



Full wwPDB NMR Structure Validation Report ⓘ

Jun 11, 2019 – 12:11 PM EDT

PDB ID : 6A4C
Title : Solution structure of MXAN_0049
Authors : Chen, C.; Feng, Y.
Deposited on : 2018-06-19

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

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : 2.3.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.3.2

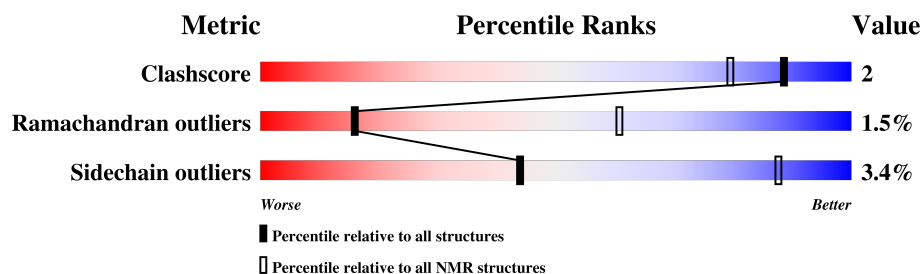
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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	136327	12091
Ramachandran outliers	132723	10835
Sidechain outliers	132532	10811

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	215	

2 Ensemble composition and analysis ⓘ

This entry contains 20 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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:22-A:69, A:75-A:215 (189)	0.48	13

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

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

NmrClust was unable to cluster the ensemble.

Error message: Inconsistent models

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3356 atoms, of which 1656 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Uncharacterized protein MXAN_0049.

Mol	Chain	Residues	Atoms						Trace
1	A	215	Total	C	H	N	O	S	0
			3356	1076	1656	294	322	8	

There are 22 discrepancies between the modelled and reference sequences:

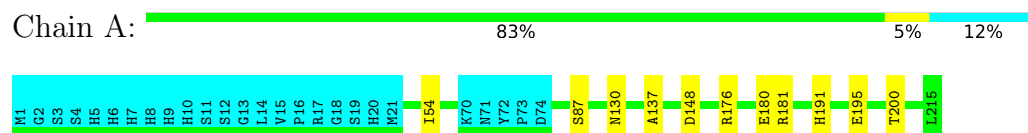
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP Q1DG91
A	2	GLY	-	expression tag	UNP Q1DG91
A	3	SER	-	expression tag	UNP Q1DG91
A	4	SER	-	expression tag	UNP Q1DG91
A	5	HIS	-	expression tag	UNP Q1DG91
A	6	HIS	-	expression tag	UNP Q1DG91
A	7	HIS	-	expression tag	UNP Q1DG91
A	8	HIS	-	expression tag	UNP Q1DG91
A	9	HIS	-	expression tag	UNP Q1DG91
A	10	HIS	-	expression tag	UNP Q1DG91
A	11	SER	-	expression tag	UNP Q1DG91
A	12	SER	-	expression tag	UNP Q1DG91
A	13	GLY	-	expression tag	UNP Q1DG91
A	14	LEU	-	expression tag	UNP Q1DG91
A	15	VAL	-	expression tag	UNP Q1DG91
A	16	PRO	-	expression tag	UNP Q1DG91
A	17	ARG	-	expression tag	UNP Q1DG91
A	18	GLY	-	expression tag	UNP Q1DG91
A	19	SER	-	expression tag	UNP Q1DG91
A	20	HIS	-	expression tag	UNP Q1DG91
A	21	MET	-	expression tag	UNP Q1DG91
A	22	VAL	-	expression tag	UNP Q1DG91

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA 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: Uncharacterized protein MXAN_0049

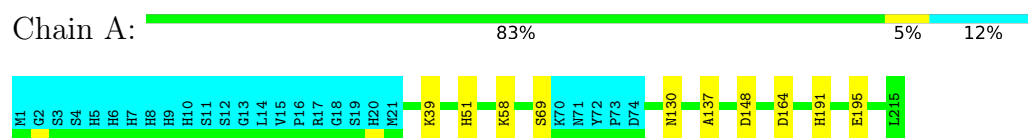


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

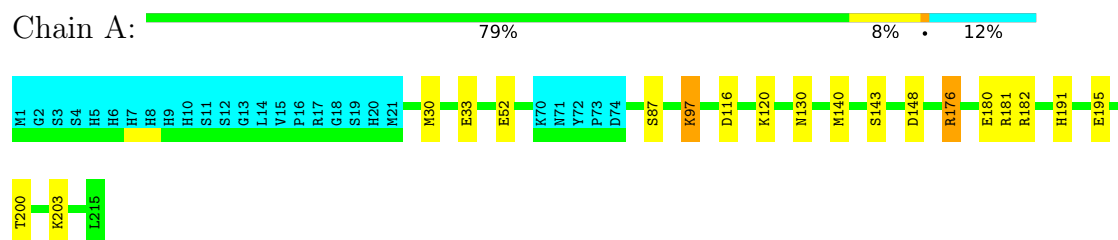
4.2.1 Score per residue for model 1

- Molecule 1: Uncharacterized protein MXAN_0049



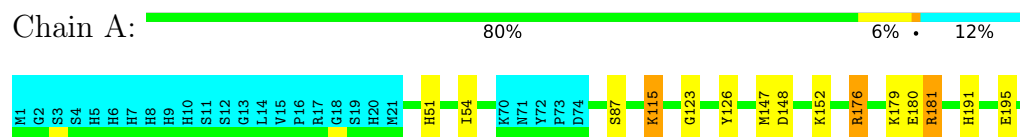
4.2.2 Score per residue for model 2

- Molecule 1: Uncharacterized protein MXAN_0049



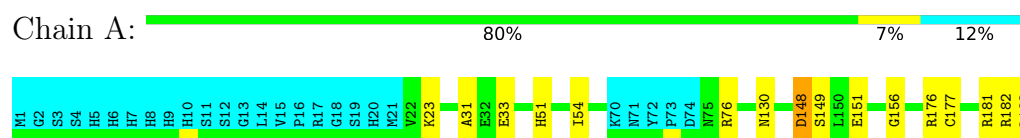
4.2.3 Score per residue for model 3

- Molecule 1: Uncharacterized protein MXAN_0049



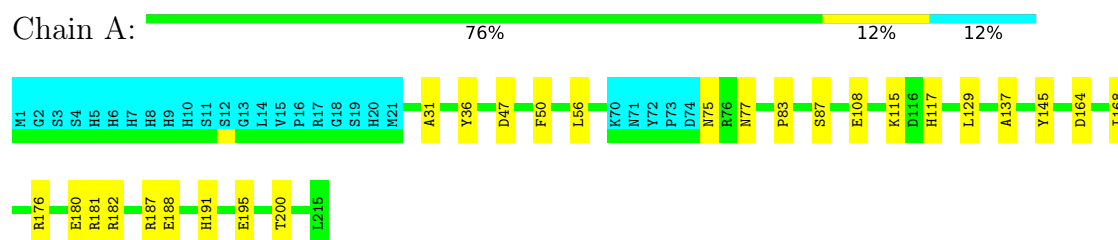
4.2.4 Score per residue for model 4

- Molecule 1: Uncharacterized protein MXAN_0049



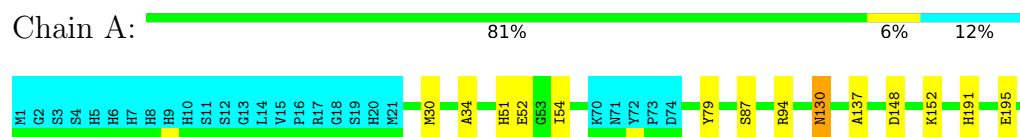
4.2.5 Score per residue for model 5

- Molecule 1: Uncharacterized protein MXAN_0049



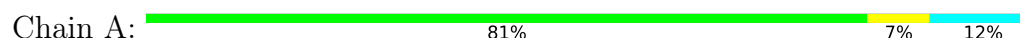
4.2.6 Score per residue for model 6

- Molecule 1: Uncharacterized protein MXAN_0049



4.2.7 Score per residue for model 7

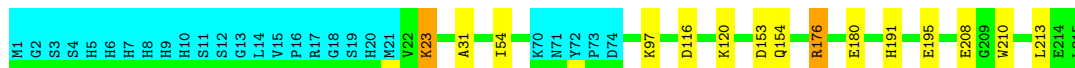
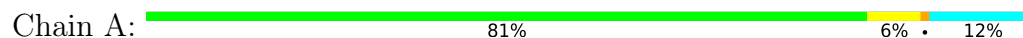
- Molecule 1: Uncharacterized protein MXAN_0049





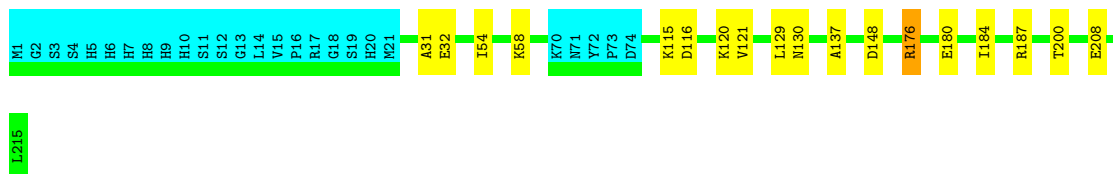
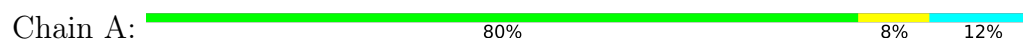
4.2.8 Score per residue for model 8

- Molecule 1: Uncharacterized protein MXAN_0049



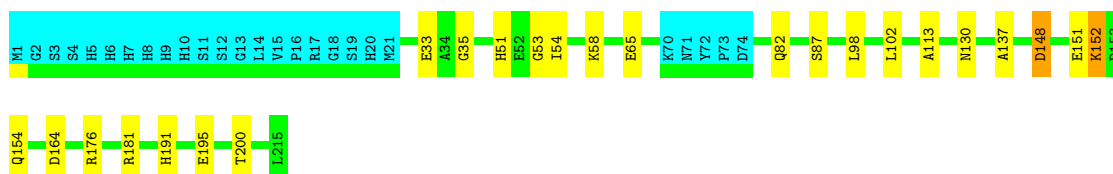
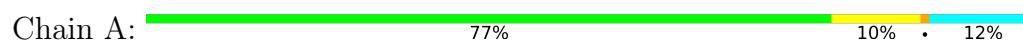
4.2.9 Score per residue for model 9

- Molecule 1: Uncharacterized protein MXAN_0049



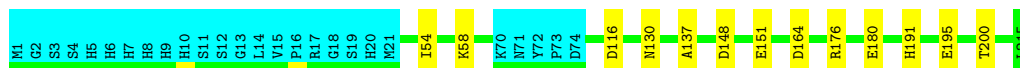
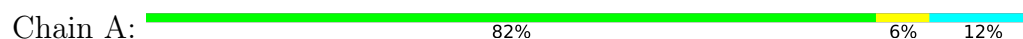
4.2.10 Score per residue for model 10

- Molecule 1: Uncharacterized protein MXAN_0049



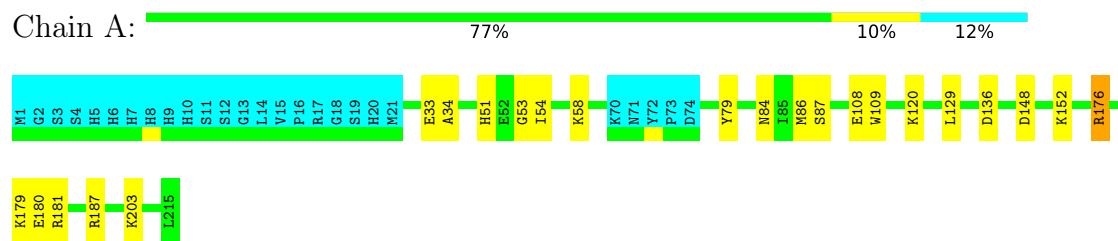
4.2.11 Score per residue for model 11

- Molecule 1: Uncharacterized protein MXAN_0049



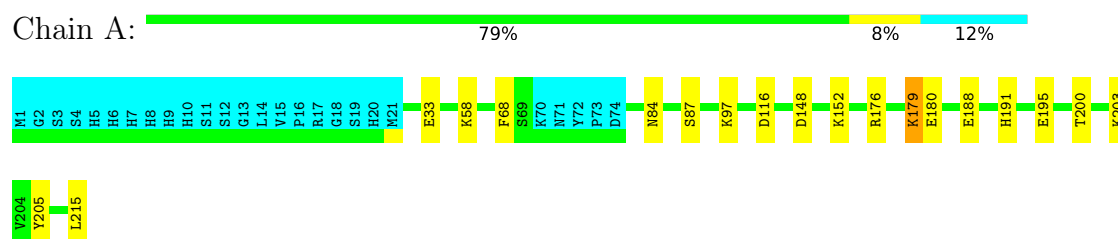
4.2.12 Score per residue for model 12

- Molecule 1: Uncharacterized protein MXAN_0049



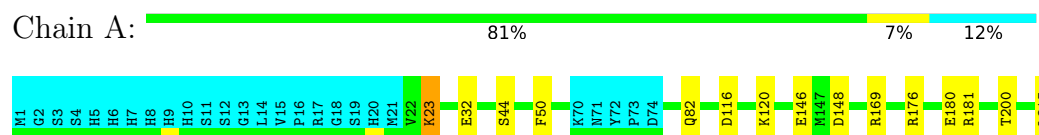
4.2.13 Score per residue for model 13 (medoid)

- Molecule 1: Uncharacterized protein MXAN_0049



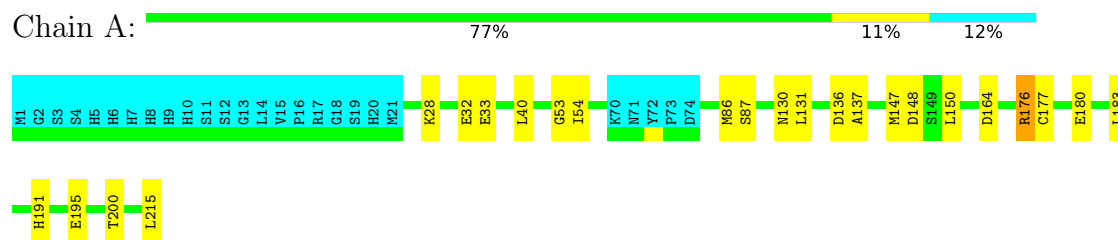
4.2.14 Score per residue for model 14

- Molecule 1: Uncharacterized protein MXAN_0049



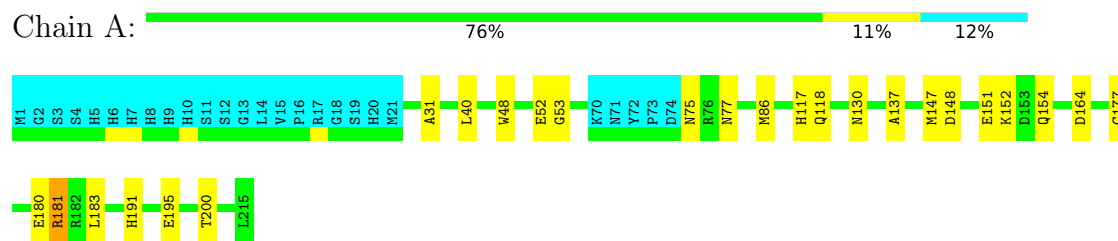
4.2.15 Score per residue for model 15

- Molecule 1: Uncharacterized protein MXAN_0049



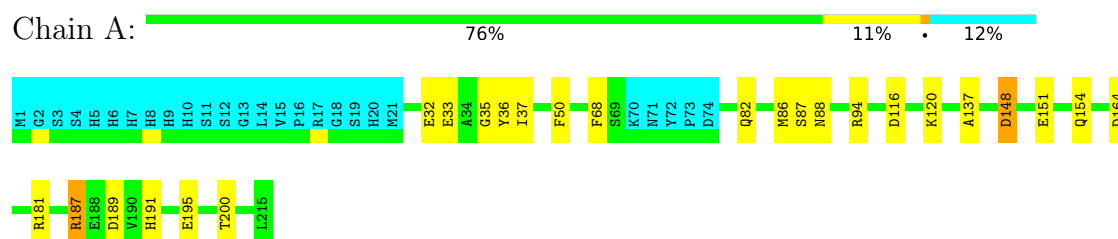
4.2.16 Score per residue for model 16

- Molecule 1: Uncharacterized protein MXAN_0049



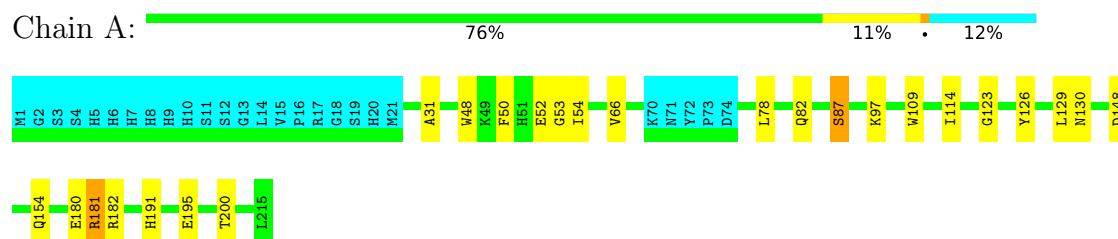
4.2.17 Score per residue for model 17

- Molecule 1: Uncharacterized protein MXAN_0049



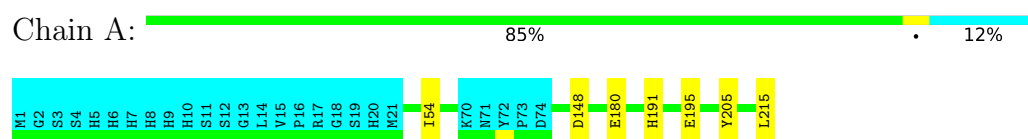
4.2.18 Score per residue for model 18

- Molecule 1: Uncharacterized protein MXAN_0049



4.2.19 Score per residue for model 19

- Molecule 1: Uncharacterized protein MXAN_0049



4.2.20 Score per residue for model 20

● Molecule 1: Uncharacterized protein MXAN_0049

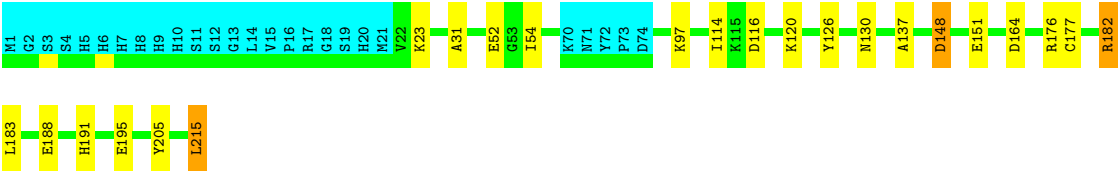
Chain A:

77%

9%

•

12%



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	
CNS	structure calculation	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	6a4c_cs.cif
Number of chemical shift lists	1
Total number of shifts	2441
Number of shifts mapped to atoms	2441
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

No validations of the models with respect to experimental NMR restraints is performed at this time.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	1.0±0.9
All	All	0	20

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	181	ARG	Sidechain	6
1	A	187	ARG	Sidechain	4
1	A	182	ARG	Sidechain	3
1	A	176	ARG	Sidechain	3
1	A	94	ARG	Sidechain	3
1	A	169	ARG	Sidechain	1

6.2 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 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	1495	1467	1464	6±3
All	All	29900	29340	29280	118

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:176:ARG:CZ	1:A:184:ILE:HG23	0.60	2.27	9	1
1:A:116:ASP:OD2	1:A:120:LYS:HG2	0.55	2.02	9	4
1:A:154:GLN:NE2	1:A:181:ARG:HD3	0.55	2.17	10	1
1:A:108:GLU:O	1:A:129:LEU:HA	0.54	2.02	5	2
1:A:115:LYS:N	1:A:115:LYS:HE3	0.53	2.18	3	1
1:A:51:HIS:CE1	1:A:130:ASN:HA	0.53	2.38	1	3
1:A:32:GLU:HA	1:A:36:TYR:CD1	0.52	2.39	17	1
1:A:191:HIS:O	1:A:195:GLU:HG2	0.52	2.05	3	12
1:A:148:ASP:HA	1:A:151:GLU:O	0.51	2.05	10	4
1:A:131:LEU:HB2	1:A:176:ARG:HD2	0.51	1.81	15	1
1:A:51:HIS:CD2	1:A:176:ARG:HB2	0.51	2.41	12	2
1:A:137:ALA:HB1	1:A:164:ASP:HB2	0.50	1.81	10	3
1:A:48:TRP:O	1:A:181:ARG:HD2	0.50	2.06	18	1
1:A:187:ARG:HD3	1:A:189:ASP:OD1	0.50	2.07	17	1
1:A:78:LEU:HA	1:A:82:GLN:NE2	0.49	2.21	18	1
1:A:149:SER:OG	1:A:156:GLY:HA3	0.49	2.08	4	1
1:A:35:GLY:HA3	1:A:82:GLN:NE2	0.49	2.23	10	2
1:A:136:ASP:OD2	1:A:179:LYS:HE2	0.49	2.08	12	1
1:A:137:ALA:HB1	1:A:164:ASP:O	0.49	2.07	11	6
1:A:40:LEU:HA	1:A:86:MET:SD	0.48	2.48	15	1
1:A:51:HIS:HB3	1:A:176:ARG:CZ	0.48	2.39	3	1
1:A:177:CYS:SG	1:A:183:LEU:HD22	0.48	2.49	20	3
1:A:33:GLU:O	1:A:76:ARG:HB2	0.48	2.08	4	1
1:A:205:TYR:CE1	1:A:215:LEU:HA	0.47	2.44	19	1
1:A:152:LYS:N	1:A:152:LYS:HE2	0.47	2.24	10	1
1:A:30:MET:HB2	1:A:203:LYS:HB2	0.47	1.87	2	1
1:A:191:HIS:O	1:A:195:GLU:HG3	0.47	2.10	19	4
1:A:115:LYS:HG2	1:A:121:VAL:HG22	0.47	1.85	9	1
1:A:97:LYS:HA	1:A:97:LYS:HE2	0.47	1.87	18	3
1:A:97:LYS:HA	1:A:97:LYS:CE	0.47	2.40	2	1
1:A:75:ASN:HB3	1:A:117:HIS:CE1	0.47	2.45	16	2
1:A:205:TYR:CE2	1:A:215:LEU:HA	0.47	2.44	20	2
1:A:50:PHE:HB2	1:A:87:SER:HB3	0.46	1.86	18	1
1:A:34:ALA:HB2	1:A:79:TYR:CD2	0.45	2.47	6	1
1:A:34:ALA:HB2	1:A:79:TYR:CE2	0.45	2.47	12	1
1:A:188:GLU:HA	1:A:191:HIS:CD2	0.45	2.47	13	2
1:A:40:LEU:HG	1:A:86:MET:SD	0.44	2.52	16	2
1:A:50:PHE:CD1	1:A:88:ASN:HB2	0.44	2.48	17	1
1:A:97:LYS:HA	1:A:97:LYS:HE3	0.44	1.89	2	1
1:A:47:ASP:HB3	1:A:181:ARG:NH1	0.44	2.27	5	1
1:A:140:MET:HA	1:A:143:SER:OG	0.44	2.12	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:109:TRP:CH2	1:A:129:LEU:HD12	0.43	2.48	18	1
1:A:66:VAL:O	1:A:114:ILE:HA	0.43	2.14	18	1
1:A:65:GLU:HG2	1:A:113:ALA:HB3	0.43	1.90	10	1
1:A:87:SER:HB2	1:A:181:ARG:HB3	0.43	1.89	2	1
1:A:194:PHE:HB3	1:A:202:PHE:CZ	0.43	2.49	7	1
1:A:179:LYS:HE3	1:A:179:LYS:HA	0.43	1.90	13	1
1:A:116:ASP:OD1	1:A:120:LYS:HG2	0.43	2.13	8	2
1:A:151:GLU:OE2	1:A:154:GLN:HG2	0.43	2.14	16	1
1:A:154:GLN:NE2	1:A:181:ARG:HG2	0.42	2.29	17	1
1:A:123:GLY:HA2	1:A:126:TYR:CD1	0.42	2.50	18	1
1:A:44:SER:HB3	1:A:50:PHE:CZ	0.42	2.50	14	1
1:A:23:LYS:HB2	1:A:208:GLU:OE2	0.42	2.14	8	1
1:A:32:GLU:HA	1:A:36:TYR:CE1	0.42	2.49	17	1
1:A:50:PHE:HB2	1:A:87:SER:OG	0.42	2.15	17	1
1:A:114:ILE:HD13	1:A:126:TYR:HB2	0.42	1.92	20	1
1:A:39:LYS:HB3	1:A:69:SER:OG	0.41	2.15	1	1
1:A:48:TRP:O	1:A:52:GLU:HB2	0.41	2.14	16	1
1:A:203:LYS:HE2	1:A:203:LYS:HA	0.41	1.92	12	1
1:A:51:HIS:NE2	1:A:130:ASN:HA	0.41	2.30	4	2
1:A:147:MET:HB3	1:A:152:LYS:O	0.41	2.15	16	2
1:A:37:ILE:HG12	1:A:68:PHE:CE2	0.41	2.51	17	1
1:A:98:LEU:O	1:A:102:LEU:HD13	0.41	2.15	10	1
1:A:23:LYS:NZ	1:A:23:LYS:HB2	0.41	2.30	14	1
1:A:123:GLY:HA2	1:A:126:TYR:CD2	0.41	2.51	3	1
1:A:68:PHE:CD2	1:A:116:ASP:HA	0.41	2.51	13	1
1:A:109:TRP:CZ3	1:A:129:LEU:HD12	0.41	2.51	12	1
1:A:210:TRP:NE1	1:A:213:LEU:HB2	0.41	2.29	8	1
1:A:180:GLU:HG3	1:A:183:LEU:HB2	0.41	1.92	16	1
1:A:137:ALA:CB	1:A:168:ILE:HG13	0.40	2.46	5	1
1:A:50:PHE:CE2	1:A:86:MET:HB3	0.40	2.52	17	1
1:A:87:SER:HA	1:A:181:ARG:O	0.40	2.16	3	1
1:A:50:PHE:O	1:A:56:LEU:HD11	0.40	2.16	5	1
1:A:177:CYS:SG	1:A:183:LEU:HG	0.40	2.56	4	1
1:A:36:TYR:HA	1:A:83:PRO:O	0.40	2.16	5	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	188/215 (87%)	168±2 (89±1%)	17±2 (9±1%)	3±1 (2±1%)	16	61
All	All	3760/4300 (87%)	3365 (89%)	338 (9%)	57 (2%)	16	61

All 11 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	148	ASP	18
1	A	200	THR	13
1	A	87	SER	7
1	A	31	ALA	7
1	A	53	GLY	5
1	A	137	ALA	2
1	A	136	ASP	1
1	A	180	GLU	1
1	A	86	MET	1
1	A	208	GLU	1
1	A	150	LEU	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	157/180 (87%)	152±2 (97±1%)	5±2 (3±1%)	44	87
All	All	3140/3600 (87%)	3033 (97%)	107 (3%)	44	87

All 33 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	54	ILE	12
1	A	176	ARG	11
1	A	180	GLU	11
1	A	130	ASN	9
1	A	33	GLU	7

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Mol	Chain	Res	Type	Models (Total)
1	A	58	LYS	6
1	A	152	LYS	4
1	A	32	GLU	4
1	A	23	LYS	4
1	A	52	GLU	4
1	A	215	LEU	3
1	A	182	ARG	3
1	A	84	ASN	2
1	A	115	LYS	2
1	A	28	LYS	2
1	A	97	LYS	2
1	A	154	GLN	2
1	A	179	LYS	2
1	A	77	ASN	2
1	A	181	ARG	2
1	A	120	LYS	1
1	A	30	MET	1
1	A	151	GLU	1
1	A	203	LYS	1
1	A	129	LEU	1
1	A	145	TYR	1
1	A	153	ASP	1
1	A	116	ASP	1
1	A	188	GLU	1
1	A	118	GLN	1
1	A	82	GLN	1
1	A	146	GLU	1
1	A	147	MET	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 82% for the entire structure.

7.1 Chemical shift list 1

File name: 6a4c_cs.cif

Chemical shift list name: *assigned_chem_shift_list_0*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	2441
Number of shifts mapped to atoms	2441
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	3

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	199	-0.13 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	182	0.17 ± 0.17	None needed (< 0.5 ppm)
$^{13}\text{C}'$	192	0.05 ± 0.13	None needed (< 0.5 ppm)
^{15}N	182	0.04 ± 0.22	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 2076 atoms were assigned a chemical shift out of a possible 2323. 0 out of 31 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	907/931 (97%)	361/371 (97%)	371/378 (98%)	175/182 (96%)
Sidechain	1031/1194 (86%)	633/697 (91%)	382/446 (86%)	16/51 (31%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	138/198 (70%)	75/104 (72%)	60/85 (71%)	3/9 (33%)
Overall	2076/2323 (89%)	1069/1172 (91%)	813/909 (89%)	194/242 (80%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 82%, i.e. 2179 atoms were assigned a chemical shift out of a possible 2643. 0 out of 33 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	952/1057 (90%)	379/421 (90%)	391/430 (91%)	182/206 (88%)
Sidechain	1087/1324 (82%)	668/778 (86%)	402/490 (82%)	17/56 (30%)
Aromatic	140/262 (53%)	76/136 (56%)	61/103 (59%)	3/23 (13%)
Overall	2179/2643 (82%)	1123/1335 (84%)	854/1023 (83%)	202/285 (71%)

7.1.4 Statistically unusual chemical shifts ⓘ

The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	96	ARG	HG3	-0.96	3.00 – 0.10	-8.7
1	A	135	GLU	HG2	0.80	3.33 – 1.23	-7.0
1	A	92	SER	HA	1.96	6.53 – 2.43	-6.1

7.1.5 Random Coil Index (RCI) plots ⓘ

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition.

Random coil index (RCI) for chain A:

