



Full wwPDB NMR Structure Validation Report ⓘ

Jun 2, 2016 – 06:19 PM EDT

PDB ID : 5FZX
Title : High resolution solution NMR structure of the spider venom peptide U5-scytotoxin-Sth1a
Authors : Loening, N.M.
Deposited on : 2016-03-15

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
<http://wwpdb.org/validation/2016/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
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : rb-20027674
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027674

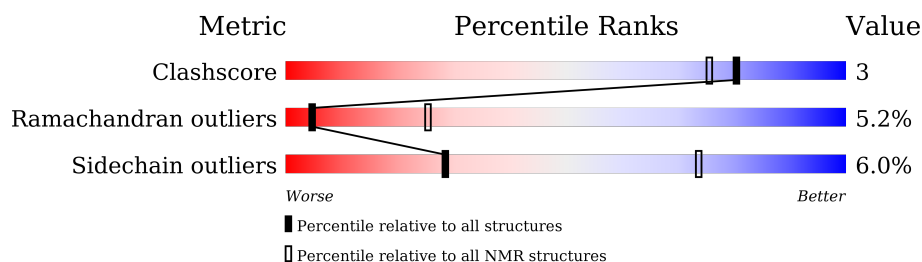
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 56%.

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	114402	11133
Ramachandran outliers	111179	9975
Sidechain outliers	111093	9958

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	36	78% . . 17%

2 Ensemble composition and analysis

This entry contains 20 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 17 as representative.

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:7-A:36 (30)	0.31	3

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 3 clusters and 2 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 505 atoms, of which 236 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called U5-SCYTOTOXIN-STH1A.

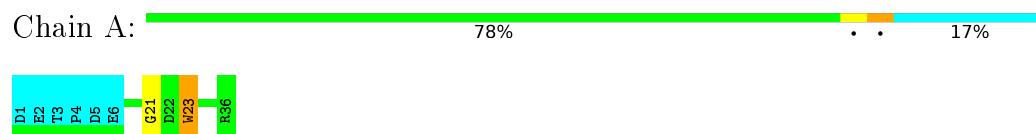
Mol	Chain	Residues	Atoms						Trace
1	A	36	Total	C	H	N	O	S	0
			505	158	236	48	57	6	

4 Residue-property plots

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: U5-SCYTOTOXIN-STH1A

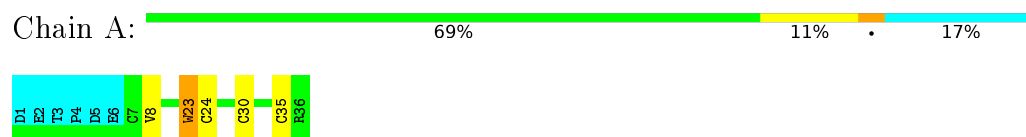


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

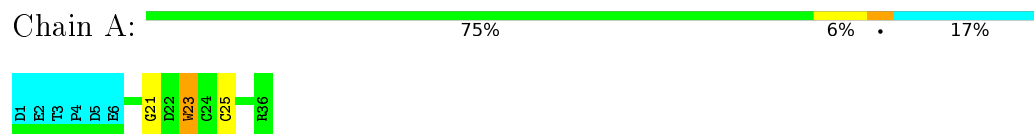
4.2.1 Score per residue for model 1

- Molecule 1: U5-SCYTOTOXIN-STH1A



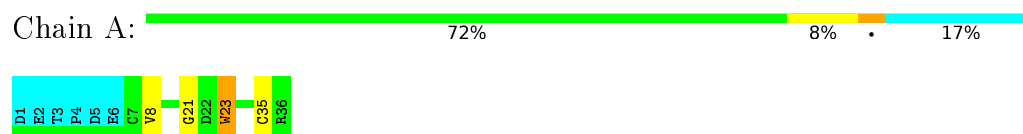
4.2.2 Score per residue for model 2

- Molecule 1: U5-SCYTOTOXIN-STH1A



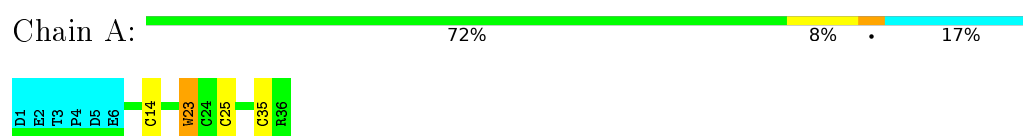
4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: U5-SCYTOTOXIN-STH1A



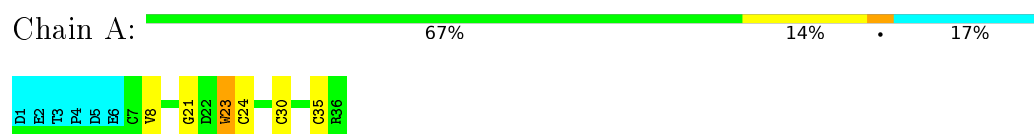
4.2.4 Score per residue for model 4

- Molecule 1: U5-SCYTOTOXIN-STH1A



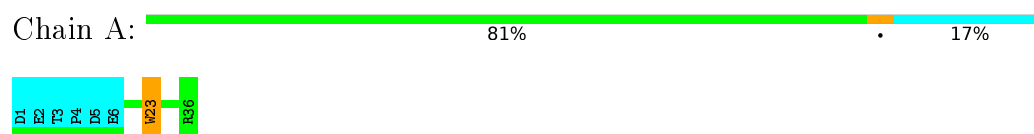
4.2.5 Score per residue for model 5

- Molecule 1: U5-SCYTOTOXIN-STH1A



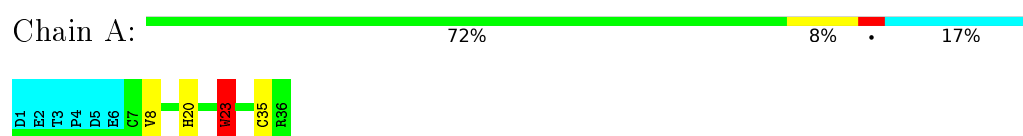
4.2.6 Score per residue for model 6

- Molecule 1: U5-SCYTOTOXIN-STH1A



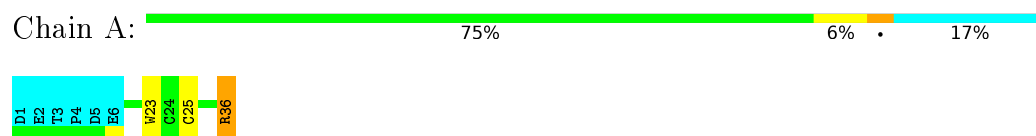
4.2.7 Score per residue for model 7

- Molecule 1: U5-SCYTOTOXIN-STH1A



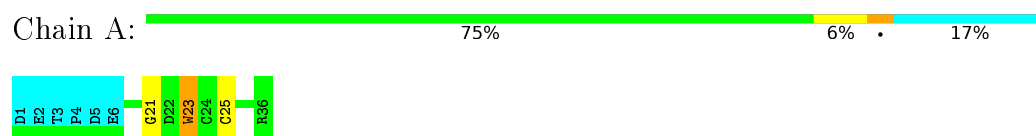
4.2.8 Score per residue for model 8

- Molecule 1: U5-SCYTOTOXIN-STH1A



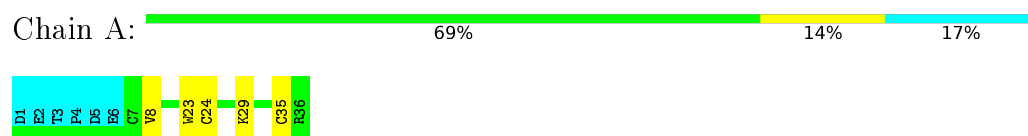
4.2.9 Score per residue for model 9

- Molecule 1: U5-SCYTOTOXIN-STH1A



4.2.10 Score per residue for model 10

- Molecule 1: U5-SCYTOTOXIN-STH1A



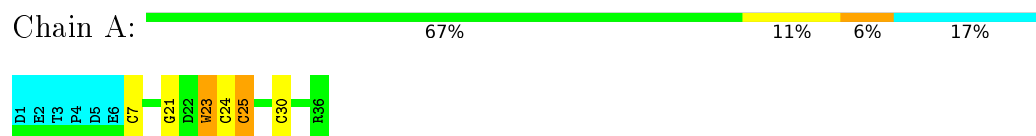
4.2.11 Score per residue for model 11

- Molecule 1: U5-SCYTOTOXIN-STH1A



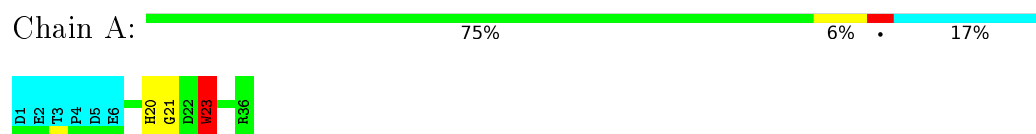
4.2.12 Score per residue for model 12

- Molecule 1: U5-SCYTOTOXIN-STH1A



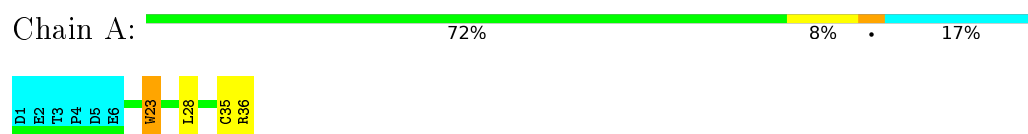
4.2.13 Score per residue for model 13

- Molecule 1: U5-SCYTOTOXIN-STH1A



4.2.14 Score per residue for model 14

- Molecule 1: U5-SCYTOTOXIN-STH1A



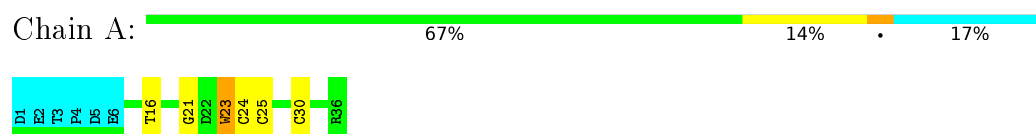
4.2.15 Score per residue for model 15

- Molecule 1: U5-SCYTOTOXIN-STH1A



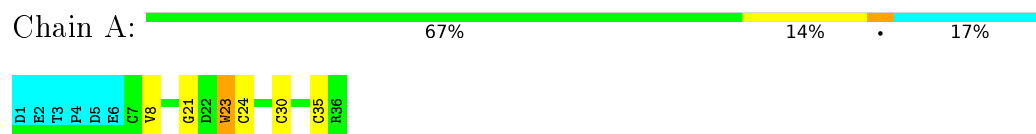
4.2.16 Score per residue for model 16

- Molecule 1: U5-SCYTOTOXIN-STH1A



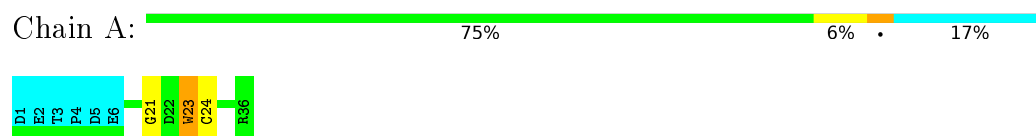
4.2.17 Score per residue for model 17

- Molecule 1: U5-SCYTOTOXIN-STH1A



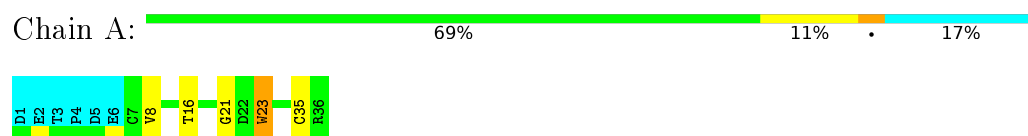
4.2.18 Score per residue for model 18

- Molecule 1: U5-SCYTOTOXIN-STH1A



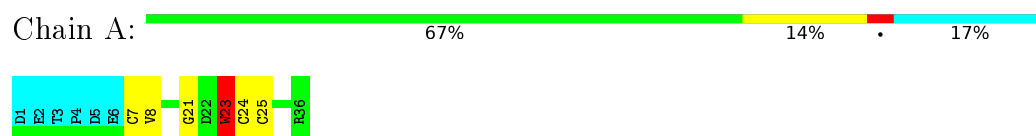
4.2.19 Score per residue for model 19

- Molecule 1: U5-SCYTOTOXIN-STH1A



4.2.20 Score per residue for model 20

- Molecule 1: U5-SCYTOTOXIN-STH1A



5 Refinement protocol and experimental data overview

The models were refined using the following method: *CNS*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *TOTAL ENERGY*.

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

Software name	Classification	Version
CNS	refinement	1.2
TALOS-N	structure solution	4.12
CCPNMR ANALYSIS	structure solution	2.4

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)	5fzx_cs.cif
Number of chemical shift lists	1
Total number of shifts	410
Number of shifts mapped to atoms	252
Number of unparsed shifts	158
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	56%

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.

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 [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	221	200	199	1±1
All	All	4420	4000	3980	28

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:VAL:HG13	1:A:24:CYS:SG	0.61	2.35	11	2
1:A:8:VAL:HB	1:A:24:CYS:SG	0.60	2.36	20	1
1:A:8:VAL:HG13	1:A:35:CYS:SG	0.59	2.38	15	7
1:A:24:CYS:SG	1:A:30:CYS:SG	0.57	3.02	17	6
1:A:7:CYS:HA	1:A:23:TRP:O	0.53	2.03	20	1
1:A:28:LEU:HB3	1:A:35:CYS:SG	0.51	2.45	14	1
1:A:16:THR:O	1:A:19:VAL:HG22	0.51	2.06	11	1
1:A:36:ARG:HD3	1:A:36:ARG:O	0.48	2.08	8	1
1:A:23:TRP:HE3	1:A:24:CYS:SG	0.44	2.34	18	1
1:A:20:HIS:HE1	1:A:23:TRP:CD1	0.44	2.30	7	1
1:A:14:CYS:HB3	1:A:35:CYS:SG	0.43	2.54	4	1
1:A:28:LEU:HD23	1:A:35:CYS:SG	0.43	2.53	14	1
1:A:20:HIS:CE1	1:A:23:TRP:HB2	0.43	2.49	13	1
1:A:7:CYS:HB2	1:A:25:CYS:CA	0.42	2.44	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:PRO:HB3	1:A:23:TRP:CE2	0.40	2.51	11	1
1:A:29:LYS:O	1:A:35:CYS:HA	0.40	2.16	10	1

6.3 Torsion angles [i](#)

6.3.1 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 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	29/36 (81%)	26±1 (91±3%)	1±1 (4±3%)	2±1 (5±2%)	5	25
All	All	580/720 (81%)	527 (91%)	23 (4%)	30 (5%)	5	25

All 2 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	23	TRP	18
1	A	21	GLY	12

6.3.2 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 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	26/32 (81%)	24±1 (94±3%)	2±1 (6±3%)	28	74
All	All	520/640 (81%)	489 (94%)	31 (6%)	28	74

All 5 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	23	TRP	18

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Mol	Chain	Res	Type	Models (Total)
1	A	25	CYS	8
1	A	16	THR	2
1	A	36	ARG	2
1	A	20	HIS	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 carbohydrates 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

The completeness of assignment taking into account all chemical shift lists is 56% for the well-defined parts and 55% for the entire structure.

7.1 Chemical shift list 1

File name: 5fzx_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	410
Number of shifts mapped to atoms	252
Number of unparsed shifts	158
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following errors were found when reading this chemical shift list.

- Chemical shift has been reported more than once. All 158 occurrences are reported below.

Shift ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
12	A	3	THR	HA	4.461	0.008	1
14	A	3	THR	HB	4.076	0.002	1
16	A	3	THR	HG21	1.155	?	1
18	A	3	THR	HG22	1.155	?	1
20	A	3	THR	HG23	1.155	?	1
22	A	3	THR	H	8.329	0.004	1
24	A	3	THR	N	118.324	0.048	1
33	A	5	ASP	HA	4.497	0.013	1
35	A	5	ASP	HB2	2.561	0.002	2
37	A	5	ASP	HB3	2.682	0.011	2
39	A	5	ASP	H	8.345	0.002	1
41	A	5	ASP	N	120.419	0.004	1
43	A	6	GLU	HA	4.358	0.002	1
45	A	6	GLU	HB2	1.865	0.002	2
47	A	6	GLU	HB3	2.014	?	2

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Shift ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
50	A	6	GLU	HG3	2.236	0.001	1
52	A	6	GLU	H	8.156	0.005	1
54	A	6	GLU	N	120.902	0.012	1
56	A	7	CYS	HA	4.674	0.003	1
58	A	7	CYS	HB2	2.923	0.002	1
60	A	7	CYS	HB3	2.923	0.002	1
62	A	7	CYS	H	8.013	0.003	1
64	A	7	CYS	N	118.046	0.045	1
66	A	8	VAL	HA	4.055	0.009	1
68	A	8	VAL	HB	1.834	0.003	1
70	A	8	VAL	HG11	0.984	0.007	2
72	A	8	VAL	HG12	0.984	0.007	2
74	A	8	VAL	HG13	0.984	0.007	2
76	A	8	VAL	HG21	1.003	0.013	2
78	A	8	VAL	HG22	1.003	0.013	2
80	A	8	VAL	HG23	1.003	0.013	2
82	A	8	VAL	H	8.893	0.004	1
84	A	8	VAL	N	122.573	0.037	1
86	A	9	THR	HA	4.041	0.003	1
88	A	9	THR	HB	4.410	0.007	1
93	A	9	THR	H	8.115	0.005	1
95	A	9	THR	N	116.942	0.011	1
108	A	11	GLY	HA2	4.210	0.007	2
110	A	11	GLY	HA3	4.203	0.006	2
112	A	11	GLY	H	9.786	0.004	1
114	A	11	GLY	N	114.255	0.008	1
116	A	12	ASN	HA	4.948	0.001	1
118	A	12	ASN	HB2	2.763	?	2
120	A	12	ASN	HB3	2.834	0.002	2
124	A	12	ASN	H	7.700	0.005	1
127	A	12	ASN	N	118.998	0.043	1
129	A	13	PHE	HA	4.656	0.004	1
131	A	13	PHE	HB2	2.776	0.003	2
133	A	13	PHE	HB3	3.149	?	2
135	A	13	PHE	HD2	7.176	0.001	1
137	A	13	PHE	HE2	7.176	0.001	1
139	A	13	PHE	H	8.213	0.003	1
142	A	13	PHE	N	118.089	0.001	1
144	A	14	CYS	HA	4.453	0.004	1
146	A	14	CYS	HB2	2.896	0.003	2
148	A	14	CYS	HB3	2.912	?	2

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Shift ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
150	A	14	CYS	H	6.958	0.004	1
152	A	14	CYS	N	122.015	0.002	1
154	A	15	ALA	HA	4.066	0.001	1
156	A	15	ALA	HB1	1.235	0.0	1
158	A	15	ALA	HB2	1.235	0.0	1
160	A	15	ALA	HB3	1.235	0.0	1
162	A	16	THR	HA	4.281	0.0	1
164	A	16	THR	HB	4.118	0.006	1
166	A	16	THR	HG21	1.213	0.004	1
168	A	16	THR	HG22	1.213	0.004	1
170	A	16	THR	HG23	1.213	0.004	1
172	A	16	THR	H	8.123	0.003	1
174	A	16	THR	N	115.132	0.005	1
183	A	18	GLU	HA	4.115	?	1
185	A	18	GLU	HB2	1.934	0.003	2
187	A	18	GLU	HB3	1.977	0.007	2
189	A	18	GLU	HG2	2.248	0.009	1
191	A	18	GLU	HG3	2.248	0.009	1
193	A	18	GLU	H	8.841	0.003	1
195	A	18	GLU	N	123.044	0.029	1
197	A	19	VAL	HA	4.100	0.002	1
199	A	19	VAL	HB	1.923	0.001	1
201	A	19	VAL	HG11	0.732	0.004	2
203	A	19	VAL	HG12	0.732	0.004	2
205	A	19	VAL	HG13	0.732	0.004	2
207	A	19	VAL	HG21	0.794	0.003	2
209	A	19	VAL	HG22	0.794	0.003	2
211	A	19	VAL	HG23	0.794	0.003	2
213	A	19	VAL	H	8.043	0.004	1
215	A	19	VAL	N	120.119	0.017	1
217	A	20	HIS	HA	4.587	?	1
219	A	20	HIS	HB2	3.312	0.001	2
221	A	20	HIS	HB3	3.238	0.001	2
225	A	20	HIS	H	8.555	0.003	1
227	A	20	HIS	N	120.579	0.004	1
229	A	21	GLY	HA2	3.919	0.002	2
231	A	21	GLY	HA3	3.999	0.005	2
233	A	21	GLY	H	8.010	0.003	1
235	A	21	GLY	N	110.580	0.015	1
240	A	22	ASP	H	8.258	0.003	1
242	A	22	ASP	N	119.693	?	1

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Shift ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
244	A	23	TRP	HA	4.757	?	1
246	A	23	TRP	HB2	3.297	0.001	2
248	A	23	TRP	HB3	3.440	0.001	2
250	A	23	TRP	HD1	7.215	0.0	1
252	A	23	TRP	HE1	9.872	0.002	1
255	A	23	TRP	H	8.329	0.004	1
260	A	23	TRP	NE1	129.670	?	1
262	A	23	TRP	N	123.781	0.012	1
264	A	24	CYS	HA	4.971	0.001	1
266	A	24	CYS	HB2	2.589	0.003	2
268	A	24	CYS	HB3	2.828	0.008	2
270	A	24	CYS	H	8.843	0.005	1
272	A	24	CYS	N	119.855	0.025	1
274	A	25	CYS	HA	4.426	0.004	1
276	A	25	CYS	HB2	3.172	0.01	2
278	A	25	CYS	HB3	3.150	0.006	2
280	A	25	CYS	H	9.297	0.003	1
282	A	25	CYS	N	120.889	0.006	1
288	A	27	SER	HA	4.423	0.001	1
290	A	27	SER	HB2	3.838	0.009	2
292	A	27	SER	HB3	3.978	0.005	2
294	A	27	SER	H	8.674	0.003	1
296	A	27	SER	N	119.975	0.002	1
298	A	28	LEU	HA	4.298	0.002	1
300	A	28	LEU	HB2	1.139	0.0	2
302	A	28	LEU	HB3	2.061	0.002	2
310	A	28	LEU	HG	1.676	?	1
312	A	28	LEU	H	7.844	0.005	1
314	A	28	LEU	N	122.997	0.064	1
316	A	29	LYS	HA	4.620	0.004	1
318	A	29	LYS	HB2	1.575	?	1
320	A	29	LYS	HB3	1.575	?	1
326	A	29	LYS	HG2	1.279	?	2
328	A	29	LYS	HG3	1.348	?	2
330	A	29	LYS	H	9.227	0.006	1
335	A	29	LYS	N	119.235	0.028	1
343	A	31	VAL	HA	4.137	0.003	1
345	A	31	VAL	HB	1.761	0.003	1
347	A	31	VAL	HG11	0.802	0.003	2
349	A	31	VAL	HG12	0.802	0.003	2
351	A	31	VAL	HG13	0.802	0.003	2

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Shift ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
353	A	31	VAL	HG21	0.844	0.0	2
355	A	31	VAL	HG22	0.844	0.0	2
357	A	31	VAL	HG23	0.844	0.0	2
359	A	31	VAL	H	8.781	0.004	1
361	A	31	VAL	N	133.261	0.001	1
366	A	32	SER	H	9.234	?	1
368	A	32	SER	N	124.893	0.046	1
370	A	33	ASN	HA	4.157	0.007	1
372	A	33	ASN	HB2	2.840	0.001	2
374	A	33	ASN	HB3	3.158	0.006	2
376	A	33	ASN	HD21	7.000	?	1
378	A	33	ASN	HD22	7.816	?	1
380	A	33	ASN	H	8.567	0.006	1
382	A	33	ASN	ND2	110.953	0.002	1
384	A	33	ASN	N	106.971	0.019	1
391	A	35	CYS	HA	4.994	0.004	1
393	A	35	CYS	HB2	2.573	0.001	2
395	A	35	CYS	HB3	2.786	0.003	2
397	A	35	CYS	H	7.751	0.002	1
399	A	35	CYS	N	121.655	0.013	1

7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	—
$^{13}\text{C}_\beta$	0	—	—
$^{13}\text{C}'$	0	—	—
^{15}N	32	-0.96 \pm 1.13	None needed (imprecise)

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 56%, i.e. 186 atoms were assigned a chemical shift out of a possible 333. 0 out of 4 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	86/148 (58%)	58/59 (98%)	0/60 (0%)	28/29 (97%)

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	Total	¹ H	¹³ C	¹⁵ N
Sidechain	88/156 (56%)	83/93 (89%)	0/54 (0%)	5/9 (56%)
Aromatic	12/29 (41%)	11/15 (73%)	0/11 (0%)	1/3 (33%)
Overall	186/333 (56%)	152/167 (91%)	0/125 (0%)	34/41 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 55%, i.e. 219 atoms were assigned a chemical shift out of a possible 396. 0 out of 4 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	100/176 (57%)	68/70 (97%)	0/72 (0%)	32/34 (94%)
Sidechain	107/191 (56%)	102/113 (90%)	0/69 (0%)	5/9 (56%)
Aromatic	12/29 (41%)	11/15 (73%)	0/11 (0%)	1/3 (33%)
Overall	219/396 (55%)	181/198 (91%)	0/152 (0%)	38/46 (83%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

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:

