



# Full wwPDB NMR Structure Validation Report ⓘ

Apr 27, 2016 – 05:47 AM BST

PDB ID : 2YUI  
Title : Solution structure of the N-terminal domain in human cytokine-induced apoptosis inhibitor anamorsin  
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Deposited on : 2007-04-06

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.

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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

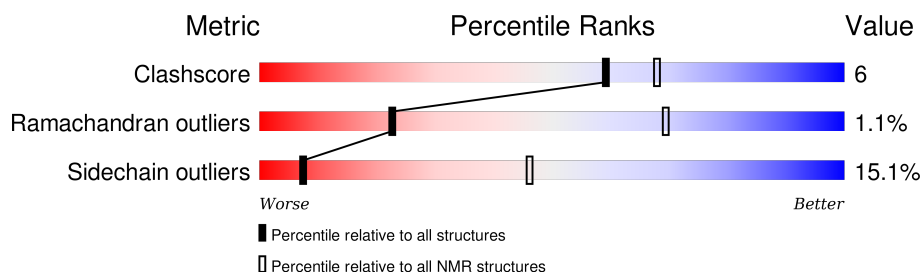
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment was not calculated.

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  $\geq 3$ , 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	182	 69% 13% 18%

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 15 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:12-A:58, A:62-A:107, A:116-A:171 (149)	0.43	15

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2718 atoms, of which 1370 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Anamorsin.

Mol	Chain	Residues	Atoms						Trace
1	A	182	Total	C	H	N	O	S	0
			2718	843	1370	231	271	3	

There are 12 discrepancies between the modelled and reference sequences:

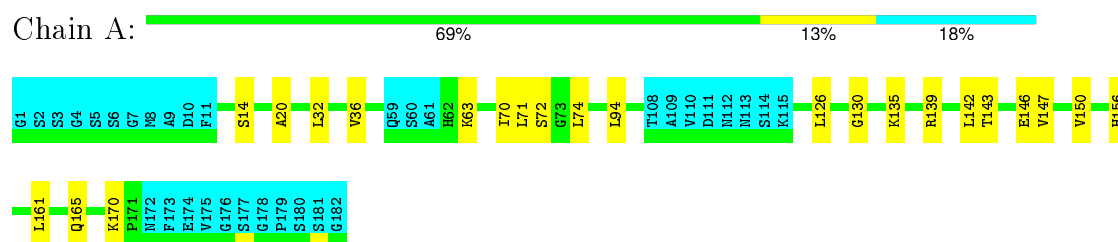
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	EXPRESSION TAG	UNP Q6FI81
A	2	SER	-	EXPRESSION TAG	UNP Q6FI81
A	3	SER	-	EXPRESSION TAG	UNP Q6FI81
A	4	GLY	-	EXPRESSION TAG	UNP Q6FI81
A	5	SER	-	EXPRESSION TAG	UNP Q6FI81
A	6	SER	-	EXPRESSION TAG	UNP Q6FI81
A	7	GLY	-	EXPRESSION TAG	UNP Q6FI81
A	178	GLY	-	EXPRESSION TAG	UNP Q6FI81
A	179	PRO	-	EXPRESSION TAG	UNP Q6FI81
A	180	SER	-	EXPRESSION TAG	UNP Q6FI81
A	181	SER	-	EXPRESSION TAG	UNP Q6FI81
A	182	GLY	-	EXPRESSION TAG	UNP Q6FI81

## 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: Anamorsin

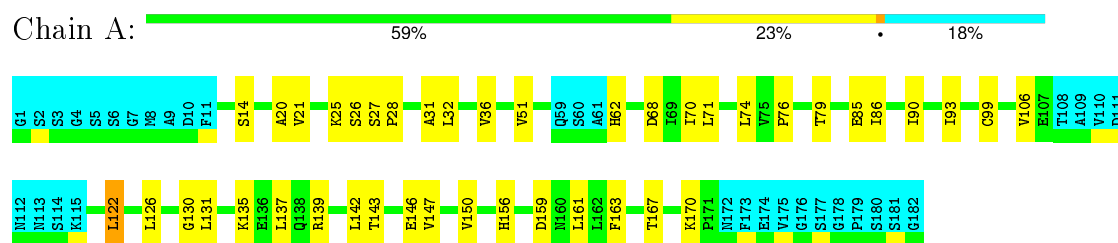


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

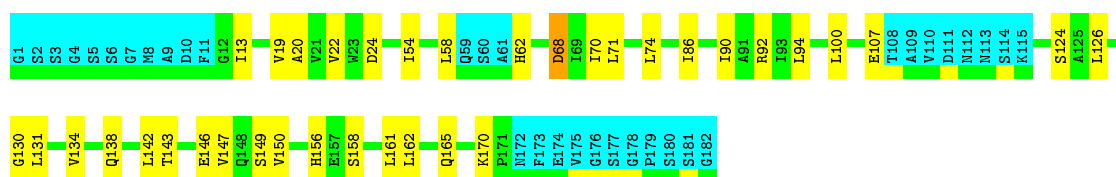
- Molecule 1: Anamorsin



#### 4.2.2 Score per residue for model 2

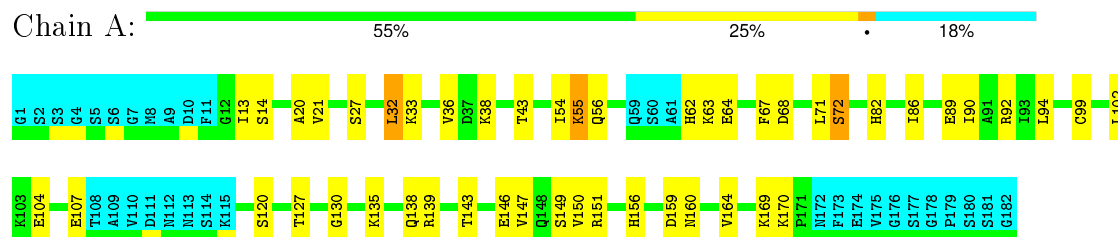
- Molecule 1: Anamorsin





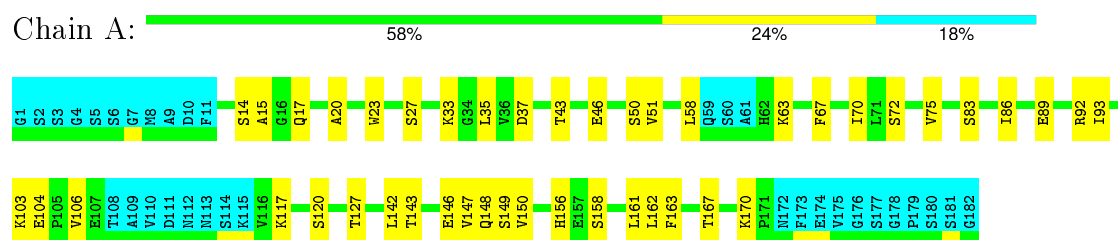
### 4.2.3 Score per residue for model 3

- Molecule 1: Anamorsin



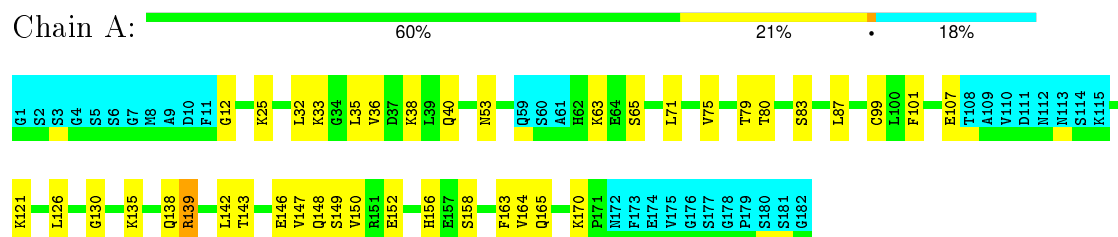
### 4.2.4 Score per residue for model 4

- Molecule 1: Anamorsin



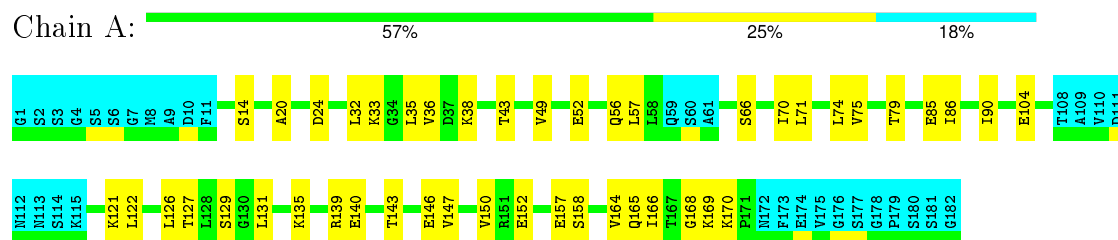
### 4.2.5 Score per residue for model 5

- Molecule 1: Anamorsin



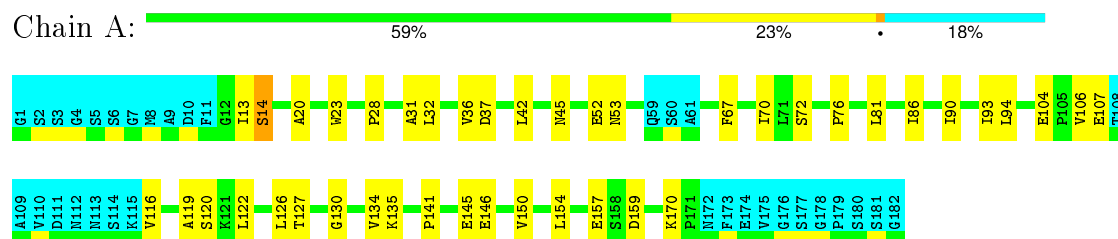
### 4.2.6 Score per residue for model 6

- Molecule 1: Anamorsin



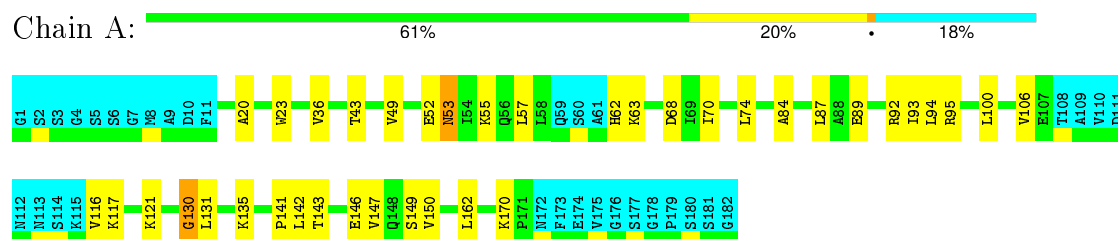
#### 4.2.7 Score per residue for model 7

- Molecule 1: Anamorsin



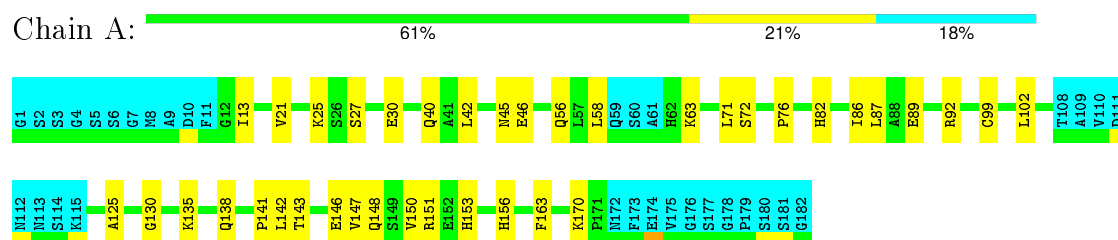
#### 4.2.8 Score per residue for model 8

- Molecule 1: Anamorsin



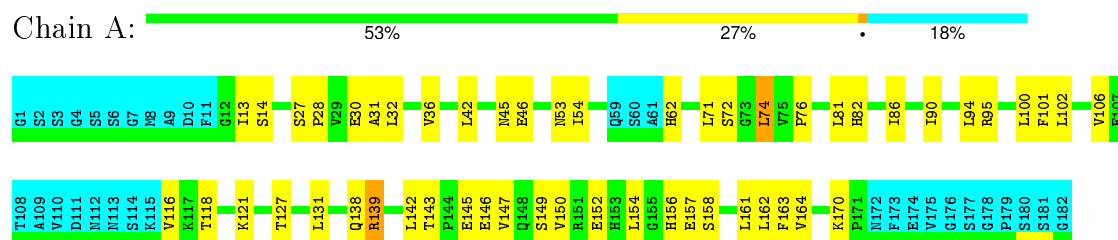
#### 4.2.9 Score per residue for model 9

- Molecule 1: Anamorsin



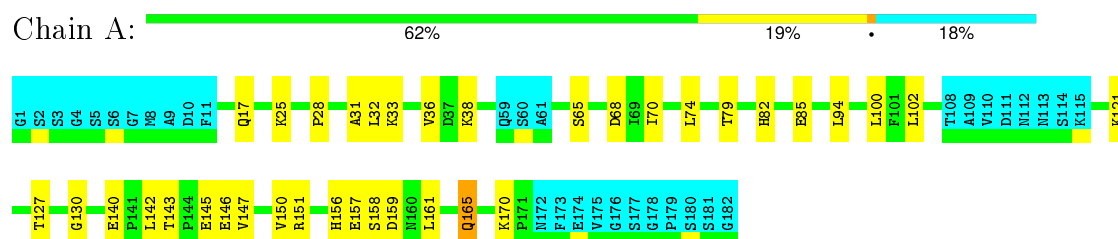
## 4.2.10 Score per residue for model 10

- Molecule 1: Anamorsin



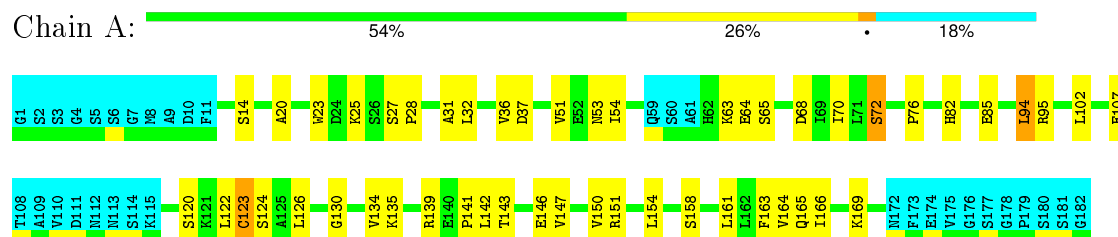
## 4.2.11 Score per residue for model 11

- Molecule 1: Anamorsin



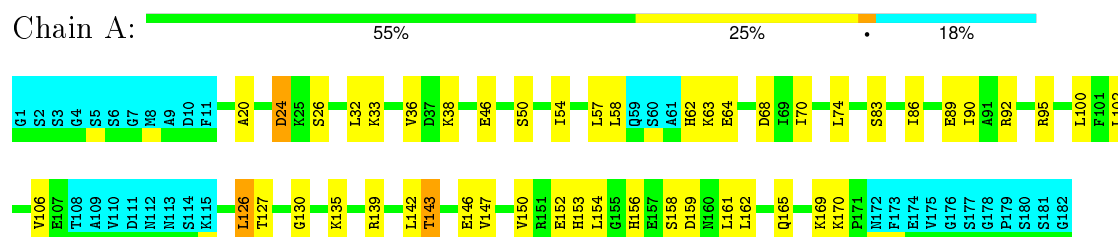
## 4.2.12 Score per residue for model 12

- Molecule 1: Anamorsin



## 4.2.13 Score per residue for model 13

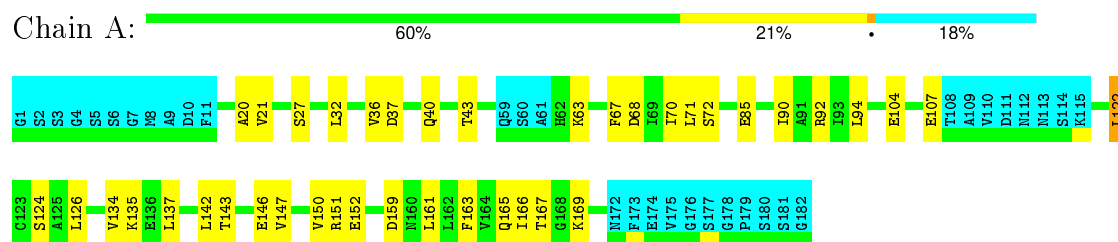
- Molecule 1: Anamorsin





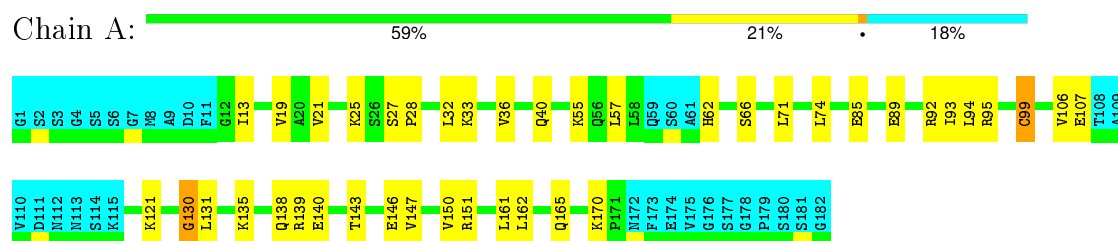
### 4.2.14 Score per residue for model 14

- Molecule 1: Anamorsin



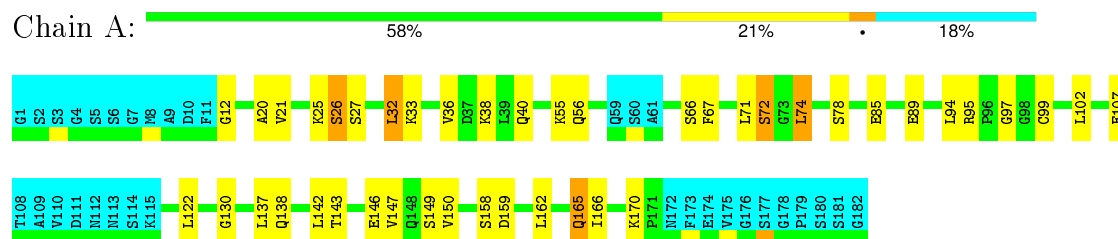
### 4.2.15 Score per residue for model 15 (medoid)

- Molecule 1: Anamorsin



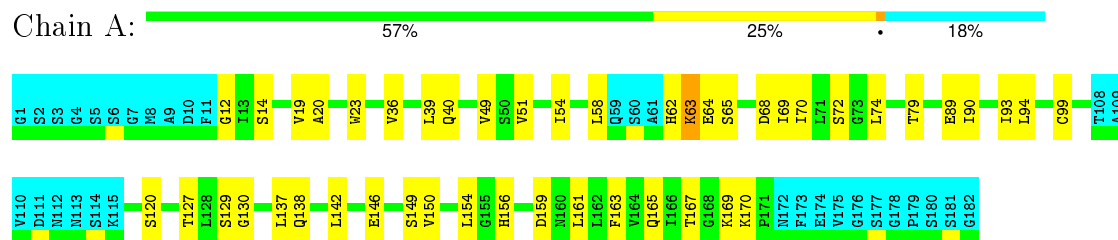
### 4.2.16 Score per residue for model 16

- Molecule 1: Anamorsin



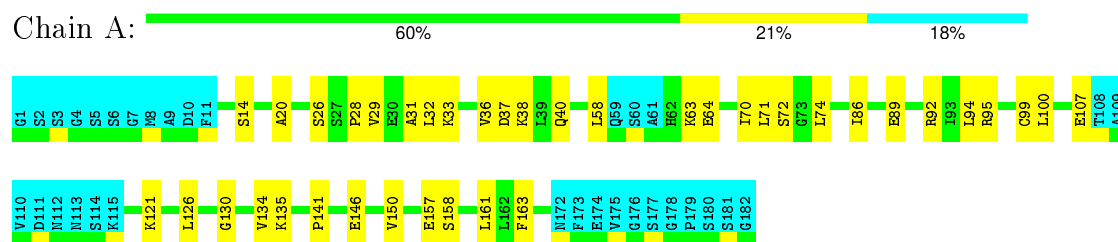
### 4.2.17 Score per residue for model 17

- Molecule 1: Anamorsin



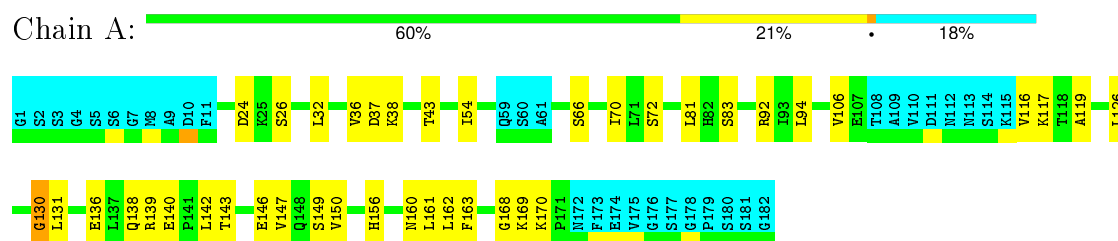
## 4.2.18 Score per residue for model 18

- Molecule 1: Anamorsin



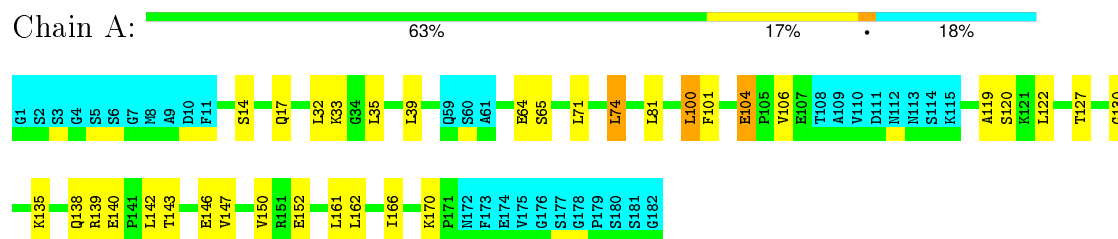
## 4.2.19 Score per residue for model 19

- Molecule 1: Anamorsin



## 4.2.20 Score per residue for model 20

- Molecule 1: Anamorsin



## 5 Refinement protocol and experimental data overview

Of the 100 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
CNS	structure solution	1.1
CNS	refinement	1.1

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.

## 6 Model quality ⓘ

### 6.1 Standard geometry ⓘ

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 ⓘ

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	1129	1178	1178	14±4
All	All	22580	23560	23560	270

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 6.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:LEU:HD21	1:A:86:ILE:HD13	0.90	1.41	2	3
1:A:20:ALA:HB3	1:A:70:ILE:HG23	0.83	1.50	18	9
1:A:81:LEU:HD21	1:A:116:VAL:HG22	0.81	1.52	19	2
1:A:143:THR:O	1:A:147:VAL:HG23	0.79	1.78	12	17
1:A:13:ILE:HD13	1:A:19:VAL:HG21	0.79	1.55	2	2
1:A:150:VAL:HG13	1:A:154:LEU:HD12	0.79	1.54	12	4
1:A:70:ILE:HD12	1:A:94:LEU:HD12	0.78	1.55	8	4
1:A:146:GLU:O	1:A:150:VAL:HG23	0.77	1.80	15	20
1:A:119:ALA:HB1	1:A:136:GLU:OE2	0.73	1.84	19	1
1:A:35:LEU:HD22	1:A:75:VAL:HG22	0.72	1.60	6	3
1:A:86:ILE:HG22	1:A:90:ILE:HD11	0.71	1.61	7	6
1:A:19:VAL:HG11	1:A:39:LEU:HD22	0.69	1.64	17	1
1:A:31:ALA:HB1	1:A:76:PRO:HG2	0.69	1.64	10	2
1:A:21:VAL:HG22	1:A:71:LEU:HD12	0.67	1.66	16	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:LEU:HD11	1:A:99:CYS:O	0.66	1.90	15	2
1:A:36:VAL:HG13	1:A:49:VAL:HG11	0.65	1.68	17	3
1:A:106:VAL:HG11	1:A:119:ALA:HB2	0.65	1.66	19	2
1:A:130:GLY:O	1:A:131:LEU:HD23	0.64	1.93	19	3
1:A:13:ILE:HD12	1:A:42:LEU:HD13	0.64	1.69	9	3
1:A:150:VAL:HG11	1:A:158:SER:OG	0.63	1.93	6	2
1:A:86:ILE:O	1:A:90:ILE:HD12	0.62	1.94	13	1
1:A:122:LEU:HD23	1:A:166:ILE:HD12	0.62	1.69	16	3
1:A:32:LEU:O	1:A:36:VAL:HG23	0.62	1.93	12	14
1:A:28:PRO:HG2	1:A:31:ALA:HB3	0.61	1.70	11	4
1:A:71:LEU:HD22	1:A:74:LEU:HD13	0.61	1.70	10	5
1:A:126:LEU:HB2	1:A:134:VAL:HG11	0.61	1.72	18	4
1:A:74:LEU:HD21	1:A:165:GLN:OE1	0.61	1.96	11	1
1:A:20:ALA:HB2	1:A:67:PHE:CD2	0.60	2.31	14	3
1:A:71:LEU:HD23	1:A:101:PHE:HB2	0.60	1.72	10	2
1:A:100:LEU:HD23	1:A:131:LEU:HD11	0.59	1.72	2	2
1:A:142:LEU:HD23	1:A:163:PHE:CD2	0.59	2.32	19	4
1:A:81:LEU:HD21	1:A:116:VAL:HG13	0.59	1.74	7	1
1:A:100:LEU:HD13	1:A:101:PHE:N	0.59	2.13	20	1
1:A:142:LEU:HD11	1:A:161:LEU:HB2	0.59	1.74	14	9
1:A:24:ASP:OD2	1:A:54:ILE:HG21	0.58	1.99	2	2
1:A:70:ILE:O	1:A:100:LEU:HD12	0.58	1.99	13	3
1:A:81:LEU:CD2	1:A:116:VAL:HG22	0.58	2.28	19	1
1:A:29:VAL:HG12	1:A:33:LYS:HE3	0.57	1.76	18	1
1:A:62:HIS:HB2	1:A:93:ILE:HD12	0.56	1.77	1	3
1:A:106:VAL:HG21	1:A:119:ALA:HB2	0.56	1.76	7	1
1:A:72:SER:O	1:A:102:LEU:HD12	0.56	2.00	12	4
1:A:26:SER:HG	1:A:153:HIS:CG	0.56	2.19	13	1
1:A:20:ALA:HB2	1:A:67:PHE:CE1	0.55	2.37	16	1
1:A:68:ASP:O	1:A:94:LEU:HD11	0.55	2.00	17	2
1:A:137:LEU:HD21	1:A:167:THR:HG22	0.55	1.79	17	1
1:A:139:ARG:HB3	1:A:162:LEU:HD21	0.55	1.78	15	1
1:A:139:ARG:CG	1:A:164:VAL:HG12	0.55	2.32	10	1
1:A:137:LEU:HD11	1:A:167:THR:HB	0.55	1.77	1	2
1:A:79:THR:O	1:A:154:LEU:HD11	0.54	2.02	17	1
1:A:22:VAL:HG23	1:A:71:LEU:O	0.54	2.02	2	1
1:A:106:VAL:CG1	1:A:122:LEU:HD22	0.54	2.32	1	1
1:A:23:TRP:CD1	1:A:51:VAL:HG12	0.53	2.39	12	2
1:A:93:ILE:HG22	1:A:93:ILE:O	0.53	2.03	7	1
1:A:71:LEU:HB3	1:A:74:LEU:HD12	0.53	1.79	18	1
1:A:70:ILE:HD12	1:A:94:LEU:CD1	0.53	2.34	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:79:THR:HG23	1:A:146:GLU:OE1	0.53	2.04	6	1
1:A:24:ASP:OD1	1:A:54:ILE:HG21	0.53	2.04	19	1
1:A:54:ILE:HD11	1:A:82:HIS:CD2	0.52	2.38	12	2
1:A:106:VAL:HG22	1:A:162:LEU:O	0.52	2.05	13	6
1:A:158:SER:OG	1:A:161:LEU:HD11	0.52	2.04	18	4
1:A:20:ALA:O	1:A:71:LEU:HD12	0.52	2.05	2	1
1:A:94:LEU:HD23	1:A:170:LYS:HG3	0.52	1.81	7	2
1:A:58:LEU:HD11	1:A:86:ILE:CD1	0.52	2.34	9	1
1:A:15:ALA:HB1	1:A:46:GLU:HB2	0.51	1.82	4	1
1:A:137:LEU:HD21	1:A:167:THR:CG2	0.51	2.36	17	1
1:A:63:LYS:H	1:A:93:ILE:HG23	0.51	1.65	17	1
1:A:122:LEU:HD23	1:A:166:ILE:CD1	0.50	2.37	6	2
1:A:104:GLU:HB2	1:A:122:LEU:HD21	0.50	1.84	6	1
1:A:69:ILE:HG23	1:A:99:CYS:O	0.50	2.06	17	1
1:A:86:ILE:HG22	1:A:90:ILE:CD1	0.50	2.37	7	2
1:A:70:ILE:HD13	1:A:90:ILE:HG23	0.49	1.83	14	1
1:A:126:LEU:HD22	1:A:131:LEU:CD1	0.49	2.38	1	1
1:A:35:LEU:CD2	1:A:75:VAL:HG22	0.48	2.34	6	1
1:A:107:GLU:OE1	1:A:161:LEU:HD23	0.48	2.08	15	1
1:A:82:HIS:CE1	1:A:102:LEU:HD11	0.48	2.44	9	2
1:A:94:LEU:HD22	1:A:100:LEU:HB2	0.48	1.85	2	1
1:A:21:VAL:O	1:A:51:VAL:HG13	0.48	2.09	1	1
1:A:142:LEU:HD23	1:A:162:LEU:HA	0.48	1.86	16	1
1:A:13:ILE:HD13	1:A:19:VAL:CG2	0.47	2.35	2	1
1:A:131:LEU:HD13	1:A:168:GLY:HA3	0.47	1.86	19	2
1:A:84:ALA:HA	1:A:87:LEU:HD12	0.47	1.86	8	1
1:A:139:ARG:HG2	1:A:164:VAL:HG12	0.46	1.86	6	3
1:A:87:LEU:HD22	1:A:126:LEU:CD2	0.46	2.41	5	1
1:A:126:LEU:HD22	1:A:131:LEU:HD12	0.46	1.86	6	1
1:A:167:THR:O	1:A:167:THR:HG23	0.45	2.11	17	2
1:A:81:LEU:HD23	1:A:104:GLU:OE1	0.45	2.11	20	1
1:A:102:LEU:HD22	1:A:126:LEU:HD11	0.45	1.86	13	1
1:A:71:LEU:HD23	1:A:101:PHE:CB	0.45	2.40	10	1
1:A:58:LEU:HD22	1:A:89:GLU:OE1	0.45	2.12	13	1
1:A:79:THR:HG21	1:A:150:VAL:HG22	0.45	1.88	17	1
1:A:142:LEU:CD2	1:A:163:PHE:CD2	0.45	3.00	19	2
1:A:67:PHE:CD1	1:A:93:ILE:CG2	0.45	3.00	4	1
1:A:70:ILE:CD1	1:A:94:LEU:HD12	0.45	2.41	7	1
1:A:70:ILE:HD13	1:A:90:ILE:CG2	0.44	2.42	14	2
1:A:142:LEU:HD23	1:A:163:PHE:CD1	0.44	2.48	5	1
1:A:142:LEU:HD21	1:A:161:LEU:HB2	0.44	1.89	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:PHE:N	1:A:67:PHE:CD1	0.44	2.85	4	1
1:A:94:LEU:HD13	1:A:100:LEU:HD13	0.43	1.89	18	1
1:A:126:LEU:HB3	1:A:131:LEU:HD12	0.43	1.90	19	1
1:A:106:VAL:HG13	1:A:122:LEU:HD22	0.43	1.90	1	1
1:A:54:ILE:HG23	1:A:55:LYS:N	0.43	2.28	3	1
1:A:87:LEU:CD1	1:A:125:ALA:HB1	0.42	2.44	9	1
1:A:94:LEU:HD23	1:A:170:LYS:CG	0.42	2.44	7	1
1:A:13:ILE:HG22	1:A:14:SER:N	0.42	2.29	3	2
1:A:23:TRP:HE1	1:A:51:VAL:HG12	0.42	1.75	4	1
1:A:141:PRO:O	1:A:142:LEU:HD22	0.41	2.14	9	1
1:A:150:VAL:HG11	1:A:161:LEU:HD11	0.41	1.92	18	1
1:A:106:VAL:HG11	1:A:119:ALA:N	0.41	2.29	7	1
1:A:137:LEU:HD12	1:A:165:GLN:NE2	0.41	2.30	16	1
1:A:123:CYS:SG	1:A:134:VAL:HG12	0.41	2.55	12	1
1:A:116:VAL:HG12	1:A:117:LYS:N	0.41	2.29	8	1
1:A:139:ARG:HG2	1:A:164:VAL:HG13	0.41	1.93	12	1
1:A:122:LEU:CD2	1:A:166:ILE:HD12	0.41	2.46	14	1
1:A:52:GLU:HB3	1:A:57:LEU:HD12	0.41	1.93	6	1
1:A:62:HIS:O	1:A:62:HIS:CD2	0.41	2.74	17	2
1:A:20:ALA:CB	1:A:70:ILE:HG23	0.41	2.41	1	1
1:A:146:GLU:OE2	1:A:163:PHE:CE1	0.40	2.75	12	1
1:A:70:ILE:HD12	1:A:94:LEU:HB2	0.40	1.93	12	1
1:A:23:TRP:CE2	1:A:53:ASN:OD1	0.40	2.75	8	1
1:A:23:TRP:CD1	1:A:52:GLU:O	0.40	2.75	7	2
1:A:54:ILE:HD11	1:A:82:HIS:CE1	0.40	2.52	10	1
1:A:160:ASN:O	1:A:161:LEU:HD23	0.40	2.17	19	1
1:A:58:LEU:HD23	1:A:89:GLU:HG3	0.40	1.92	17	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	149/182 (82%)	136±2 (91±1%)	11±2 (8±2%)	2±1 (1±1%)	23	69
All	All	2980/3640 (82%)	2724 (91%)	224 (8%)	32 (1%)	23	69

All 7 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	130	GLY	16
1	A	141	PRO	4
1	A	28	PRO	3
1	A	12	GLY	3
1	A	76	PRO	3
1	A	26	SER	2
1	A	97	GLY	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	128/152 (84%)	109±4 (85±3%)	19±4 (15±3%)	7	46
All	All	2560/3040 (84%)	2174 (85%)	386 (15%)	7	46

All 76 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	170	LYS	15
1	A	135	LYS	13
1	A	156	HIS	11
1	A	165	GLN	10
1	A	63	LYS	10
1	A	72	SER	10
1	A	138	GLN	10
1	A	92	ARG	10
1	A	149	SER	9
1	A	27	SER	9
1	A	127	THR	9
1	A	33	LYS	9
1	A	14	SER	9
1	A	38	LYS	8
1	A	107	GLU	8
1	A	159	ASP	8
1	A	74	LEU	8

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Mol	Chain	Res	Type	Models (Total)
1	A	68	ASP	8
1	A	40	GLN	7
1	A	121	LYS	7
1	A	25	LYS	7
1	A	95	ARG	7
1	A	89	GLU	7
1	A	169	LYS	7
1	A	85	GLU	7
1	A	64	GLU	6
1	A	37	ASP	6
1	A	152	GLU	6
1	A	43	THR	6
1	A	151	ARG	6
1	A	99	CYS	6
1	A	139	ARG	6
1	A	120	SER	6
1	A	140	GLU	5
1	A	104	GLU	5
1	A	53	ASN	5
1	A	158	SER	5
1	A	157	GLU	5
1	A	65	SER	5
1	A	163	PHE	4
1	A	56	GLN	4
1	A	55	LYS	4
1	A	83	SER	4
1	A	66	SER	4
1	A	79	THR	3
1	A	32	LEU	3
1	A	145	GLU	3
1	A	46	GLU	3
1	A	57	LEU	3
1	A	122	LEU	3
1	A	124	SER	3
1	A	94	LEU	3
1	A	148	GLN	3
1	A	62	HIS	3
1	A	26	SER	3
1	A	45	ASN	3
1	A	17	GLN	3
1	A	30	GLU	2
1	A	129	SER	2

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Mol	Chain	Res	Type	Models (Total)
1	A	162	LEU	2
1	A	50	SER	2
1	A	24	ASP	2
1	A	117	LYS	2
1	A	126	LEU	2
1	A	100	LEU	1
1	A	35	LEU	1
1	A	78	SER	1
1	A	142	LEU	1
1	A	103	LYS	1
1	A	80	THR	1
1	A	153	HIS	1
1	A	118	THR	1
1	A	123	CYS	1
1	A	160	ASN	1
1	A	54	ILE	1
1	A	143	THR	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 ⓘ

There are no chain breaks in this entry.

## 7 Chemical shift validation

No chemical shift data were provided