



# Full wwPDB NMR Structure Validation Report ⓘ

Feb 13, 2017 – 01:45 am GMT

PDB ID : 2N80  
Title : p75NTR DD:RhoGDI  
Authors : Lin, Z.; Ibanez, C.F.  
Deposited on : 2015-09-30

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto: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  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
ShiftChecker : trunk28760  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : recalc28949

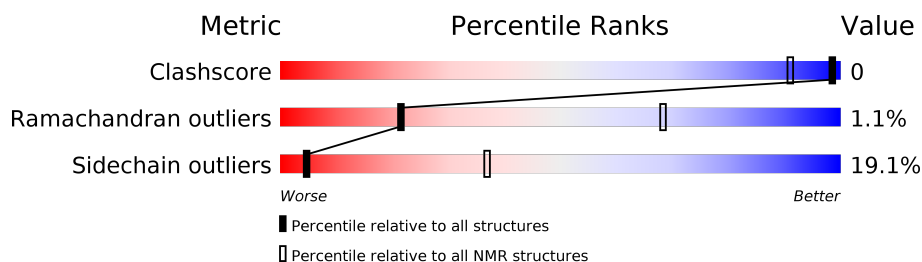
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 79%.

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	125131	11601
Ramachandran outliers	121729	10391
Sidechain outliers	121581	10367

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  $\geq 3$ , 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	94	 78% 16% 6%
2	B	174	 70% 16% 14%

## 2 Ensemble composition and analysis

This entry contains 10 models. Model 10 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:334-A:421, B:68-B:203 (224)	0.41	10
2	B:34-B:47 (14)	0.85	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 2 clusters and 1 single-model cluster was found.

Cluster number	Models
1	3, 4, 5, 6, 7, 9, 10
2	2, 8
Single-model clusters	1

### 3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 4210 atoms, of which 2098 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Tumor necrosis factor receptor superfamily member 16.

Mol	Chain	Residues	Atoms						Trace
1	A	94	Total	C	H	N	O	S	0
			1413	444	699	126	142	2	

- Molecule 2 is a protein called Rho GDP-dissociation inhibitor 1.

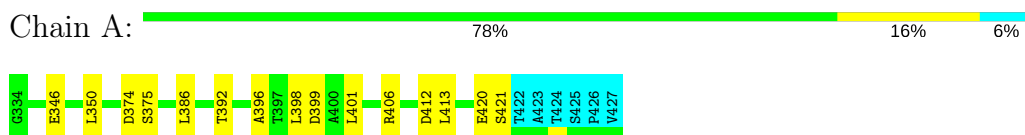
Mol	Chain	Residues	Atoms						Trace
2	B	174	Total	C	H	N	O	S	0
			2797	887	1399	235	272	4	

## 4 Residue-property plots [i](#)

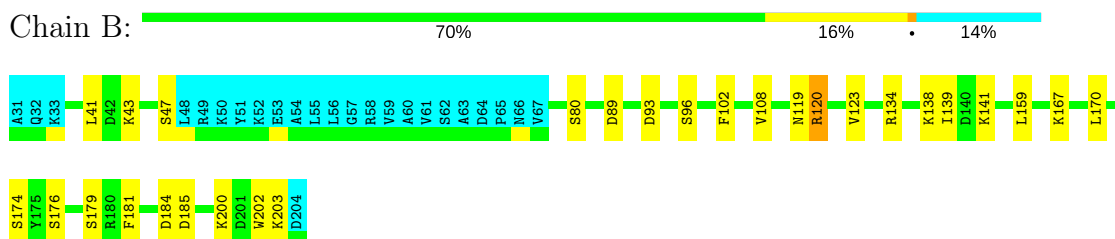
### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Tumor necrosis factor receptor superfamily member 16



- Molecule 2: Rho GDP-dissociation inhibitor 1

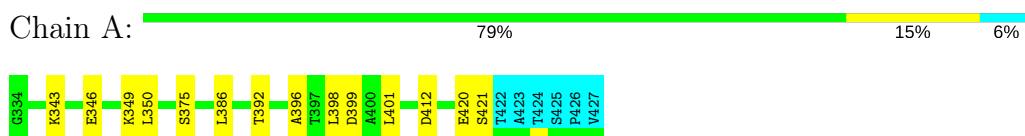


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

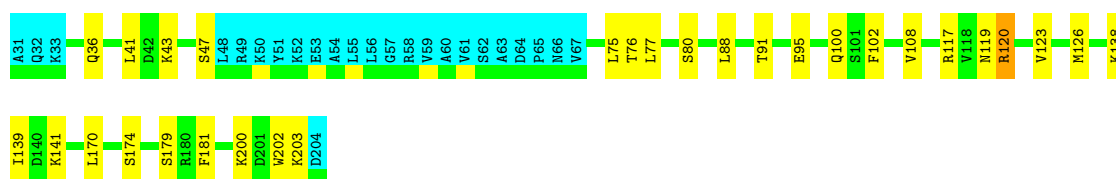
#### 4.2.1 Score per residue for model 1

- Molecule 1: Tumor necrosis factor receptor superfamily member 16



- Molecule 2: Rho GDP-dissociation inhibitor 1





#### 4.2.2 Score per residue for model 2

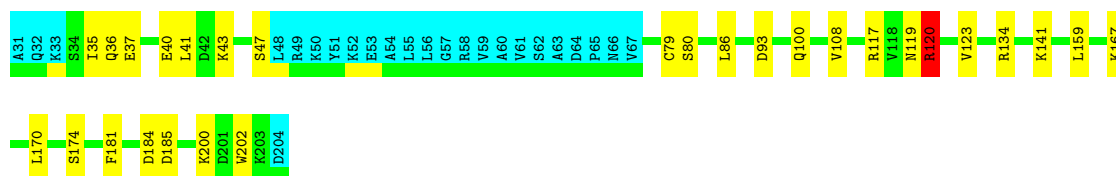
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 77% 17% 6%



- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 70% 16% 14%



#### 4.2.3 Score per residue for model 3

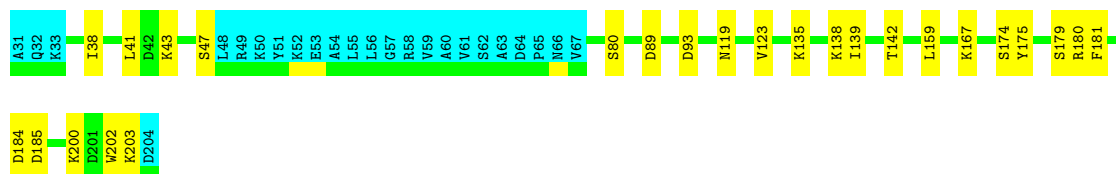
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 81% 12% 6%




- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 72% 14% 14%



#### 4.2.4 Score per residue for model 4

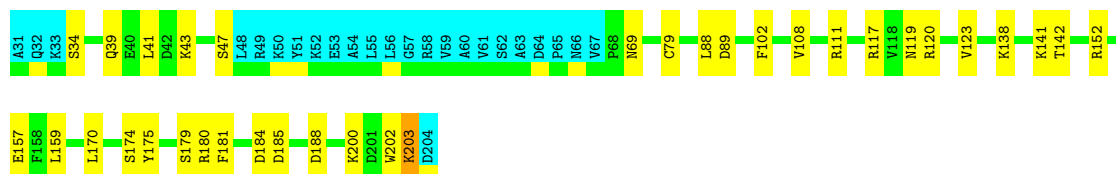
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 



- Molecule 2: Rho GDP-dissociation inhibitor 1

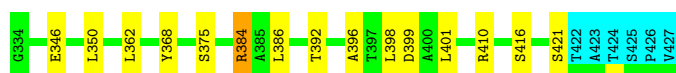
Chain B: 



#### 4.2.5 Score per residue for model 5

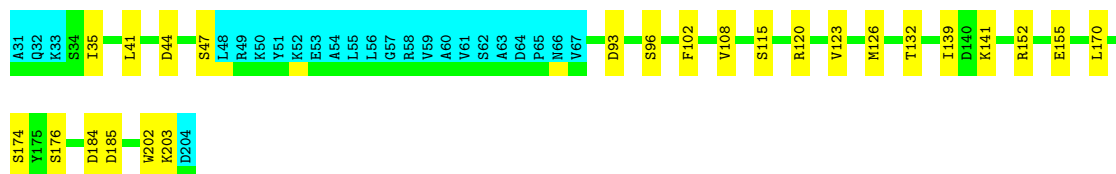
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 



- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 



#### 4.2.6 Score per residue for model 6

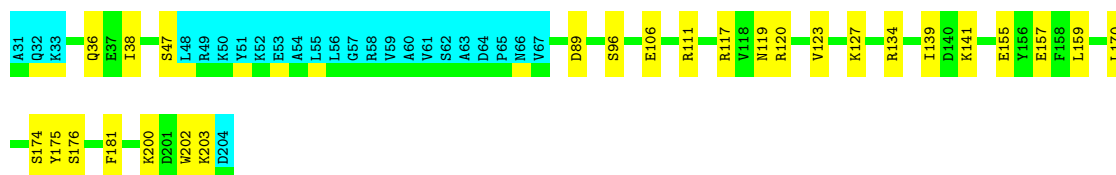
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 



- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 



#### 4.2.7 Score per residue for model 7

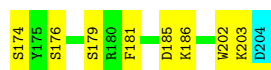
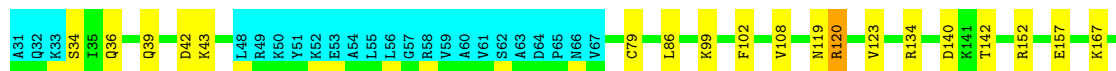
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 79% 15% 6%



- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 71% 15% 14%



#### 4.2.8 Score per residue for model 8

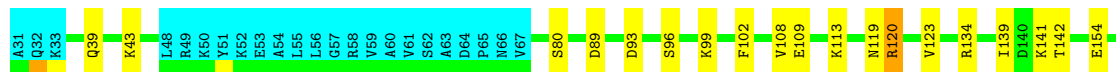
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 81% 13% 6%



- Molecule 2: Rho GDP-dissociation inhibitor 1


Chain B: 70% 16% 14%

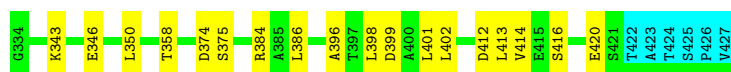


#### 4.2.9 Score per residue for model 9

- Molecule 1: Tumor necrosis factor receptor superfamily member 16

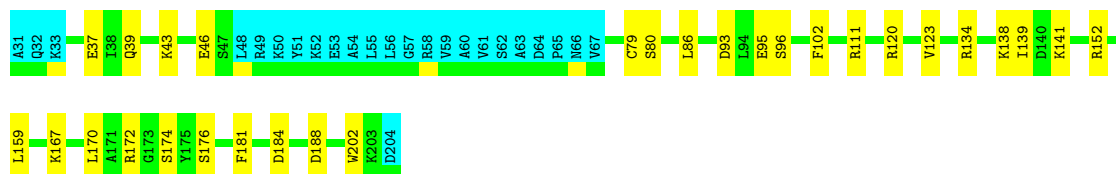


Chain A: 



- Molecule 2: Rho GDP-dissociation inhibitor 1

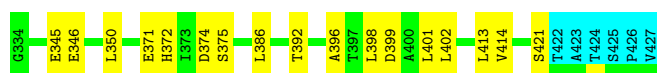
Chain B: 



#### 4.2.10 Score per residue for model 10 (medoid)

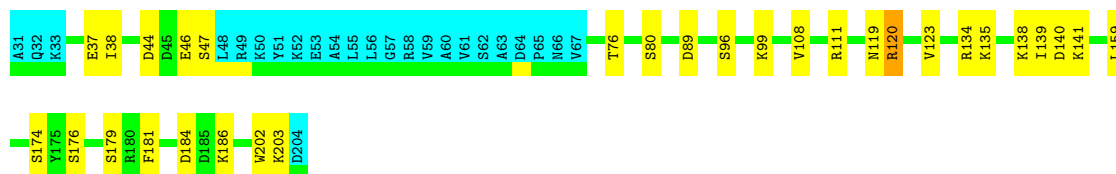
- Molecule 1: Tumor necrosis factor receptor superfamily member 16

Chain A: 



- Molecule 2: Rho GDP-dissociation inhibitor 1

Chain B: 



## 5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 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)	2n80_cs.str
Number of chemical shift lists	2
Total number of shifts	2849
Number of shifts mapped to atoms	2849
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	79%

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

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	0.70±0.04	0±0/689 (0.0±0.0%)	0.97±0.02	0±1/938 (0.0±0.1%)
2	B	0.73±0.02	0±0/1239 (0.0±0.0%)	0.96±0.02	0±0/1671 (0.0±0.0%)
All	All	0.72	0/19280 (0.0%)	0.96	7/26090 (0.0%)

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	0.1±0.3
2	B	0.0±0.0	0.4±0.5
All	All	0	5

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	120	ARG	NE-CZ-NH1	7.46	124.03	120.30	2	2
1	A	410	ARG	NE-CZ-NH1	6.35	123.48	120.30	4	2
2	B	172	ARG	NE-CZ-NH1	6.24	123.42	120.30	9	1
1	A	384	ARG	NE-CZ-NH1	5.78	123.19	120.30	5	1
1	A	406	ARG	NE-CZ-NH1	5.04	122.82	120.30	3	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)
2	B	175	TYR	Sidechain	4

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Group	Models (Total)
1	A	384	ARG	Sidechain	1

## 6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	675	659	658	0±0
2	B	1213	1202	1202	0±0
All	All	18880	18610	18600	6

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:346:GLU:CD	2:B:88:LEU:HD21	0.50	2.26	4	2
1:A:402:LEU:HD22	1:A:414:VAL:HG13	0.49	1.84	9	3
2:B:86:LEU:HD23	2:B:102:PHE:CD1	0.42	2.49	7	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	87/94 (93%)	84±1 (96±1%)	2±1 (3±1%)	1±1 (1±1%)	19	65
2	B	150/174 (86%)	139±2 (93±1%)	9±2 (6±2%)	2±1 (1±1%)	23	70
All	All	2370/2680 (88%)	2227 (94%)	117 (5%)	26 (1%)	21	68

All 8 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	396	ALA	7
2	B	120	ARG	5
2	B	93	ASP	4
2	B	203	LYS	3
1	A	355	ALA	3
2	B	35	ILE	2
1	A	354	SER	1
2	B	38	ILE	1

### 6.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	71/76 (93%)	58±2 (81±3%)	13±2 (19±3%)	5	38
2	B	136/155 (88%)	110±3 (81±2%)	26±3 (19±2%)	4	36
All	All	2070/2310 (90%)	1674 (81%)	396 (19%)	5	37

All 100 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)
2	B	123	VAL	10
1	A	350	LEU	10
2	B	202	TRP	10
2	B	174	SER	10
2	B	181	PHE	9
1	A	401	LEU	8
1	A	346	GLU	8
2	B	120	ARG	8
2	B	119	ASN	8
1	A	375	SER	8
1	A	421	SER	8
1	A	386	LEU	8
1	A	374	ASP	8
2	B	141	LYS	8
1	A	413	LEU	7
2	B	47	SER	7
2	B	184	ASP	7

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Models (Total)
2	B	203	LYS	7
2	B	139	ILE	7
2	B	43	LYS	7
2	B	108	VAL	7
2	B	159	LEU	7
1	A	420	GLU	7
1	A	398	LEU	7
2	B	200	LYS	6
2	B	170	LEU	6
1	A	392	THR	6
2	B	134	ARG	6
1	A	399	ASP	6
2	B	80	SER	6
2	B	138	LYS	5
1	A	412	ASP	5
2	B	96	SER	5
2	B	41	LEU	5
2	B	89	ASP	5
2	B	102	PHE	5
2	B	167	LYS	5
2	B	185	ASP	5
2	B	176	SER	5
2	B	179	SER	5
2	B	79	CYS	4
2	B	36	GLN	4
2	B	111	ARG	4
2	B	39	GLN	4
2	B	117	ARG	4
2	B	152	ARG	4
2	B	142	THR	4
1	A	406	ARG	4
2	B	157	GLU	4
1	A	416	SER	4
1	A	362	LEU	3
1	A	371	GLU	3
2	B	99	LYS	3
2	B	37	GLU	3
1	A	368	TYR	3
1	A	343	LYS	3
1	A	384	ARG	2
2	B	34	SER	2
2	B	38	ILE	2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Models (Total)
2	B	188	ASP	2
2	B	135	LYS	2
2	B	76	THR	2
2	B	100	GLN	2
2	B	86	LEU	2
2	B	46	GLU	2
2	B	186	LYS	2
2	B	126	MET	2
2	B	95	GLU	2
2	B	180	ARG	2
2	B	140	ASP	2
2	B	44	ASP	2
2	B	155	GLU	2
1	A	372	HIS	2
2	B	42	ASP	1
1	A	378	HIS	1
2	B	132	THR	1
2	B	109	GLU	1
1	A	358	THR	1
1	A	387	LEU	1
1	A	405	LEU	1
2	B	75	LEU	1
2	B	115	SER	1
1	A	345	GLU	1
2	B	91	THR	1
1	A	389	SER	1
1	A	418	CYS	1
2	B	69	ASN	1
2	B	106	GLU	1
1	A	349	LYS	1
2	B	113	LYS	1
2	B	77	LEU	1
2	B	154	GLU	1
1	A	395	SER	1
2	B	93	ASP	1
1	A	360	ARG	1
1	A	397	THR	1
2	B	40	GLU	1
2	B	127	LYS	1
1	A	336	TYR	1
1	A	414	VAL	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 79% for the well-defined parts and 79% for the entire structure.

### 7.1 Chemical shift list 1

File name: 2n80\_cs.str

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	1011
Number of shifts mapped to atoms	1011
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	6

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	94	$0.21 \pm 0.15$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}_\beta$	89	$1.07 \pm 0.12$	Should be applied
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	89	$0.57 \pm 0.26$	Should be applied

#### 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 29%, i.e. 859 atoms were assigned a chemical shift out of a possible 2931. 17 out of 40 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	343/1170 (29%)	171/466 (37%)	88/476 (18%)	84/228 (37%)
Sidechain	461/1540 (30%)	283/903 (31%)	174/570 (31%)	4/67 (6%)

*Continued on next page...*

Continued from previous page...

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	55/221 (25%)	29/116 (25%)	24/95 (25%)	2/10 (20%)
Overall	859/2931 (29%)	483/1485 (33%)	286/1141 (25%)	90/305 (30%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 27%, i.e. 899 atoms were assigned a chemical shift out of a possible 3288. 18 out of 47 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	365/1316 (28%)	182/524 (35%)	94/536 (18%)	89/256 (35%)
Sidechain	479/1743 (27%)	291/1021 (29%)	184/644 (29%)	4/78 (5%)
Aromatic	55/229 (24%)	29/120 (24%)	24/99 (24%)	2/10 (20%)
Overall	899/3288 (27%)	502/1665 (30%)	302/1279 (24%)	95/344 (28%)

#### 7.1.4 Statistically unusual chemical shifts ⓘ

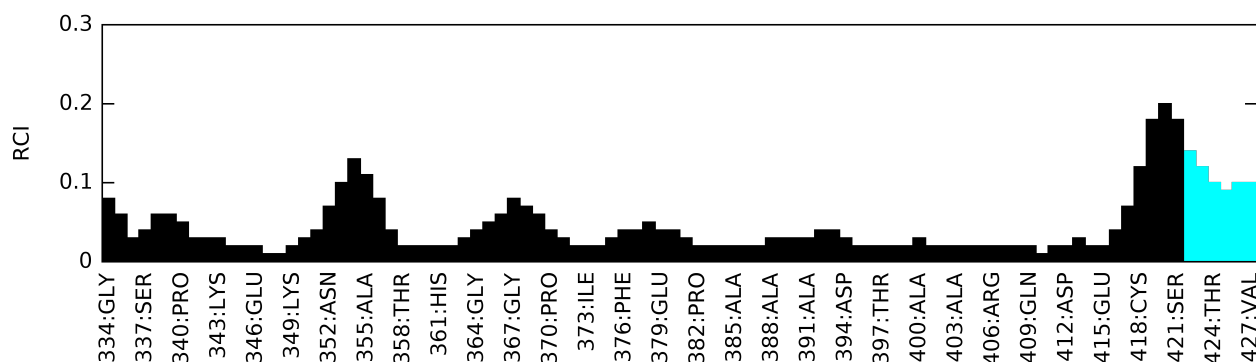
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	396	ALA	HB3	-0.20	2.61 – 0.11	-6.2
1	A	396	ALA	HB1	-0.20	2.61 – 0.11	-6.2
1	A	396	ALA	HB2	-0.20	2.61 – 0.11	-6.2
1	A	360	ARG	HG2	-0.08	2.92 – 0.22	-6.1
1	A	382	PRO	HB3	-0.14	3.81 – 0.21	-6.0
1	A	360	ARG	HG3	-0.02	3.00 – 0.10	-5.4

#### 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:



## 7.2 Chemical shift list 2

File name: 2n80\_cs.str

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	1838
Number of shifts mapped to atoms	1838
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

### 7.2.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	171	$0.69 \pm 0.11$	Should be applied
$^{13}\text{C}_\beta$	160	$0.54 \pm 0.17$	Should be applied
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	153	$-0.50 \pm 0.22$	Should be applied

### 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 50%, i.e. 1453 atoms were assigned a chemical shift out of a possible 2931. 23 out of 40 assigned methyl groups (LEU and VAL) were assigned

stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	553/1170 (47%)	276/466 (59%)	147/476 (31%)	130/228 (57%)
Sidechain	783/1540 (51%)	474/903 (52%)	305/570 (54%)	4/67 (6%)
Aromatic	117/221 (53%)	61/116 (53%)	53/95 (56%)	3/10 (30%)
Overall	1453/2931 (50%)	811/1485 (55%)	505/1141 (44%)	137/305 (45%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 52%, i.e. 1702 atoms were assigned a chemical shift out of a possible 3288. 29 out of 47 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	647/1316 (49%)	323/524 (62%)	171/536 (32%)	153/256 (60%)
Sidechain	930/1743 (53%)	564/1021 (55%)	360/644 (56%)	6/78 (8%)
Aromatic	125/229 (55%)	65/120 (54%)	57/99 (58%)	3/10 (30%)
Overall	1702/3288 (52%)	952/1665 (57%)	588/1279 (46%)	162/344 (47%)

#### 7.2.4 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.

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
2	B	156	TYR	HB3	0.65	4.75 – 0.95	-5.8
2	B	192	TRP	HE1	7.28	12.85 – 7.35	-5.1

#### 7.2.5 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 B:

