



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 03:50 PM UTC

PDB ID : 2JXJ / pdb_00002jxj
Title : NMR structure of the ARID domain from the histone H3K4 demethylase RBP2
Authors : Tu, S.; Yuan, C.; Tsai, M.
Deposited on : 2007-11-20

This is a Full wwPDB NMR 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/NMRValidationReportHelp>

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
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

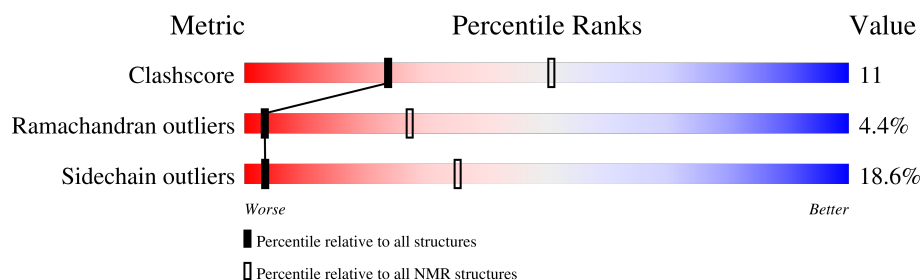
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	96	61% 32% 6%

2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:86-A:175 (90)	0.73	1

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20
2	3, 16

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1571 atoms, of which 805 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Histone demethylase JARID1A.

Mol	Chain	Residues	Atoms						Trace
1	A	96	Total	C	H	N	O	S	0
			1571	501	805	129	135	1	

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	80	GLY	-	expression tag	UNP P29375
A	81	PRO	-	expression tag	UNP P29375
A	82	LEU	-	expression tag	UNP P29375
A	83	GLY	-	expression tag	UNP P29375
A	84	SER	-	expression tag	UNP P29375

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Histone demethylase JARID1A

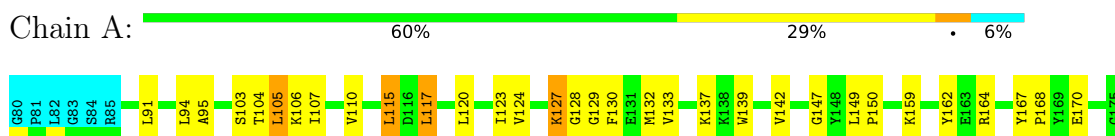


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

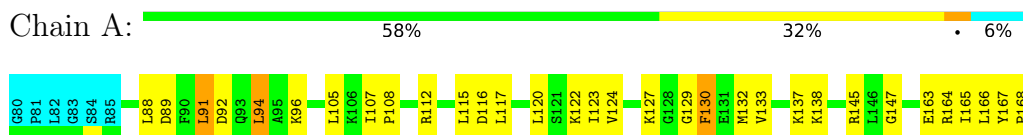
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Histone demethylase JARID1A



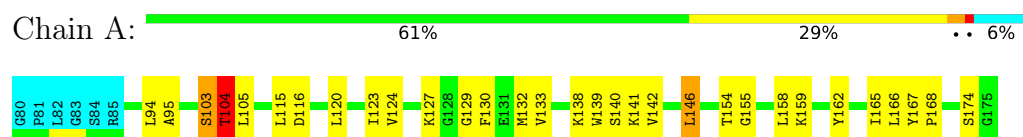
4.2.2 Score per residue for model 2

- Molecule 1: Histone demethylase JARID1A



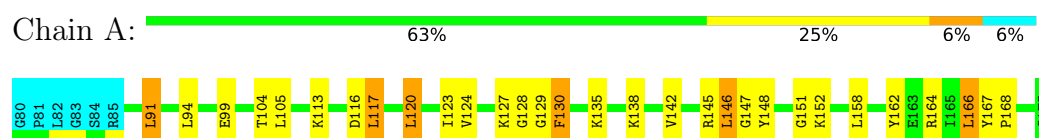
4.2.3 Score per residue for model 3

- Molecule 1: Histone demethylase JARID1A



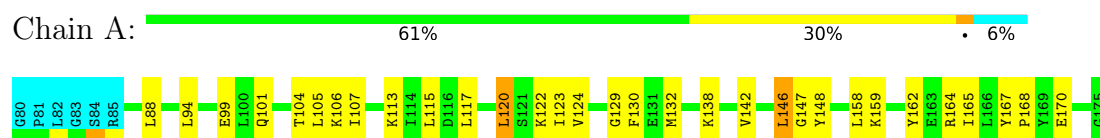
4.2.4 Score per residue for model 4

- Molecule 1: Histone demethylase JARID1A



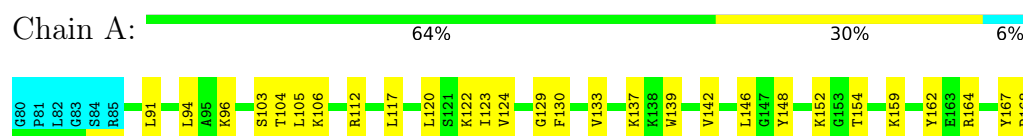
4.2.5 Score per residue for model 5

- Molecule 1: Histone demethylase JARID1A



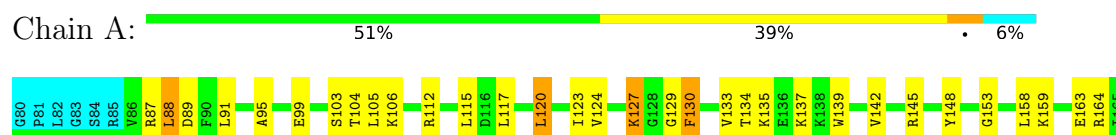
4.2.6 Score per residue for model 6

- Molecule 1: Histone demethylase JARID1A



4.2.7 Score per residue for model 7

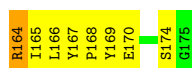
- Molecule 1: Histone demethylase JARID1A





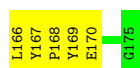
4.2.8 Score per residue for model 8

- Molecule 1: Histone demethylase JARID1A



4.2.9 Score per residue for model 9

- Molecule 1: Histone demethylase JARID1A



4.2.10 Score per residue for model 10

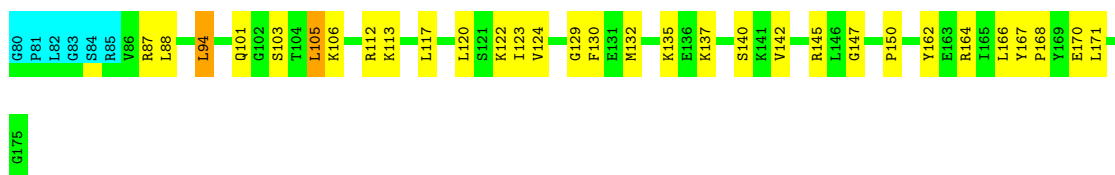
- Molecule 1: Histone demethylase JARID1A



4.2.11 Score per residue for model 11

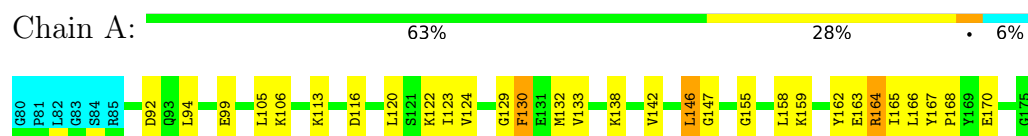
- Molecule 1: Histone demethylase JARID1A





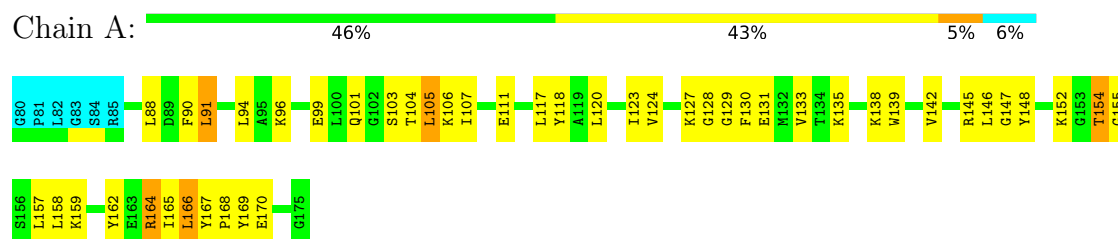
4.2.12 Score per residue for model 12

- Molecule 1: Histone demethylase JARID1A



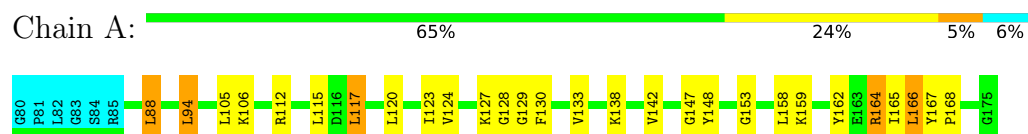
4.2.13 Score per residue for model 13

- Molecule 1: Histone demethylase JARID1A



4.2.14 Score per residue for model 14

- Molecule 1: Histone demethylase JARID1A



4.2.15 Score per residue for model 15

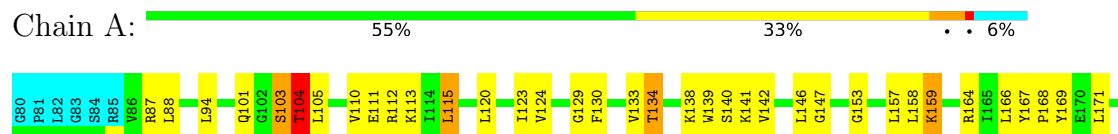
- Molecule 1: Histone demethylase JARID1A



G175

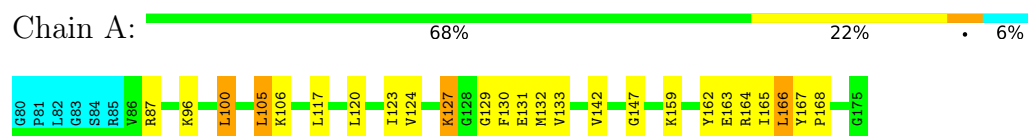
4.2.16 Score per residue for model 16

- Molecule 1: Histone demethylase JARID1A

S174
G175

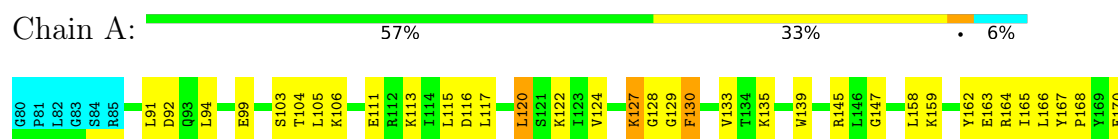
4.2.17 Score per residue for model 17

- Molecule 1: Histone demethylase JARID1A



4.2.18 Score per residue for model 18

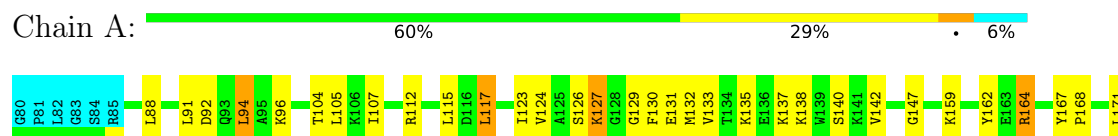
- Molecule 1: Histone demethylase JARID1A



G175

4.2.19 Score per residue for model 19

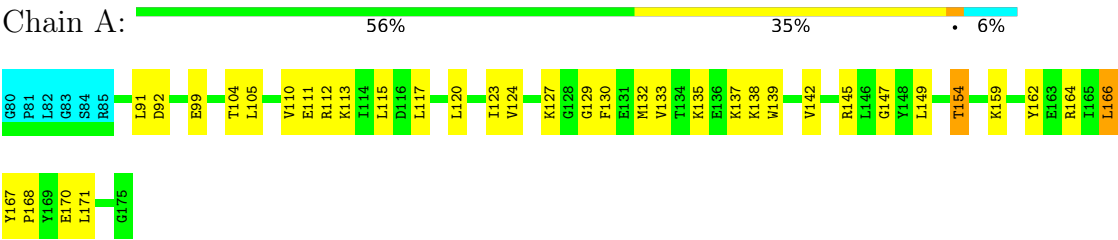
- Molecule 1: Histone demethylase JARID1A





4.2.20 Score per residue for model 20

- Molecule 1: Histone demethylase JARID1A



5 Refinement protocol and experimental data overview ⓘ

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
CNS	structure calculation	
CNS	refinement	1.1

No chemical shift data was provided.

6 Model quality

6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	726	761	760	16±3
All	All	14520	15220	15200	323

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 11.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:123:ILE:HG21	1:A:142:VAL:HG13	0.96	1.35	17	14
1:A:95:ALA:HB2	1:A:105:LEU:HD22	0.96	1.36	9	3
1:A:124:VAL:HG21	1:A:162:TYR:CE2	0.85	2.07	15	8
1:A:94:LEU:HD22	1:A:105:LEU:HD13	0.83	1.51	19	3
1:A:117:LEU:HD23	1:A:166:LEU:HD22	0.80	1.51	4	1
1:A:94:LEU:HD12	1:A:169:TYR:CD2	0.80	2.11	16	5
1:A:95:ALA:HB2	1:A:105:LEU:HD23	0.79	1.55	7	2
1:A:120:LEU:O	1:A:124:VAL:HG23	0.76	1.80	1	17
1:A:94:LEU:HD22	1:A:105:LEU:HD12	0.74	1.58	2	3
1:A:124:VAL:HG21	1:A:162:TYR:CZ	0.72	2.19	18	8
1:A:107:ILE:CD1	1:A:117:LEU:HD21	0.72	2.15	5	1
1:A:146:LEU:HD22	1:A:148:TYR:CE2	0.72	2.19	15	1
1:A:105:LEU:HD13	1:A:165:ILE:HG21	0.71	1.62	3	1
1:A:162:TYR:CD1	1:A:166:LEU:HD11	0.71	2.21	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:117:LEU:HA	1:A:166:LEU:HD11	0.69	1.65	18	3
1:A:115:LEU:HD23	1:A:116:ASP:O	0.68	1.87	3	4
1:A:124:VAL:HG12	1:A:129:GLY:O	0.68	1.89	17	20
1:A:123:ILE:CG2	1:A:142:VAL:HG13	0.68	2.17	16	10
1:A:94:LEU:HD21	1:A:165:ILE:HG22	0.66	1.66	3	4
1:A:133:VAL:HG12	1:A:139:TRP:CD1	0.66	2.25	8	8
1:A:117:LEU:HD23	1:A:166:LEU:CD2	0.66	2.21	4	1
1:A:162:TYR:CE1	1:A:166:LEU:HD11	0.65	2.26	11	2
1:A:127:LYS:HB2	1:A:133:VAL:HG22	0.64	1.68	13	9
1:A:88:LEU:HD12	1:A:89:ASP:N	0.63	2.08	2	1
1:A:148:TYR:CE2	1:A:158:LEU:HD21	0.63	2.29	8	5
1:A:117:LEU:HB3	1:A:166:LEU:HD21	0.63	1.71	20	2
1:A:120:LEU:HA	1:A:123:ILE:HD12	0.62	1.70	12	9
1:A:91:LEU:HD21	1:A:117:LEU:HD22	0.62	1.70	1	1
1:A:91:LEU:HG	1:A:117:LEU:HD11	0.62	1.69	19	1
1:A:166:LEU:HD12	1:A:167:TYR:N	0.61	2.11	11	1
1:A:138:LYS:O	1:A:142:VAL:HG23	0.61	1.95	5	9
1:A:94:LEU:HD22	1:A:105:LEU:CD1	0.61	2.26	11	2
1:A:105:LEU:HD12	1:A:165:ILE:HG21	0.60	1.71	9	1
1:A:94:LEU:HD21	1:A:165:ILE:O	0.60	1.97	14	2
1:A:127:LYS:CB	1:A:133:VAL:HG22	0.59	2.27	1	8
1:A:94:LEU:HD13	1:A:169:TYR:CG	0.59	2.33	6	2
1:A:117:LEU:HD22	1:A:166:LEU:HD22	0.59	1.74	10	1
1:A:148:TYR:CZ	1:A:158:LEU:HD21	0.58	2.33	13	3
1:A:105:LEU:CD1	1:A:165:ILE:HG21	0.57	2.28	3	1
1:A:115:LEU:HD11	1:A:158:LEU:HD22	0.57	1.77	18	1
1:A:107:ILE:HG23	1:A:107:ILE:O	0.57	1.98	19	1
1:A:95:ALA:CB	1:A:105:LEU:HD22	0.56	2.22	9	1
1:A:105:LEU:HD13	1:A:105:LEU:C	0.56	2.26	12	1
1:A:168:PRO:HA	1:A:171:LEU:HD12	0.55	1.76	19	4
1:A:117:LEU:CA	1:A:166:LEU:HD11	0.54	2.31	13	3
1:A:120:LEU:HD12	1:A:162:TYR:CD1	0.54	2.37	4	2
1:A:162:TYR:CE1	1:A:166:LEU:HD23	0.54	2.37	12	1
1:A:133:VAL:HG13	1:A:138:LYS:HB2	0.54	1.80	15	2
1:A:117:LEU:HD22	1:A:166:LEU:HD23	0.54	1.78	11	1
1:A:107:ILE:HD11	1:A:117:LEU:HD21	0.54	1.79	5	1
1:A:116:ASP:HB3	1:A:146:LEU:HD21	0.53	1.80	3	1
1:A:110:VAL:HG21	1:A:115:LEU:HD12	0.52	1.82	15	2
1:A:94:LEU:CD2	1:A:105:LEU:HD12	0.52	2.31	2	1
1:A:154:THR:HG23	1:A:157:LEU:HD12	0.52	1.81	13	1
1:A:120:LEU:HD23	1:A:162:TYR:CD1	0.52	2.40	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:LEU:HD21	1:A:117:LEU:CD2	0.52	2.33	1	1
1:A:167:TYR:N	1:A:168:PRO:HD2	0.52	2.20	20	16
1:A:155:GLY:HA2	1:A:158:LEU:HD12	0.52	1.81	3	3
1:A:117:LEU:HD23	1:A:166:LEU:HG	0.51	1.83	7	1
1:A:88:LEU:HA	1:A:91:LEU:HD12	0.51	1.82	7	1
1:A:162:TYR:HA	1:A:166:LEU:HD21	0.51	1.83	10	1
1:A:94:LEU:HD11	1:A:166:LEU:HA	0.51	1.83	10	2
1:A:91:LEU:HD21	1:A:117:LEU:HD11	0.50	1.82	4	1
1:A:94:LEU:HD23	1:A:105:LEU:HD11	0.50	1.82	16	3
1:A:88:LEU:HD12	1:A:88:LEU:C	0.50	2.31	2	1
1:A:103:SER:C	1:A:104:THR:HG23	0.50	2.31	16	2
1:A:110:VAL:CG2	1:A:115:LEU:HD23	0.50	2.36	1	1
1:A:127:LYS:HD2	1:A:133:VAL:HG22	0.50	1.82	10	1
1:A:116:ASP:H	1:A:146:LEU:HD21	0.50	1.67	4	1
1:A:130:PHE:CE2	1:A:139:TRP:CZ2	0.50	3.00	18	1
1:A:162:TYR:CE2	1:A:167:TYR:CD1	0.49	3.00	19	4
1:A:148:TYR:CD2	1:A:154:THR:HG21	0.49	2.42	6	1
1:A:94:LEU:CD2	1:A:105:LEU:HD13	0.49	2.37	5	1
1:A:94:LEU:HD13	1:A:169:TYR:CD2	0.49	2.43	6	1
1:A:166:LEU:C	1:A:166:LEU:HD13	0.48	2.32	3	1
1:A:105:LEU:HD21	1:A:165:ILE:CG2	0.48	2.38	8	1
1:A:167:TYR:N	1:A:168:PRO:CD	0.48	2.76	18	4
1:A:120:LEU:CD1	1:A:142:VAL:HG11	0.48	2.38	12	2
1:A:115:LEU:HD11	1:A:158:LEU:CD2	0.47	2.39	16	1
1:A:91:LEU:HD11	1:A:117:LEU:CD1	0.47	2.39	18	1
1:A:120:LEU:HD12	1:A:142:VAL:CG1	0.47	2.39	10	2
1:A:94:LEU:HG	1:A:105:LEU:HD12	0.47	1.86	18	2
1:A:95:ALA:HB2	1:A:105:LEU:CD2	0.47	2.35	7	2
1:A:120:LEU:HD12	1:A:142:VAL:HG11	0.47	1.86	10	3
1:A:115:LEU:HD12	1:A:146:LEU:HG	0.47	1.86	5	1
1:A:171:LEU:HD22	1:A:175:GLY:O	0.47	2.10	7	1
1:A:96:LYS:O	1:A:100:LEU:HD12	0.47	2.10	17	2
1:A:120:LEU:HD23	1:A:162:TYR:HD1	0.47	1.70	10	1
1:A:165:ILE:O	1:A:165:ILE:HG22	0.47	2.09	18	1
1:A:94:LEU:CD1	1:A:169:TYR:CG	0.46	2.98	6	1
1:A:110:VAL:HG21	1:A:115:LEU:HD23	0.46	1.87	1	1
1:A:117:LEU:CD2	1:A:166:LEU:HD22	0.46	2.34	4	1
1:A:162:TYR:CD1	1:A:166:LEU:HD13	0.46	2.46	15	1
1:A:110:VAL:HG12	1:A:111:GLU:HG2	0.46	1.86	16	1
1:A:123:ILE:HD13	1:A:142:VAL:HG13	0.46	1.85	3	1
1:A:107:ILE:HD12	1:A:117:LEU:HD21	0.46	1.87	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:LEU:HB3	1:A:105:LEU:HD22	0.46	1.86	5	1
1:A:124:VAL:HG13	1:A:133:VAL:HG21	0.45	1.86	10	2
1:A:130:PHE:CD2	1:A:167:TYR:CZ	0.45	3.04	10	2
1:A:88:LEU:O	1:A:88:LEU:HD13	0.45	2.10	14	1
1:A:148:TYR:OH	1:A:158:LEU:HD21	0.45	2.11	14	1
1:A:162:TYR:CE1	1:A:166:LEU:CD1	0.45	3.00	11	1
1:A:120:LEU:HD12	1:A:162:TYR:CE1	0.45	2.47	18	2
1:A:134:THR:HG23	1:A:159:LYS:HE3	0.45	1.88	16	1
1:A:169:TYR:CE1	1:A:173:GLN:NE2	0.44	2.85	7	1
1:A:91:LEU:HD11	1:A:105:LEU:HD21	0.44	1.87	2	1
1:A:115:LEU:HD23	1:A:116:ASP:N	0.44	2.28	18	1
1:A:111:GLU:OE2	1:A:149:LEU:HD12	0.44	2.12	9	1
1:A:116:ASP:HB2	1:A:146:LEU:HD21	0.44	1.90	12	1
1:A:162:TYR:CD1	1:A:166:LEU:CD1	0.43	3.01	4	1
1:A:120:LEU:O	1:A:120:LEU:HD13	0.43	2.13	4	1
1:A:94:LEU:HD12	1:A:169:TYR:CG	0.43	2.48	15	1
1:A:91:LEU:CD2	1:A:117:LEU:HD13	0.42	2.44	7	2
1:A:148:TYR:HE2	1:A:158:LEU:HD21	0.42	1.73	5	1
1:A:130:PHE:CE2	1:A:139:TRP:CH2	0.42	3.07	18	1
1:A:153:GLY:O	1:A:157:LEU:HD23	0.42	2.14	8	1
1:A:88:LEU:CD1	1:A:89:ASP:N	0.42	2.82	2	1
1:A:90:PHE:CD2	1:A:118:TYR:CD2	0.42	3.07	13	1
1:A:91:LEU:HD21	1:A:117:LEU:CD1	0.41	2.45	4	1
1:A:123:ILE:HG21	1:A:142:VAL:CG1	0.41	2.32	8	1
1:A:123:ILE:HG22	1:A:127:LYS:HE2	0.41	1.92	10	1
1:A:127:LYS:HB3	1:A:133:VAL:HG22	0.41	1.91	17	1
1:A:105:LEU:CD2	1:A:165:ILE:CG2	0.41	2.98	17	1
1:A:105:LEU:HD21	1:A:107:ILE:HD11	0.41	1.91	2	1
1:A:91:LEU:HD23	1:A:105:LEU:HD21	0.41	1.93	13	1
1:A:115:LEU:HD21	1:A:120:LEU:HD22	0.41	1.92	8	1
1:A:117:LEU:HB3	1:A:166:LEU:HD11	0.41	1.93	14	1
1:A:94:LEU:CD1	1:A:169:TYR:CD2	0.41	3.04	15	1
1:A:130:PHE:CD1	1:A:130:PHE:C	0.40	2.99	4	1
1:A:130:PHE:CZ	1:A:163:GLU:OE1	0.40	2.74	7	1
1:A:98:TRP:CD1	1:A:105:LEU:HD23	0.40	2.52	8	1
1:A:130:PHE:CE2	1:A:163:GLU:OE1	0.40	2.74	2	1
1:A:157:LEU:N	1:A:157:LEU:HD22	0.40	2.31	16	1
1:A:94:LEU:CG	1:A:105:LEU:HD12	0.40	2.45	18	1
1:A:94:LEU:CD1	1:A:166:LEU:HD23	0.40	2.47	2	1
1:A:115:LEU:HD12	1:A:148:TYR:OH	0.40	2.16	8	1

6.3 Torsion angles

6.3.1 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 PDB entries followed by that with respect to all NMR entries. 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	89/96 (93%)	77±2 (87±2%)	8±2 (9±2%)	4±1 (4±1%)	3	27
All	All	1780/1920 (93%)	1548 (87%)	153 (9%)	79 (4%)	3	27

All 12 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	130	PHE	20
1	A	147	GLY	16
1	A	104	THR	11
1	A	164	ARG	11
1	A	128	GLY	6
1	A	153	GLY	4
1	A	174	SER	3
1	A	150	PRO	2
1	A	112	ARG	2
1	A	154	THR	2
1	A	108	PRO	1
1	A	151	GLY	1

6.3.2 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 PDB entries followed by that with respect to all NMR entries. 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	78/82 (95%)	64±4 (81±5%)	14±4 (19±5%)	3	35
All	All	1560/1640 (95%)	1270 (81%)	290 (19%)	3	35

All 45 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	159	LYS	16
1	A	106	LYS	13
1	A	164	ARG	13
1	A	103	SER	12
1	A	170	GLU	12
1	A	127	LYS	11
1	A	132	MET	11
1	A	145	ARG	10
1	A	113	LYS	10
1	A	88	LEU	10
1	A	105	LEU	9
1	A	112	ARG	9
1	A	146	LEU	9
1	A	99	GLU	9
1	A	137	LYS	8
1	A	92	ASP	8
1	A	94	LEU	7
1	A	122	LYS	7
1	A	135	LYS	7
1	A	166	LEU	7
1	A	96	LYS	6
1	A	87	ARG	6
1	A	115	LEU	5
1	A	117	LEU	5
1	A	91	LEU	5
1	A	104	THR	5
1	A	141	LYS	5
1	A	154	THR	5
1	A	120	LEU	5
1	A	138	LYS	4
1	A	140	SER	4
1	A	101	GLN	4
1	A	89	ASP	4
1	A	134	THR	4
1	A	131	GLU	4
1	A	149	LEU	3
1	A	152	LYS	3
1	A	163	GLU	3
1	A	111	GLU	3
1	A	107	ILE	2
1	A	165	ILE	2
1	A	100	LEU	2
1	A	174	SER	1

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Mol	Chain	Res	Type	Models (Total)
1	A	136	GLU	1
1	A	126	SER	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided