



Full wwPDB NMR Structure Validation Report ⓘ

Apr 26, 2016 – 01:51 PM BST

PDB ID : 1BR0
Title : THREE DIMENSIONAL STRUCTURE OF THE N-TERMINAL DOMAIN
OF SYNTAXIN 1A
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Deposited on : 1998-08-25

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-20027457
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027457

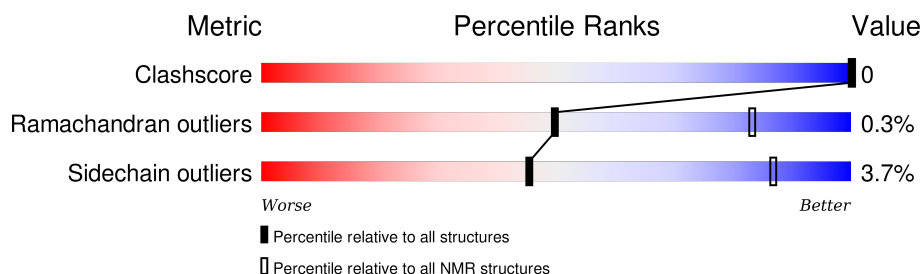
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 88%.

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	120	<div> <div>53%</div> <div>26%</div> <div>22%</div> </div>

2 Ensemble composition and analysis

This entry contains 15 models. Model 10 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:27-A:61, A:72-A:99, A:111-A:141 (94)	0.42	10

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 4 clusters. No single-model clusters were found.

Cluster number	Models
1	4, 5, 6, 7, 11
2	8, 10, 13, 14
3	1, 2, 3
4	9, 12, 15

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1975 atoms, of which 986 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called PROTEIN (SYNTAXIN 1-A).

Mol	Chain	Residues	Atoms							Trace
1	A	120	Total	C	H	N	O	S		0
			1975	607	986	177	202	3		

There is a discrepancy between the modelled and reference sequences:

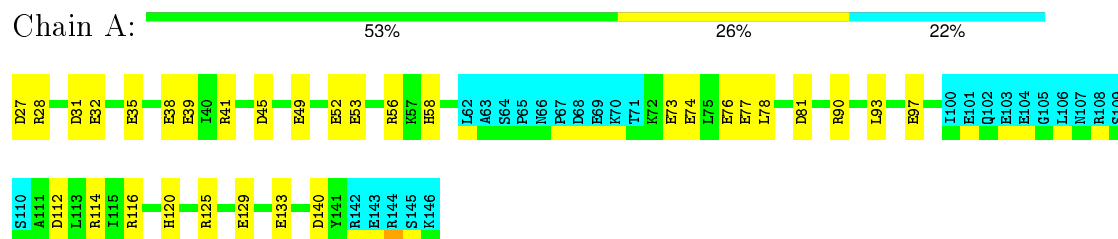
Chain	Residue	Modelled	Actual	Comment	Reference
A	145	SER	CYS	ENGINEERED	UNP P32851

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: PROTEIN (SYNTAXIN 1-A)

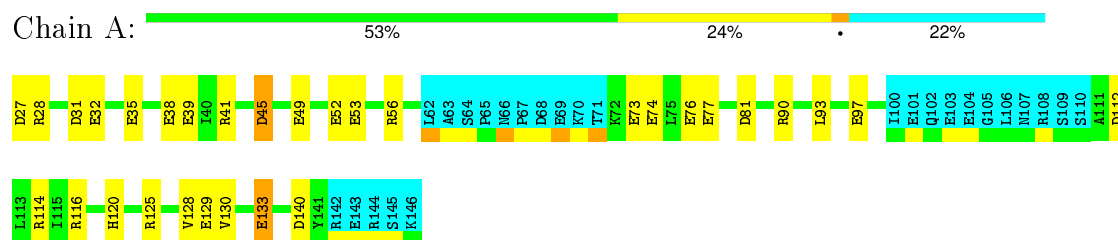


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

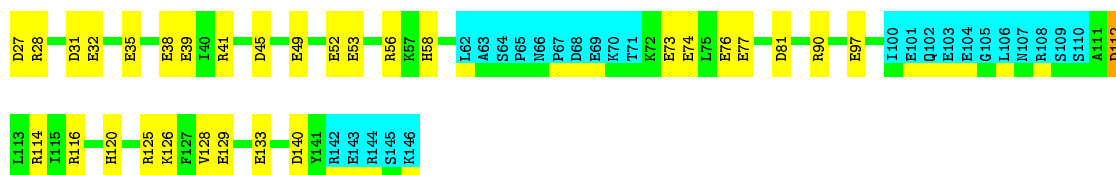
- Molecule 1: PROTEIN (SYNTAXIN 1-A)



4.2.2 Score per residue for model 2

- Molecule 1: PROTEIN (SYNTAXIN 1-A)

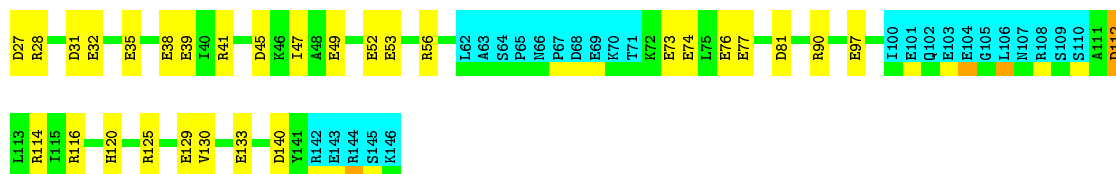




4.2.3 Score per residue for model 3

- Molecule 1: PROTEIN (SYNTAXIN 1-A)

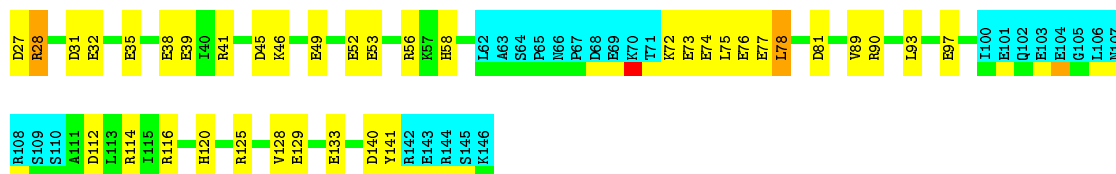
Chain A: 53% 24% 22%



4.2.4 Score per residue for model 4

- Molecule 1: PROTEIN (SYNTAXIN 1-A)

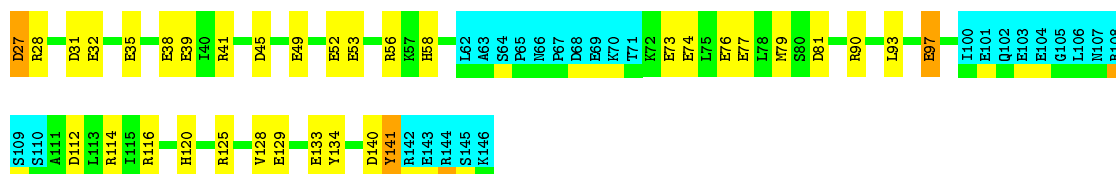
Chain A: 48% 29% 22%



4.2.5 Score per residue for model 5

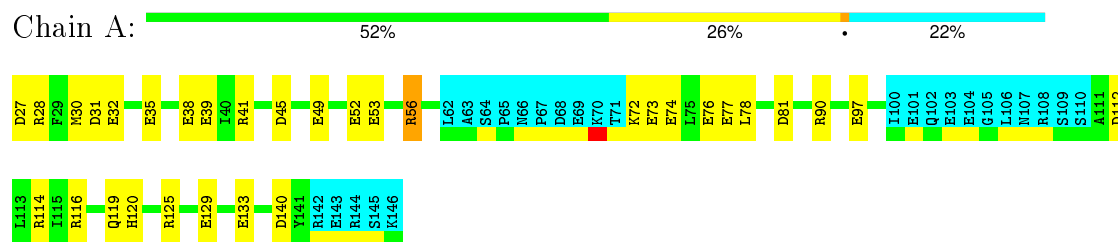
- Molecule 1: PROTEIN (SYNTAXIN 1-A)

Chain A: 50% 26% 22%



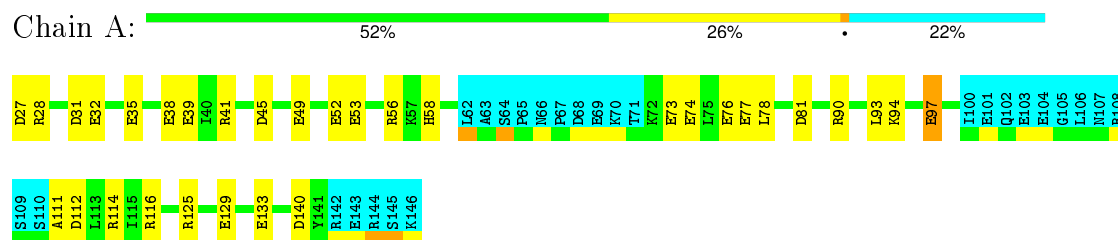
4.2.6 Score per residue for model 6

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



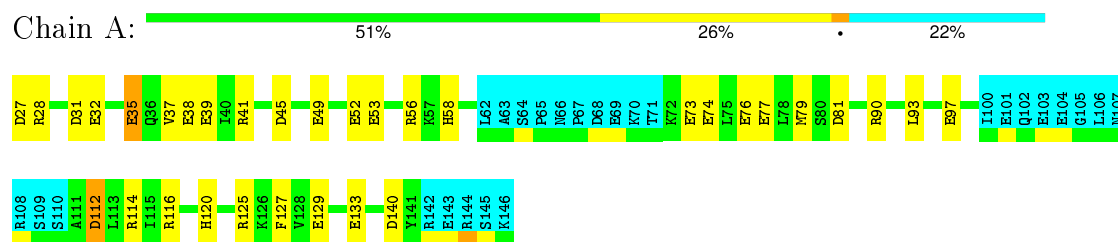
4.2.7 Score per residue for model 7

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



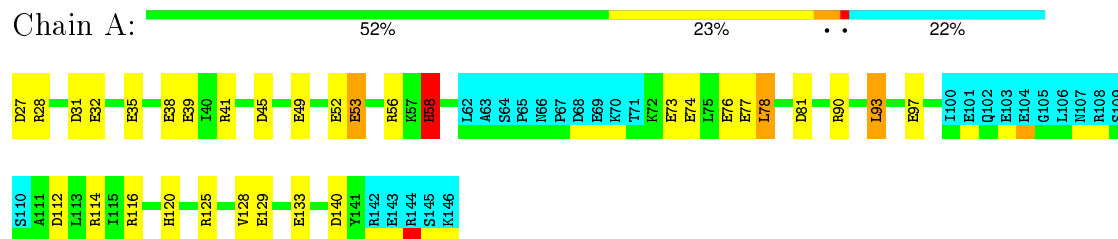
4.2.8 Score per residue for model 8

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



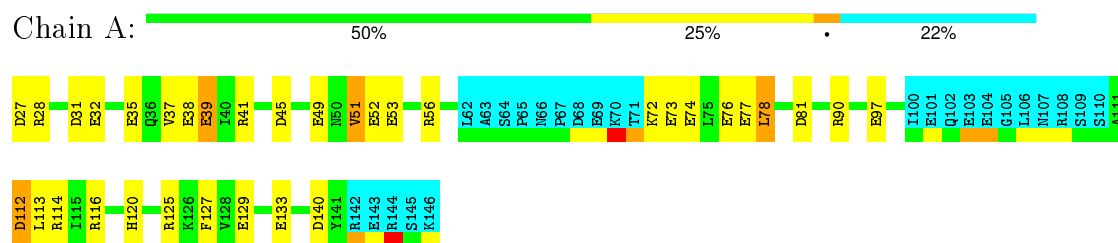
4.2.9 Score per residue for model 9

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



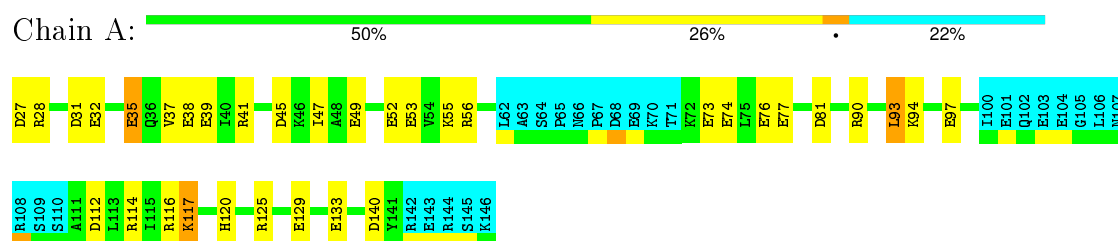
4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



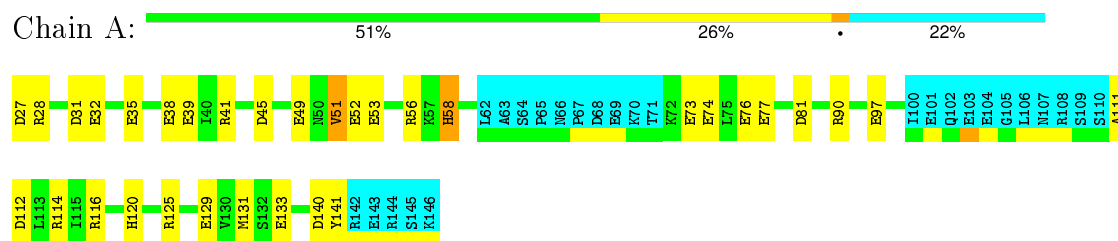
4.2.11 Score per residue for model 11

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



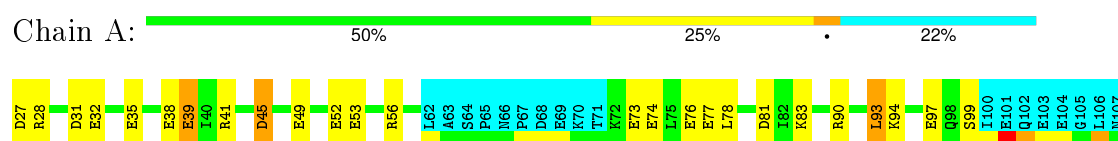
4.2.12 Score per residue for model 12

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



4.2.13 Score per residue for model 13

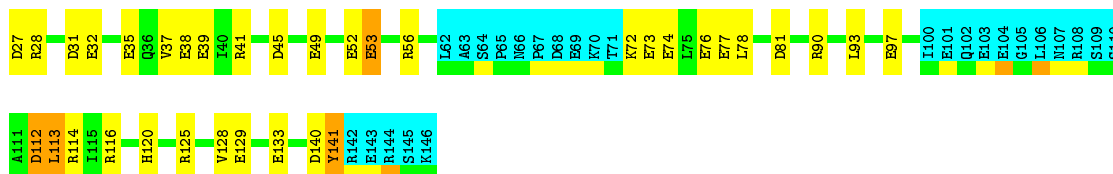
- Molecule 1: PROTEIN (SYNTAXIN 1-A)





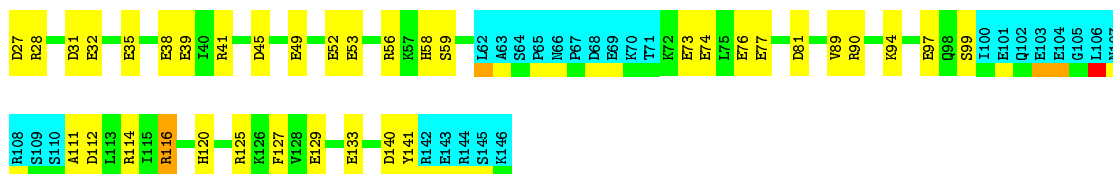
4.2.14 Score per residue for model 14

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



4.2.15 Score per residue for model 15

- Molecule 1: PROTEIN (SYNTAXIN 1-A)



5 Refinement protocol and experimental data overview

The models were refined using the following method: *SIMULATED ANNEALING*.

Of the 200 calculated structures, 15 were deposited, based on the following criterion: *LEAST RESTRAINT VIOLATION*.

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

Software name	Classification	Version
DISCOVER	refinement	
FELIX	structure solution	
NMRVIEW	structure solution	
NMRPIPE	structure solution	
INSIGHTII	structure solution	
DISCOVER	structure solution	
NMTCHITECT	structure solution	

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)	BMRB entry 4198
Number of chemical shift lists	1
Total number of shifts	1504
Number of shifts mapped to atoms	1504
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	88%

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

6 Model quality

6.1 Standard geometry

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 (average) 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	2.02±0.01	20±0/791 (2.5±0.0%)	2.02±0.02	31±2/1054 (3.0±0.1%)
All	All	2.02	301/11865 (2.5%)	2.02	472/15810 (3.0%)

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	0.4±0.5
All	All	0	6

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	53	GLU	CD-OE1	10.92	1.37	1.25	14	11
1	A	97	GLU	CD-OE2	10.86	1.37	1.25	15	7
1	A	74	GLU	CD-OE2	10.84	1.37	1.25	14	9
1	A	74	GLU	CD-OE1	10.83	1.37	1.25	11	6
1	A	38	GLU	CD-OE1	10.81	1.37	1.25	9	8
1	A	77	GLU	CD-OE2	10.81	1.37	1.25	14	6
1	A	39	GLU	CD-OE2	10.81	1.37	1.25	10	10
1	A	77	GLU	CD-OE1	10.81	1.37	1.25	11	9
1	A	133	GLU	CD-OE1	10.81	1.37	1.25	1	7
1	A	32	GLU	CD-OE2	10.80	1.37	1.25	7	9
1	A	49	GLU	CD-OE1	10.80	1.37	1.25	2	8
1	A	73	GLU	CD-OE2	10.79	1.37	1.25	9	5
1	A	129	GLU	CD-OE2	10.79	1.37	1.25	1	7
1	A	76	GLU	CD-OE2	10.79	1.37	1.25	5	7
1	A	76	GLU	CD-OE1	10.78	1.37	1.25	11	8
1	A	38	GLU	CD-OE2	10.78	1.37	1.25	7	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	39	GLU	CD-OE1	10.78	1.37	1.25	5	5
1	A	32	GLU	CD-OE1	10.77	1.37	1.25	14	6
1	A	73	GLU	CD-OE1	10.77	1.37	1.25	3	10
1	A	133	GLU	CD-OE2	10.77	1.37	1.25	14	8
1	A	52	GLU	CD-OE2	10.77	1.37	1.25	9	8
1	A	53	GLU	CD-OE2	10.76	1.37	1.25	8	4
1	A	35	GLU	CD-OE2	10.76	1.37	1.25	3	8
1	A	97	GLU	CD-OE1	10.76	1.37	1.25	1	8
1	A	35	GLU	CD-OE1	10.76	1.37	1.25	8	7
1	A	52	GLU	CD-OE1	10.75	1.37	1.25	2	7
1	A	49	GLU	CD-OE2	10.75	1.37	1.25	3	7
1	A	129	GLU	CD-OE1	10.73	1.37	1.25	2	8
1	A	112	ASP	CG-OD1	5.34	1.37	1.25	8	6
1	A	45	ASP	CG-OD2	5.33	1.37	1.25	13	5
1	A	140	ASP	CG-OD1	5.32	1.37	1.25	1	9
1	A	27	ASP	CG-OD1	5.30	1.37	1.25	7	11
1	A	31	ASP	CG-OD1	5.30	1.37	1.25	7	9
1	A	141	TYR	CB-CG	5.30	1.59	1.51	14	1
1	A	140	ASP	CG-OD2	5.30	1.37	1.25	13	6
1	A	112	ASP	CG-OD2	5.30	1.37	1.25	6	9
1	A	27	ASP	CG-OD2	5.29	1.37	1.25	4	4
1	A	45	ASP	CG-OD1	5.29	1.37	1.25	3	10
1	A	81	ASP	CG-OD2	5.29	1.37	1.25	13	8
1	A	31	ASP	CG-OD2	5.28	1.37	1.25	6	6
1	A	81	ASP	CG-OD1	5.28	1.37	1.25	11	7

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	56	ARG	NE-CZ-NH1	11.69	126.15	120.30	15	15
1	A	90	ARG	NE-CZ-NH1	11.64	126.12	120.30	12	15
1	A	125	ARG	NE-CZ-NH1	11.64	126.12	120.30	3	15
1	A	41	ARG	NE-CZ-NH1	11.63	126.12	120.30	7	15
1	A	114	ARG	NE-CZ-NH1	11.61	126.11	120.30	12	15
1	A	28	ARG	NE-CZ-NH1	11.61	126.10	120.30	10	15
1	A	116	ARG	NE-CZ-NH1	11.59	126.09	120.30	10	15
1	A	140	ASP	CB-CG-OD2	-7.93	111.17	118.30	14	15
1	A	31	ASP	CB-CG-OD2	-7.61	111.45	118.30	12	15
1	A	112	ASP	CB-CG-OD2	-7.19	111.83	118.30	5	15
1	A	31	ASP	CB-CG-OD1	-7.17	111.84	118.30	2	15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	140	ASP	CB-CG-OD1	-7.17	111.85	118.30	8	15
1	A	81	ASP	CB-CG-OD2	-7.17	111.85	118.30	2	15
1	A	45	ASP	CB-CG-OD1	-7.16	111.86	118.30	3	15
1	A	27	ASP	CB-CG-OD2	-7.13	111.89	118.30	4	15
1	A	27	ASP	CB-CG-OD1	-7.13	111.89	118.30	7	15
1	A	45	ASP	CB-CG-OD2	-7.12	111.89	118.30	4	15
1	A	81	ASP	CB-CG-OD1	-7.11	111.90	118.30	15	15
1	A	112	ASP	CB-CG-OD1	-7.10	111.91	118.30	9	15
1	A	116	ARG	NE-CZ-NH2	-6.98	116.81	120.30	15	15
1	A	111	ALA	CB-CA-C	6.83	120.34	110.10	12	1
1	A	90	ARG	NE-CZ-NH2	-6.80	116.90	120.30	13	15
1	A	125	ARG	NE-CZ-NH2	-6.78	116.91	120.30	3	15
1	A	114	ARG	NE-CZ-NH2	-6.76	116.92	120.30	7	15
1	A	56	ARG	NE-CZ-NH2	-6.75	116.92	120.30	2	15
1	A	41	ARG	NE-CZ-NH2	-6.75	116.93	120.30	1	15
1	A	28	ARG	NE-CZ-NH2	-6.74	116.93	120.30	9	15
1	A	93	LEU	CB-CA-C	6.44	122.44	110.20	13	6
1	A	93	LEU	CA-CB-CG	6.24	129.66	115.30	4	1
1	A	51	VAL	CA-CB-CG1	6.21	120.21	110.90	10	2
1	A	30	MET	CA-CB-CG	6.12	123.71	113.30	6	1
1	A	117	LYS	CA-CB-CG	6.12	126.86	113.40	11	1
1	A	58	HIS	CA-CB-CG	6.01	123.82	113.60	5	4
1	A	79	MET	CA-CB-CG	6.00	123.49	113.30	5	2
1	A	73	GLU	CA-CB-CG	5.93	126.45	113.40	1	1
1	A	35	GLU	N-CA-CB	-5.86	100.05	110.60	8	11
1	A	128	VAL	CA-CB-CG1	5.79	119.59	110.90	14	7
1	A	141	TYR	CA-CB-CG	5.76	124.35	113.40	14	2
1	A	94	LYS	N-CA-CB	-5.48	100.74	110.60	13	2
1	A	78	LEU	CA-CB-CG	5.46	127.87	115.30	7	7
1	A	113	LEU	CA-CB-CG	5.46	127.85	115.30	14	1
1	A	120	HIS	CG-ND1-CE1	-5.43	98.64	105.70	8	14
1	A	89	VAL	CA-CB-CG2	5.38	118.98	110.90	4	2
1	A	93	LEU	N-CA-CB	-5.38	99.65	110.40	7	2
1	A	58	HIS	CG-ND1-CE1	-5.33	98.77	105.70	9	1
1	A	30	MET	CG-SD-CE	5.31	108.70	100.20	6	1
1	A	130	VAL	CA-CB-CG1	5.30	118.85	110.90	1	2
1	A	99	SER	N-CA-CB	-5.23	102.66	110.50	13	1
1	A	141	TYR	CB-CG-CD1	5.20	124.12	121.00	5	1
1	A	47	ILE	CA-CB-CG1	5.18	120.83	111.00	11	2
1	A	35	GLU	CB-CA-C	5.16	120.72	110.40	8	1
1	A	41	ARG	CB-CG-CD	5.13	124.94	111.60	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	75	LEU	CB-CG-CD2	5.11	119.68	111.00	4	1
1	A	37	VAL	CA-CB-CG2	5.10	118.56	110.90	8	3
1	A	37	VAL	CA-CB-CG1	5.10	118.55	110.90	10	1

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	141	TYR	Sidechain	4
1	A	134	TYR	Sidechain	1
1	A	58	HIS	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	782	785	782	0±0
All	All	11730	11775	11730	-

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 -.

There are no clashes.

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	93/120 (78%)	90±1 (96±1%)	3±1 (3±1%)	0±0 (0±0%)	50 83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	1395/1800 (78%)	1346 (96%)	45 (3%)	4 (0%)	50 83

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	111	ALA	2
1	A	112	ASP	2

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	88/112 (79%)	85±1 (96±1%)	3±1 (4±1%)	45 87
All	All	1320/1680 (79%)	1271 (96%)	49 (4%)	45 87

All 27 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	58	HIS	5
1	A	93	LEU	4
1	A	112	ASP	4
1	A	127	PHE	3
1	A	78	LEU	3
1	A	53	GLU	2
1	A	45	ASP	2
1	A	39	GLU	2
1	A	35	GLU	2
1	A	113	LEU	2
1	A	97	GLU	2
1	A	51	VAL	2
1	A	94	LYS	2
1	A	28	ARG	1
1	A	126	LYS	1
1	A	131	MET	1
1	A	116	ARG	1

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Mol	Chain	Res	Type	Models (Total)
1	A	117	LYS	1
1	A	141	TYR	1
1	A	55	LYS	1
1	A	56	ARG	1
1	A	119	GLN	1
1	A	133	GLU	1
1	A	72	LYS	1
1	A	83	LYS	1
1	A	46	LYS	1
1	A	27	ASP	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 88% for the well-defined parts and 88% for the entire structure.

7.1 Chemical shift list 1

File name: BMRB entry 4198

Chemical shift list name: *assigned_chem_shift_list_1*

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	1504
Number of shifts mapped to atoms	1504
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	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
$^{13}\text{C}_\alpha$	120	-0.28 ± 0.09	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	118	0.30 ± 0.06	None needed (< 0.5 ppm)
$^{13}\text{C}'$	120	-0.48 ± 0.04	None needed (< 0.5 ppm)
^{15}N	118	-0.45 ± 0.08	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 88%, i.e. 1094 atoms were assigned a chemical shift out of a possible 1245. 8 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	470/470 (100%)	188/188 (100%)	188/188 (100%)	94/94 (100%)
Sidechain	565/700 (81%)	362/411 (88%)	196/250 (78%)	7/39 (18%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	59/75 (79%)	35/41 (85%)	24/32 (75%)	0/2 (0%)
Overall	1094/1245 (88%)	585/640 (91%)	408/470 (87%)	101/135 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 1381 atoms were assigned a chemical shift out of a possible 1577. 10 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	596/596 (100%)	238/238 (100%)	240/240 (100%)	118/118 (100%)
Sidechain	726/906 (80%)	468/534 (88%)	248/319 (78%)	10/53 (19%)
Aromatic	59/75 (79%)	35/41 (85%)	24/32 (75%)	0/2 (0%)
Overall	1381/1577 (88%)	741/813 (91%)	512/591 (87%)	128/173 (74%)

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	116	ARG	HG3	-0.23	3.00 – 0.10	-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:

