



Full wwPDB NMR Structure Validation Report ⓘ

Jun 23, 2026 – 03:21 AM EDT

PDB ID : 2MTV / pdb_00002mtv
BMRB ID : 25188
Title : Solution Structure of the YTH Domain of YT521-B in complex with N6-Methyladenosine containing RNA
Authors : Theler, D.; Dominguez, C.; Blatter, M.; Boudet, J.; Allain, F.H.-T.
Deposited on : 2014-09-01

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
Mogul : 2022.3.0, CSD as543be (2022)
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

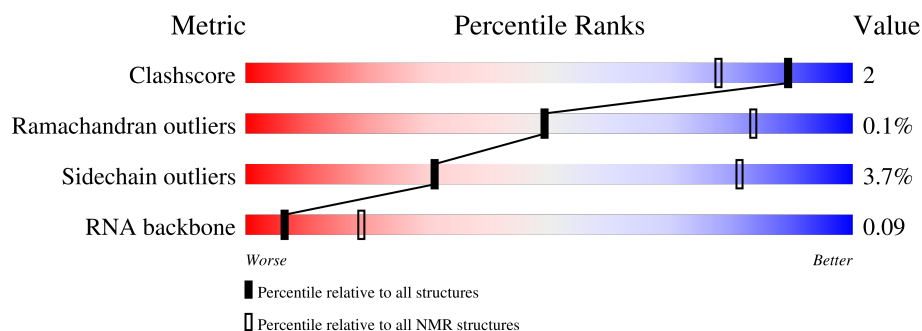
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment 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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823
RNA backbone	8273	777

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	156	
2	B	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:351-A:423, A:428-A:498 (144)	0.22	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 4 clusters and 3 single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2673 atoms, of which 1316 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called YTH domain-containing protein 1.

Mol	Chain	Residues	Atoms						Trace
1	A	156	Total	C	H	N	O	S	0
			2481	787	1249	221	219	5	

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	353	SER	TYR	conflict	UNP Q9QY02

- Molecule 2 is a RNA chain called RNA_(5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3').

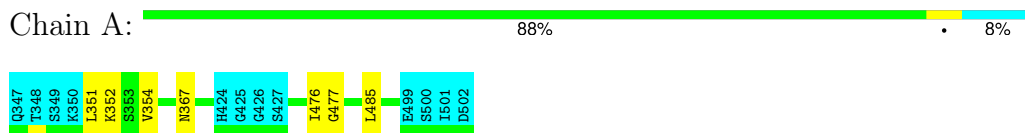
Mol	Chain	Residues	Atoms						Trace
2	B	6	Total	C	H	N	O	P	0
			192	58	67	23	39	5	

4 Residue-property plots [i](#)

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: YTH domain-containing protein 1



- Molecule 2: RNA_(5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')

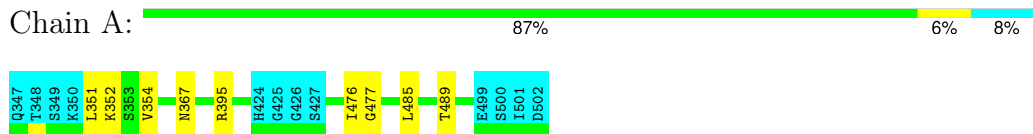


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: YTH domain-containing protein 1

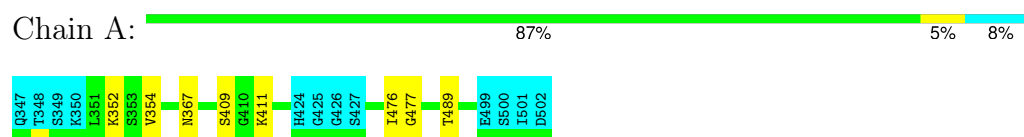


- Molecule 2: RNA_(5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.2 Score per residue for model 2

- Molecule 1: YTH domain-containing protein 1

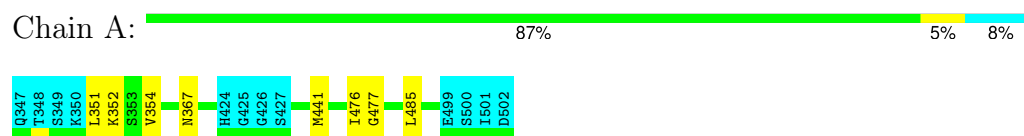


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.3 Score per residue for model 3

- Molecule 1: YTH domain-containing protein 1

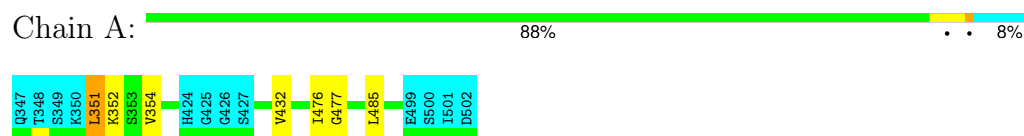


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.4 Score per residue for model 4

- Molecule 1: YTH domain-containing protein 1

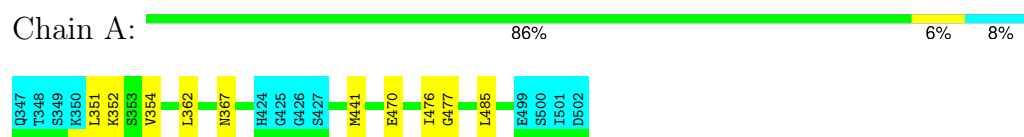


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.5 Score per residue for model 5

- Molecule 1: YTH domain-containing protein 1

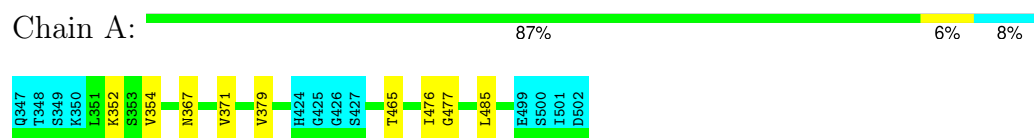


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.6 Score per residue for model 6

- Molecule 1: YTH domain-containing protein 1

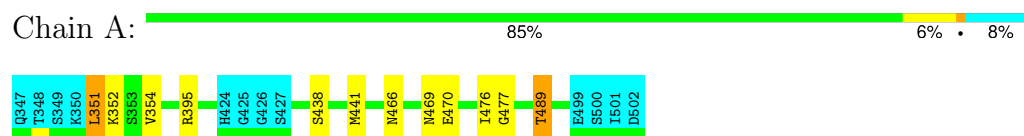


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.7 Score per residue for model 7

- Molecule 1: YTH domain-containing protein 1

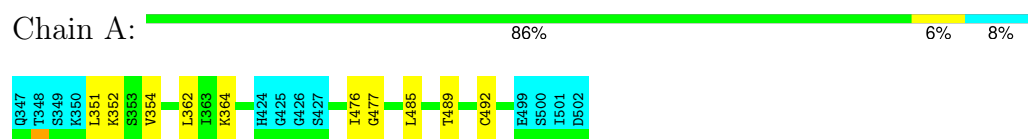


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.8 Score per residue for model 8

- Molecule 1: YTH domain-containing protein 1

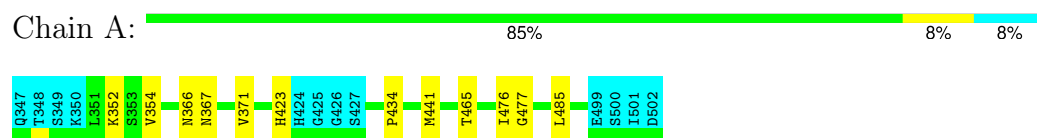


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.9 Score per residue for model 9

- Molecule 1: YTH domain-containing protein 1

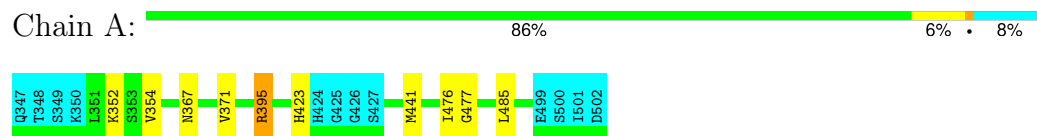


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.10 Score per residue for model 10

- Molecule 1: YTH domain-containing protein 1



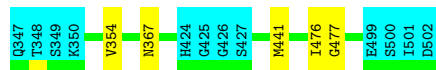
- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.11 Score per residue for model 11

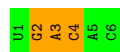
- Molecule 1: YTH domain-containing protein 1

Chain A:  89% 8%



- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')

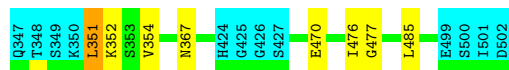
Chain B:  50% 50%



4.2.12 Score per residue for model 12

- Molecule 1: YTH domain-containing protein 1

Chain A:  87% 8%



- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')

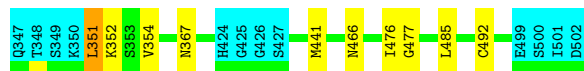
Chain B:  50% 17% 33%



4.2.13 Score per residue for model 13

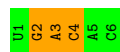
- Molecule 1: YTH domain-containing protein 1

Chain A:  86% 6% 8%



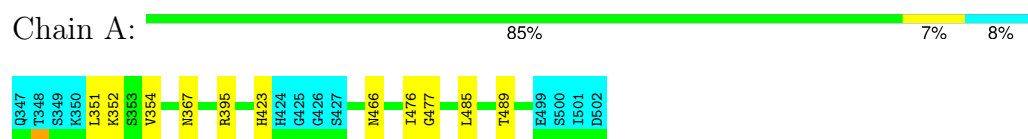
- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')

Chain B:  50% 50%



4.2.14 Score per residue for model 14

- Molecule 1: YTH domain-containing protein 1

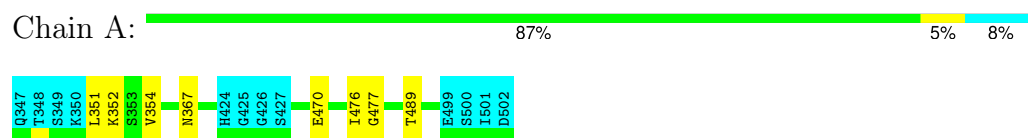


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.15 Score per residue for model 15

- Molecule 1: YTH domain-containing protein 1

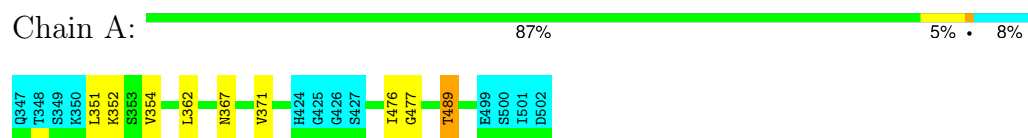


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.16 Score per residue for model 16

- Molecule 1: YTH domain-containing protein 1

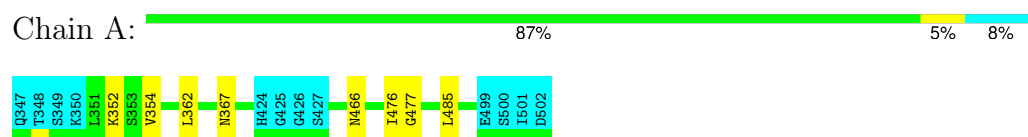


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.17 Score per residue for model 17

- Molecule 1: YTH domain-containing protein 1

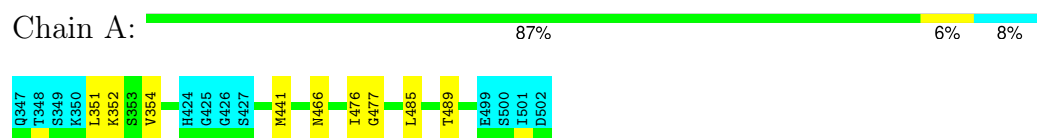


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.18 Score per residue for model 18

- Molecule 1: YTH domain-containing protein 1

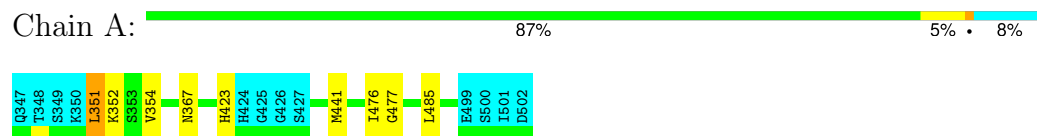


- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.19 Score per residue for model 19

- Molecule 1: YTH domain-containing protein 1



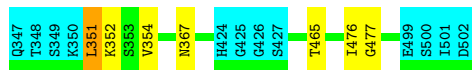
- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')



4.2.20 Score per residue for model 20

- Molecule 1: YTH domain-containing protein 1

Chain A:  88% . . 8%



- Molecule 2: RNA_ (5'-R(*UP*GP*(6MZ)P*CP*AP*C)-3')

Chain B:  50% 17% 17% 17%



5 Refinement protocol and experimental data overview

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

Of the 50 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
CYANA	structure solution	
Amber	refinement	

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)	working_cs.cif
Number of chemical shift lists	2
Total number of shifts	1976
Number of shifts mapped to atoms	1976
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%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 6MZ

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	0.53±0.00	0±0/1176 (0.0± 0.0%)	1.02±0.01	0±0/1588 (0.0± 0.0%)
2	B	0.72±0.01	0±0/112 (0.0± 0.0%)	1.18±0.03	0±1/170 (0.1± 0.3%)
All	All	0.55	0/25760 (0.0%)	1.04	7/35160 (0.0%)

There are no bond-length outliers.

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
2	B	2	G	C2'-C3'-O3'	-5.32	105.71	113.70	17	3
2	B	4	C	C5'-C4'-C3'	-5.25	108.13	116.00	20	1
1	A	489	THR	N-CA-C	-5.07	105.66	111.14	16	2
2	B	2	G	O4'-C1'-N9	5.02	116.03	108.50	5	1

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	1146	1170	1170	4±1
2	B	125	67	69	1±1
All	All	25420	24740	24780	92

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:476:ILE:HG22	1:A:477:GLY:H	0.60	1.56	19	20
1:A:351:LEU:C	1:A:351:LEU:HD13	0.53	2.29	7	9
2:B:4:C:C6	2:B:4:C:H5"	0.52	2.39	20	16
1:A:476:ILE:HG22	1:A:477:GLY:N	0.48	2.23	4	11
1:A:441:MET:HG2	2:B:2:G:C8	0.48	2.44	3	8
1:A:485:LEU:HD13	1:A:485:LEU:C	0.47	2.33	17	13
1:A:351:LEU:HD11	1:A:492:CYS:SG	0.46	2.50	8	2
1:A:362:LEU:C	1:A:362:LEU:HD23	0.43	2.38	8	4
1:A:438:SER:H	1:A:441:MET:HE2	0.42	1.74	7	1
1:A:366:ASN:HD22	1:A:434:PRO:CB	0.41	2.28	9	1
1:A:469:ASN:CG	1:A:470:GLU:H	0.41	2.24	7	1
1:A:362:LEU:HD21	1:A:364:LYS:HE2	0.41	1.92	8	1
1:A:409:SER:C	1:A:411:LYS:H	0.41	2.23	2	1
1:A:351:LEU:HD13	1:A:351:LEU:C	0.41	2.40	3	3
1:A:395:ARG:H	1:A:395:ARG:HD3	0.40	1.76	10	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	144/156 (92%)	137±1 (95±1%)	6±1 (4±1%)	0±0 (0±0%)	49	83
All	All	2880/3120 (92%)	2749 (95%)	128 (4%)	3 (0%)	49	83

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	470	GLU	3

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	126/136 (93%)	121±1 (96±1%)	5±1 (4±1%)	31	81
All	All	2520/2720 (93%)	2426 (96%)	94 (4%)	31	81

All 13 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	354	VAL	20
1	A	352	LYS	19
1	A	367	ASN	16
1	A	489	THR	8
1	A	351	LEU	8
1	A	466	ASN	5
1	A	395	ARG	4
1	A	371	VAL	4
1	A	423	HIS	4
1	A	465	THR	3
1	A	432	VAL	1
1	A	379	VAL	1
1	A	485	LEU	1

6.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
2	B	5/6 (83%)	2±0 (40±0%)	1±0 (21±4%)	0.13±0.00
All	All	100/120 (83%)	40 (40%)	21 (21%)	0.13

The overall RNA backbone suiteness is 0.09.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	2	G	20
2	B	3	6MZ	20

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	4	C	20
2	B	5	A	1

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	6MZ	B	3	2	22,25,26	0.59±0.01	0±0 (0±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	6MZ	B	3	2	29,36,39	0.95±0.08	1±0 (3±0%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6MZ	B	3	2	-	0±0,9,27,28	0±0,3,3,3

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)	Models	
								Worst	Total
2	B	3	6MZ	O4'-C1'-N9	3.62	115.03	108.09	18	20

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 87% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

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	1895
Number of shifts mapped to atoms	1895
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	19

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	154	-0.08 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	142	0.19 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}'$	124	0.21 ± 0.15	None needed (< 0.5 ppm)
^{15}N	140	0.13 ± 0.28	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 86%, i.e. 1812 atoms were assigned a chemical shift out of a possible 2117. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	680/713 (95%)	282/289 (98%)	265/288 (92%)	133/136 (98%)
Sidechain	1012/1137 (89%)	691/741 (93%)	310/349 (89%)	11/47 (23%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	120/173 (69%)	68/89 (76%)	48/75 (64%)	4/9 (44%)
Sugar	0/55 (0%)	0/30 (0%)	0/25 (0%)	0/0 (—%)
Base	0/39 (0%)	0/24 (0%)	0/9 (0%)	0/6 (0%)
Overall	1812/2117 (86%)	1041/1173 (89%)	623/746 (84%)	148/198 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 1895 atoms were assigned a chemical shift out of a possible 2251. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	716/775 (92%)	298/315 (95%)	278/312 (89%)	140/148 (95%)
Sidechain	1057/1202 (88%)	722/782 (92%)	324/371 (87%)	11/49 (22%)
Aromatic	122/180 (68%)	69/93 (74%)	49/77 (64%)	4/10 (40%)
Sugar	0/55 (0%)	0/30 (0%)	0/25 (0%)	0/0 (—%)
Base	0/39 (0%)	0/24 (0%)	0/9 (0%)	0/6 (0%)
Overall	1895/2251 (84%)	1089/1244 (88%)	651/794 (82%)	155/213 (73%)

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.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	484	GLU	HB2	-0.14	1.00 – 3.05	-10.5
1	A	375	LYS	HG3	-1.15	0.04 – 2.67	-9.5
1	A	475	LYS	HB2	-0.35	0.58 – 2.97	-8.9
1	A	484	GLU	HA	1.32	2.24 – 6.23	-7.3
1	A	422	SER	HB2	2.07	2.61 – 5.13	-7.1
1	A	488	GLY	HA3	1.66	2.08 – 5.71	-6.2
1	A	404	PHE	HE1	5.32	5.56 – 8.62	-5.8
1	A	370	ASN	HD21	10.08	4.94 – 9.72	5.8
1	A	404	PHE	HE2	5.32	5.54 – 8.63	-5.7
1	A	381	SER	H	5.09	5.45 – 11.10	-5.6
1	A	429	ILE	HG21	-0.67	-0.56 – 2.11	-5.4
1	A	429	ILE	HG22	-0.67	-0.56 – 2.11	-5.4
1	A	429	ILE	HG23	-0.67	-0.56 – 2.11	-5.4
1	A	450	TRP	HH2	5.13	5.24 – 8.73	-5.3
1	A	416	ALA	HB1	0.08	0.14 – 2.58	-5.2
1	A	416	ALA	HB2	0.08	0.14 – 2.58	-5.2
1	A	416	ALA	HB3	0.08	0.14 – 2.58	-5.2
1	A	375	LYS	HE2	1.91	1.95 – 3.88	-5.2

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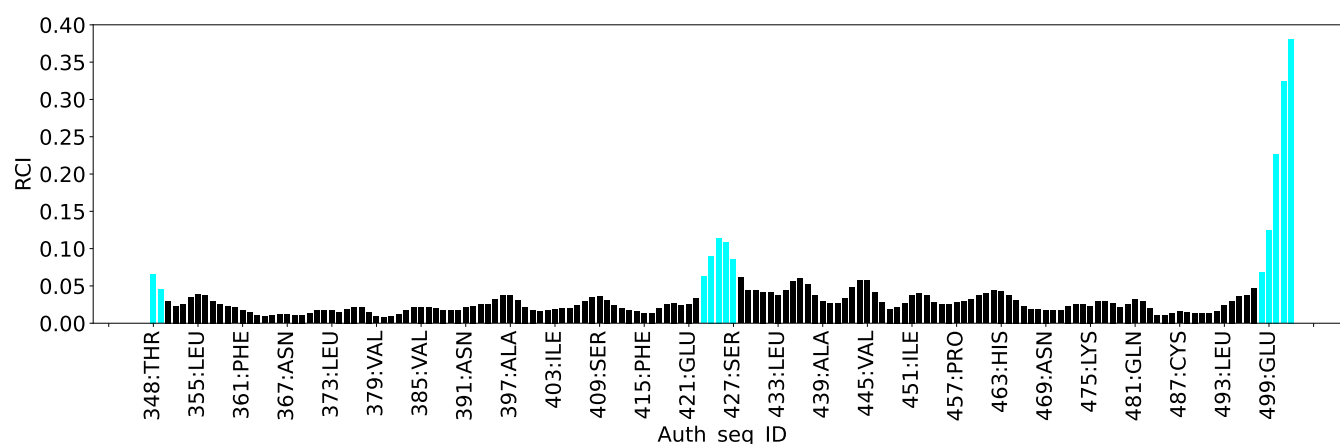
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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	375	LYS	HE3	1.91	1.92 – 3.89	-5.1

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. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



7.2 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_2*

7.2.1 Bookkeeping [i](#)

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	81
Number of shifts mapped to atoms	81
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.2.2 Chemical shift referencing [i](#)

No chemical shift referencing corrections were calculated (not enough data).

7.2.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 3%, i.e. 62 atoms were assigned a chemical shift out of a possible 2117. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/713 (0%)	0/289 (0%)	0/288 (0%)	0/136 (0%)
Sidechain	0/1137 (0%)	0/741 (0%)	0/349 (0%)	0/47 (0%)
Aromatic	0/173 (0%)	0/89 (0%)	0/75 (0%)	0/9 (0%)
Sugar	46/55 (84%)	28/30 (93%)	18/25 (72%)	0/0 (—%)
Base	16/39 (41%)	8/24 (33%)	8/9 (89%)	0/6 (0%)
Overall	62/2117 (3%)	36/1173 (3%)	26/746 (3%)	0/198 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 3%, i.e. 62 atoms were assigned a chemical shift out of a possible 2251. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/775 (0%)	0/315 (0%)	0/312 (0%)	0/148 (0%)
Sidechain	0/1202 (0%)	0/782 (0%)	0/371 (0%)	0/49 (0%)
Aromatic	0/180 (0%)	0/93 (0%)	0/77 (0%)	0/10 (0%)
Sugar	46/55 (84%)	28/30 (93%)	18/25 (72%)	0/0 (—%)
Base	16/39 (41%)	8/24 (33%)	8/9 (89%)	0/6 (0%)
Overall	62/2251 (3%)	36/1244 (3%)	26/794 (3%)	0/213 (0%)

7.2.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins