



Full wwPDB NMR Structure Validation Report ⓘ

Jun 22, 2024 – 02:07 PM EDT

PDB ID : 5LVF
BMRB ID : 34041
Title : Solution structure of Rtt103 CTD-interacting domain bound to a Thr4 phosphorylated CTD peptide
Authors : Jasnovidova, O.; Kubicek, K.; Krejcikova, M.; Stefl, R.
Deposited on : 2016-09-14

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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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
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) : 2.37.1

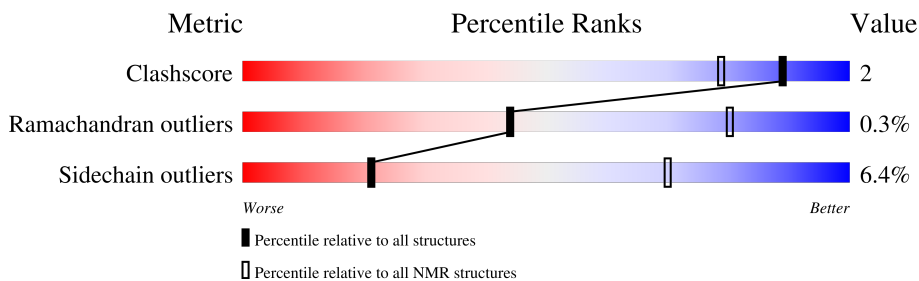
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 84%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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	142	
2	B	16	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 3 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:6-A:15, A:22-A:131 (120)	0.22	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 5 clusters and 1 single-model cluster was found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2579 atoms, of which 1293 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Regulator of Ty1 transposition protein 103.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	142	2356	738	1190	215	209	4	0

There are 13 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q05543
A	2	ALA	-	expression tag	UNP Q05543
A	132	ALA	-	expression tag	UNP Q05543
A	133	ALA	-	expression tag	UNP Q05543
A	134	ALA	-	expression tag	UNP Q05543
A	135	LEU	-	expression tag	UNP Q05543
A	136	GLU	-	expression tag	UNP Q05543
A	137	HIS	-	expression tag	UNP Q05543
A	138	HIS	-	expression tag	UNP Q05543
A	139	HIS	-	expression tag	UNP Q05543
A	140	HIS	-	expression tag	UNP Q05543
A	141	HIS	-	expression tag	UNP Q05543
A	142	HIS	-	expression tag	UNP Q05543

- Molecule 2 is a protein called PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER.

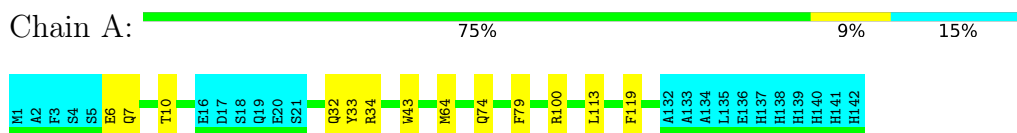
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	P	
2	B	16	223	72	103	16	31	1	0

4 Residue-property plots [i](#)

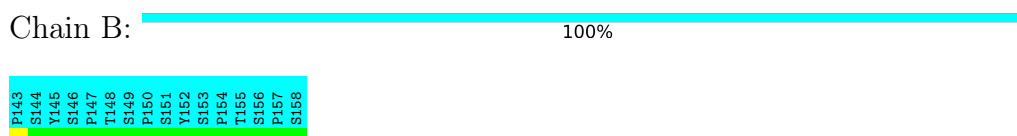
4.1 Average score per residue in the NMR ensemble

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: Regulator of Ty1 transposition protein 103



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

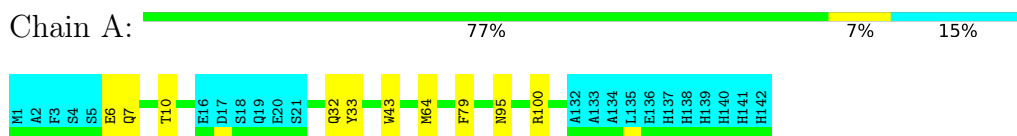


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

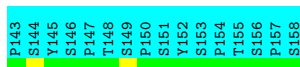
4.2.1 Score per residue for model 1

- Molecule 1: Regulator of Ty1 transposition protein 103



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER





4.2.2 Score per residue for model 2

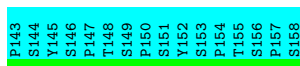
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 74% 11% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.3 Score per residue for model 3 (medoid)

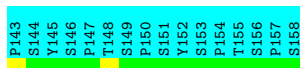
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 74% 11% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

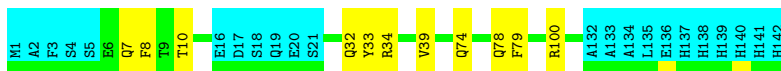
Chain B: 100%



4.2.4 Score per residue for model 4

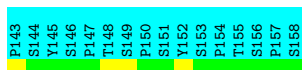
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 77% 8% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

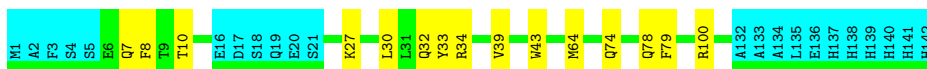
Chain B:  100%



4.2.5 Score per residue for model 5

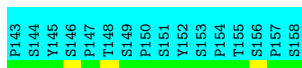
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  74%  11%  15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

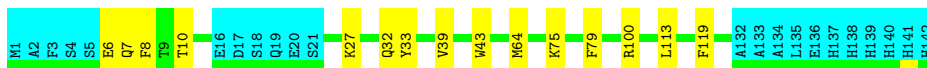
Chain B:  100%



4.2.6 Score per residue for model 6

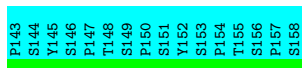
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  74%  11%  15%




- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B:  100%



4.2.7 Score per residue for model 7

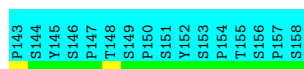
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  75%  9%  15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.8 Score per residue for model 8

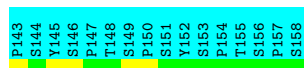
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 75% 10% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.9 Score per residue for model 9

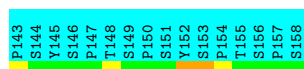
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 73% 11% 15%



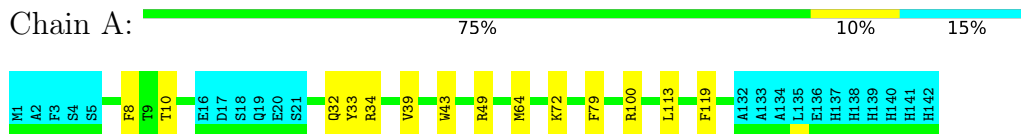
- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%

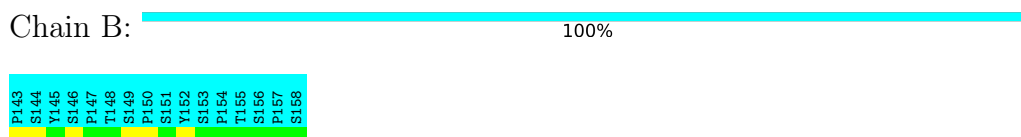


4.2.10 Score per residue for model 10

- Molecule 1: Regulator of Ty1 transposition protein 103

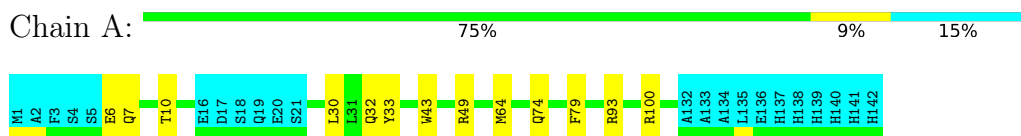


- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

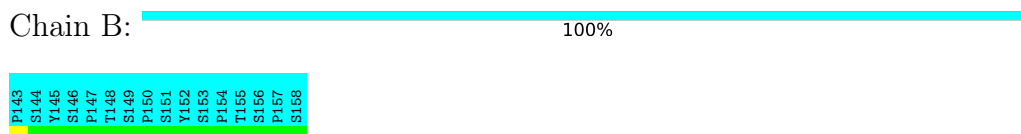


4.2.11 Score per residue for model 11

- Molecule 1: Regulator of Ty1 transposition protein 103

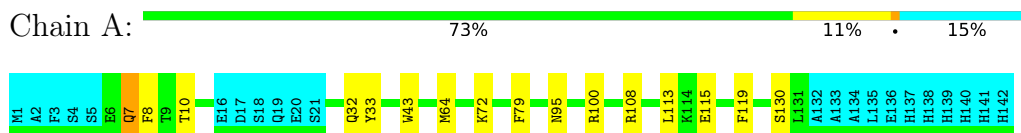


- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER



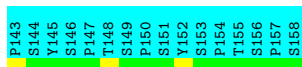
4.2.12 Score per residue for model 12

- Molecule 1: Regulator of Ty1 transposition protein 103



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

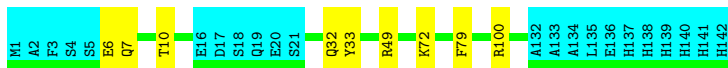




4.2.13 Score per residue for model 13

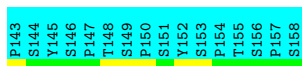
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 78% 6% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.14 Score per residue for model 14

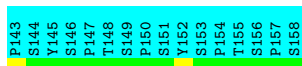
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 73% 11% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

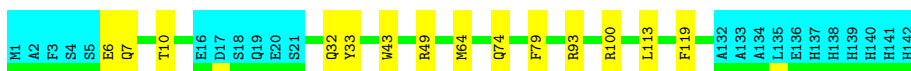
Chain B: 100%



4.2.15 Score per residue for model 15

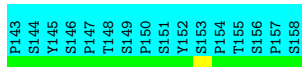
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 75% 10% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B:  100%



4.2.16 Score per residue for model 16

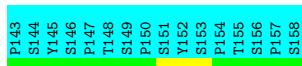
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  73%  12%  15%





- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B:  100%



4.2.17 Score per residue for model 17

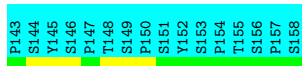
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  75%  9%  15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B:  100%



4.2.18 Score per residue for model 18

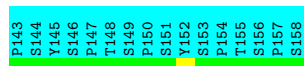
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A:  75%  10%  15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.19 Score per residue for model 19

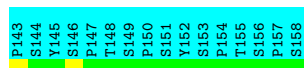
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 73% 11% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



4.2.20 Score per residue for model 20

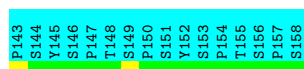
- Molecule 1: Regulator of Ty1 transposition protein 103

Chain A: 75% 9% 15%



- Molecule 2: PRO-SER-TYR-SER-PRO-PTH-SER-PRO-SER-TYR-SER-PRO-THR-SER-PRO-SER

Chain B: 100%



5 Refinement protocol and experimental data overview

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

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 calculation	3.97
Amber	refinement	16

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	1
Total number of shifts	1614
Number of shifts mapped to atoms	1614
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	84%

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: TPO

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	990	1047	1047	4±1
2	B	0	0	0	0±0
All	All	19800	20940	20940	73

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:7:GLN:CG	1:A:8:PHE:H	0.61	2.08	12	1
1:A:113:LEU:HD11	1:A:119:PHE:CE1	0.57	2.34	16	8
1:A:33:TYR:HA	1:A:79:PHE:CZ	0.53	2.39	5	20
1:A:7:GLN:CG	1:A:8:PHE:N	0.49	2.74	12	1
1:A:43:TRP:CZ2	1:A:64:MET:HG2	0.49	2.43	16	17
1:A:113:LEU:HD11	1:A:119:PHE:CE2	0.48	2.42	19	4
1:A:78:GLN:CD	1:A:78:GLN:H	0.47	2.12	17	3
1:A:30:LEU:HD23	1:A:79:PHE:CE1	0.46	2.44	5	2
1:A:78:GLN:CD	1:A:78:GLN:N	0.43	2.72	17	3
1:A:8:PHE:CG	1:A:39:VAL:HG13	0.43	2.48	2	6
1:A:113:LEU:HD21	1:A:119:PHE:CD1	0.43	2.49	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:24:SER:HA	1:A:27:LYS:HE2	0.43	1.90	2	1
1:A:30:LEU:HD23	1:A:79:PHE:CE2	0.43	2.49	11	1
1:A:75:LYS:HE2	1:A:75:LYS:HA	0.42	1.92	6	1
1:A:8:PHE:CD2	1:A:39:VAL:HG13	0.41	2.50	6	1
1:A:52:VAL:HG12	1:A:57:LYS:HE2	0.41	1.92	14	1
1:A:34:ARG:H	1:A:34:ARG:CD	0.41	2.28	9	1
1:A:52:VAL:HG13	1:A:57:LYS:HE2	0.40	1.94	18	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	120/142 (85%)	112±1 (94±1%)	7±1 (6±1%)	0±0 (0±0%)	44 80
2	B	0	-	-	-	-
All	All	2400/3160 (76%)	2244 (94%)	149 (6%)	7 (0%)	44 80

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	6	GLU	6
1	A	7	GLN	1

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	110/128 (86%)	103±1 (94±1%)	7±1 (6±1%)	21 70
2	B	0	-	-	-

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	2200/2860 (77%)	2060 (94%)	140 (6%)	21 70

All 22 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	10	THR	20
1	A	32	GLN	20
1	A	100	ARG	20
1	A	7	GLN	17
1	A	74	GLN	13
1	A	34	ARG	10
1	A	49	ARG	10
1	A	6	GLU	8
1	A	95	ASN	4
1	A	113	LEU	2
1	A	27	LYS	2
1	A	93	ARG	2
1	A	108	ARG	2
1	A	115	GLU	2
1	A	42	MET	1
1	A	75	LYS	1
1	A	130	SER	1
1	A	121	LYS	1
1	A	78	GLN	1
1	A	55	ARG	1
1	A	104	LYS	1
1	A	116	ARG	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](#)

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	TPO	B	148	2	8,10,11	1.04±0.02	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	TPO	B	148	2	10,14,16	1.29±0.06	0±0 (4±4%)

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	TPO	B	148	2	-	0±0,9,11,13	-

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	148	TPO	O-C-CA	2.27	118.83	124.78	17	5
2	B	148	TPO	CG2-CB-CA	2.16	108.91	113.16	3	2
2	B	148	TPO	O3P-P-O2P	2.03	115.41	107.64	5	1

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no monosaccharides 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 i

The completeness of assignment taking into account all chemical shift lists is 84% for the well-defined parts and 73% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *Rtt103_CID_pThr4_shifts_for_dep.txt*

7.1.1 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	1614
Number of shifts mapped to atoms	1614
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 i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	130	2.12 ± 0.09	Should be checked
$^{13}\text{C}_\beta$	123	3.14 ± 0.11	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	126	0.87 ± 0.28	Should be applied

7.1.3 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 84%, i.e. 1495 atoms were assigned a chemical shift out of a possible 1789. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	462/598 (77%)	233/241 (97%)	117/240 (49%)	112/117 (96%)
Sidechain	942/1083 (87%)	643/700 (92%)	284/327 (87%)	15/56 (27%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	91/108 (84%)	50/53 (94%)	39/52 (75%)	2/3 (67%)
Overall	1495/1789 (84%)	926/994 (93%)	440/619 (71%)	129/176 (73%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 73%, i.e. 1614 atoms were assigned a chemical shift out of a possible 2219. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	516/773 (67%)	260/310 (84%)	130/314 (41%)	126/149 (85%)
Sidechain	1001/1268 (79%)	684/822 (83%)	301/389 (77%)	16/57 (28%)
Aromatic	97/178 (54%)	54/90 (60%)	41/79 (52%)	2/9 (22%)
Overall	1614/2219 (73%)	998/1222 (82%)	472/782 (60%)	144/215 (67%)

7.1.4 Statistically unusual chemical shifts [i](#)

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	11	LYS	HE2	1.48	1.95 – 3.88	-7.4
1	A	11	LYS	HE3	1.65	1.92 – 3.89	-6.4
1	A	47	MET	HB3	0.29	0.33 – 3.66	-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:

