0.44
1:A:87:GLN:HA	1:A:96:ARG:HG2	2.00	0.44
1:B:568:ASN:HB2	1:B:571:LEU:HD12	1.99	0.44
1:A:423:TYR:CZ	1:A:425:HIS:HB3	2.53	0.44
1:A:474:HIS:HE1	1:A:503:GLU:OE1	2.02	0.43
1:B:168:MET:HE3	1:B:267:VAL:HG12	2.01	0.43
1:B:412:PHE:HB3	1:B:483:ILE:HD11	2.00	0.43
1:A:197:LEU:HB3	1:A:200:LEU:HD12	2.00	0.42
1:A:286:ALA:HA	1:A:291:ARG:HH21	1.85	0.42
1:B:410:GLY:HA2	1:B:444:MET:CG	2.50	0.42
1:B:470:ARG:HD3	1:B:514:TRP:CZ2	2.54	0.42
1:A:410:GLY:HA2	1:A:444:MET:CG	2.50	0.42
1:B:385:MET:HE2	1:B:399:THR:OG1	2.19	0.42
1:A:437:LEU:HD11	1:A:443:MET:HB2	2.01	0.42
1:B:313:PHE:CZ	1:B:349:LYS:HE3	2.55	0.42
1:A:607:ASP:OD1	1:A:607:ASP:N	2.52	0.42
1:A:371:LEU:HB3	1:A:382:PHE:HD2	1.84	0.42
1:A:374:TYR:CZ	1:A:509:LEU:HD13	2.55	0.41
1:B:225:TYR:HD1	1:B:241:MET:HE3	1.85	0.41
1:A:426:ALA:HB1	1:A:451:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HD11	1:B:550:LEU:HD13	2.03	0.41
1:A:612:GLY:HA2	1:A:615:TRP:HB3	2.03	0.41
1:A:80:ARG:HG2	1:A:84:ASP:OD2	2.21	0.41
1:B:35:LYS:HE2	1:B:35:LYS:HB3	1.90	0.41
1:B:274:SER:OG	1:B:278:ASP:OD2	2.39	0.41
1:B:145:LYS:HD3	1:B:145:LYS:HA	1.94	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	572/667 (86%)	552 (96%)	20 (4%)	0	100	100
1	B	663/667 (99%)	637 (96%)	26 (4%)	0	100	100
3	D	2/6 (33%)	2 (100%)	0	0	100	100
3	F	2/6 (33%)	2 (100%)	0	0	100	100
All	All	1239/1346 (92%)	1193 (96%)	46 (4%)	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	590/591 (100%)	588 (100%)	2 (0%)	86	94
1	B	590/591 (100%)	586 (99%)	4 (1%)	76	89
2	C	2/4 (50%)	2 (100%)	0	100	100
2	E	2/4 (50%)	2 (100%)	0	100	100
3	D	4/6 (67%)	4 (100%)	0	100	100
3	F	4/6 (67%)	4 (100%)	0	100	100
All	All	1192/1202 (99%)	1186 (100%)	6 (0%)	81	92

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

Mol	Chain	Res	Type
1	A	513	VAL
1	A	571	LEU
1	B	19	VAL
1	B	375	GLN
1	B	513	VAL
1	B	571	LEU

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	88	HIS
1	A	301	GLN
1	B	88	HIS
1	B	182	ASN
1	B	482	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

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

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	665/667 (99%)	0.74	38 (5%) 29 26	22, 40, 62, 98	0
1	B	665/667 (99%)	0.79	47 (7%) 22 19	18, 41, 68, 101	0
2	C	2/4 (50%)	6.60	2 (100%) 0 0	70, 70, 70, 72	0
2	E	2/4 (50%)	4.88	2 (100%) 0 0	78, 78, 78, 80	0
3	D	4/6 (66%)	3.38	4 (100%) 0 0	62, 64, 68, 70	0
3	F	4/6 (66%)	2.45	3 (75%) 0 0	41, 44, 53, 55	0
All	All	1342/1354 (99%)	0.79	96 (7%) 21 19	18, 41, 67, 101	0

All (96) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	3[A]	VAL	7.8
2	E	3[A]	VAL	5.6
2	C	4[A]	TYR	5.4
1	B	374	TYR	5.3
1	B	679	HIS	5.3
3	D	5[A]	ILE	4.8
1	A	679	HIS	4.2
2	E	4[A]	TYR	4.2
1	B	15	SER	3.9
1	A	374	TYR	3.8
1	B	123	ILE	3.7
1	A	650	GLY	3.5
1	A	570	SER	3.4
1	B	216	TYR	3.4
1	B	387	ASP	3.3
1	B	568	ASN	3.3
3	D	6[A]	HIS	3.3
3	F	6[A]	HIS	3.2
1	B	138	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	606	TYR	3.1
3	D	7[A]	PRO	3.1
1	A	212	ASP	3.0
1	B	212	ASP	3.0
1	B	493	SER	3.0
1	A	192	PHE	3.0
1	B	115	MET	3.0
1	A	674	MET	2.9
3	F	5[A]	ILE	2.9
1	B	57	ILE	2.8
1	B	569	THR	2.8
1	B	571	LEU	2.8
1	A	606	TYR	2.7
1	B	62	TYR	2.7
1	A	291	ARG	2.7
1	B	68	ALA	2.7
1	B	676	ARG	2.6
1	B	650	GLY	2.6
1	A	424	ASN	2.6
1	B	78	VAL	2.6
1	B	130	CYS	2.6
1	A	188	THR	2.6
1	B	133	GLY	2.5
1	B	439	ASP	2.5
1	A	123	ILE	2.5
1	B	120	PHE	2.5
1	B	179	PHE	2.5
1	A	214	ASP	2.5
1	A	220	LEU	2.5
1	A	569	THR	2.5
1	A	217	LYS	2.4
1	A	221	LYS	2.4
1	A	193	SER	2.4
1	B	478	HIS	2.4
1	A	494	GLY	2.4
1	A	602	LEU	2.4
1	B	455	GLN	2.4
1	B	54	MET	2.4
1	B	149	MET	2.4
1	B	221	LYS	2.4
1	A	676	ARG	2.3
1	A	571	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	135	ILE	2.3
1	A	58	GLU	2.3
1	A	631	GLU	2.3
1	B	101	GLU	2.3
1	B	85	PHE	2.3
3	D	8	PHE	2.3
1	B	160	GLN	2.3
1	B	214	ASP	2.2
1	B	339	TYR	2.2
1	A	216	TYR	2.2
1	B	55	LEU	2.2
1	B	220	LEU	2.2
1	A	218	ILE	2.2
1	B	165	ILE	2.2
1	A	295	PHE	2.2
1	A	568	ASN	2.1
1	B	376	GLU	2.1
1	B	266	LYS	2.1
3	F	8	PHE	2.1
1	A	219	THR	2.1
1	B	472	TYR	2.1
1	A	495	THR	2.1
1	B	131	ASP	2.1
1	A	149	MET	2.1
1	B	56	GLY	2.1
1	B	59	GLU	2.1
1	A	189	PHE	2.0
1	A	464	LEU	2.0
1	B	424	ASN	2.0
1	A	430	GLY	2.0
1	B	368	GLU	2.0
1	A	438	PRO	2.0
1	A	669	GLN	2.0
1	A	473	PHE	2.0
1	A	659	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 [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
4	ZN	A	1001	1/1	0.82	0.22	136,136,136,136	0
4	ZN	B	1001	1/1	0.88	0.26	149,149,149,149	0

6.5 Other polymers [i](#)

There are no such residues in this entry.