



Full wwPDB NMR Structure Validation Report ⓘ

Apr 26, 2016 – 09:01 PM BST

PDB ID : 2JNC
Title : Refined 3D NMR structure of ECD1 of mCRF-R2beta at pH 5
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Deposited on : 2007-01-08

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/NMRValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : rb-20027457
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027457

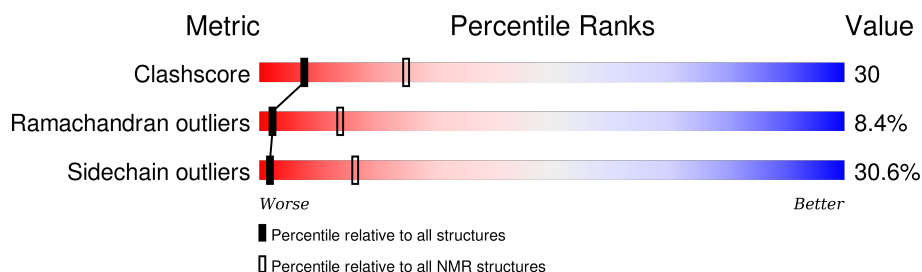
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment 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 ≥ 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	119	

2 Ensemble composition and analysis ⓘ

This entry contains 20 models. The atoms present in the NMR models are not consistent. Some calculations may have failed as a result. All residues are included in the validation scores. The authors have identified model 1 as representative, based on the following criterion: *lowest energy*. No medoid model was calculated.

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:59-A:119 (61)	Not calculated	Not calculated

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

NmrClust was unable to cluster the ensemble.

Error message: Inconsistent models in file

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1193 atoms, of which 569 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Corticotropin-releasing factor receptor 2.

Mol	Chain	Residues	Atoms						Trace
1	A	78	Total	C	H	N	O	S	0
			1193	390	569	109	119	6	

There are 24 discrepancies between the modelled and reference sequences:

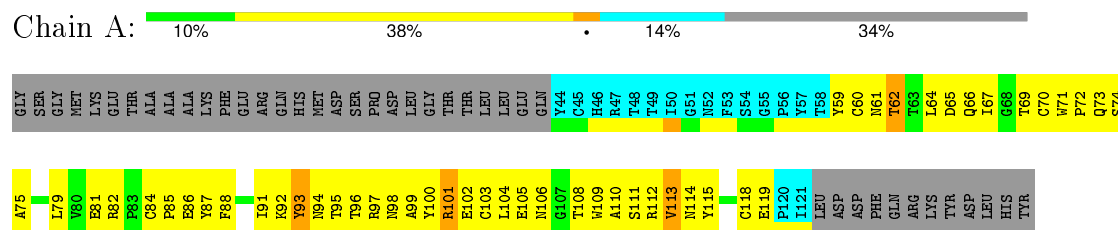
Chain	Residue	Modelled	Actual	Comment	Reference
A	15	GLY	-	CLONING ARTIFACT	UNP Q60748
A	16	SER	-	CLONING ARTIFACT	UNP Q60748
A	17	GLY	-	CLONING ARTIFACT	UNP Q60748
A	18	MET	-	CLONING ARTIFACT	UNP Q60748
A	19	LYS	-	CLONING ARTIFACT	UNP Q60748
A	20	GLU	-	CLONING ARTIFACT	UNP Q60748
A	21	THR	-	CLONING ARTIFACT	UNP Q60748
A	22	ALA	-	CLONING ARTIFACT	UNP Q60748
A	23	ALA	-	CLONING ARTIFACT	UNP Q60748
A	24	ALA	-	CLONING ARTIFACT	UNP Q60748
A	25	LYS	-	CLONING ARTIFACT	UNP Q60748
A	26	PHE	-	CLONING ARTIFACT	UNP Q60748
A	27	GLU	-	CLONING ARTIFACT	UNP Q60748
A	28	ARG	-	CLONING ARTIFACT	UNP Q60748
A	29	GLN	-	CLONING ARTIFACT	UNP Q60748
A	30	HIS	-	CLONING ARTIFACT	UNP Q60748
A	31	MET	-	CLONING ARTIFACT	UNP Q60748
A	32	ASP	-	CLONING ARTIFACT	UNP Q60748
A	33	SER	-	CLONING ARTIFACT	UNP Q60748
A	34	PRO	-	CLONING ARTIFACT	UNP Q60748
A	35	ASP	-	CLONING ARTIFACT	UNP Q60748
A	36	LEU	-	CLONING ARTIFACT	UNP Q60748
A	37	GLY	-	CLONING ARTIFACT	UNP Q60748
A	38	THR	-	CLONING ARTIFACT	UNP Q60748

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Corticotropin-releasing factor receptor 2

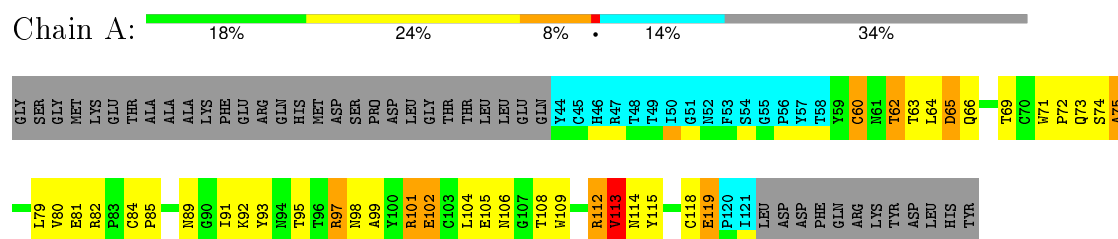


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

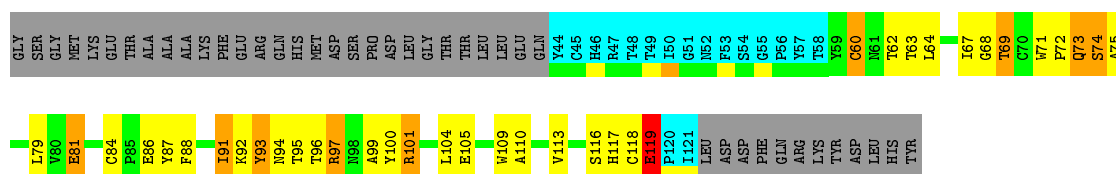
- Molecule 1: Corticotropin-releasing factor receptor 2



4.2.2 Score per residue for model 2

- Molecule 1: Corticotropin-releasing factor receptor 2

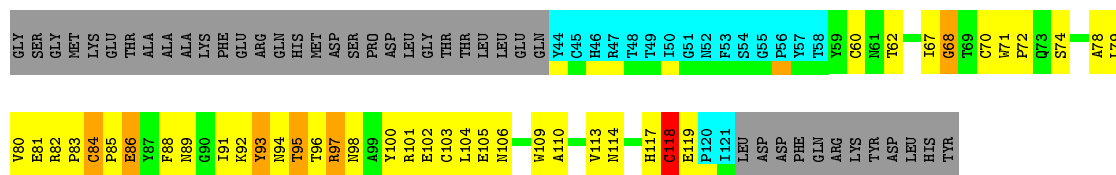




4.2.3 Score per residue for model 3

- Molecule 1: Corticotropin-releasing factor receptor 2

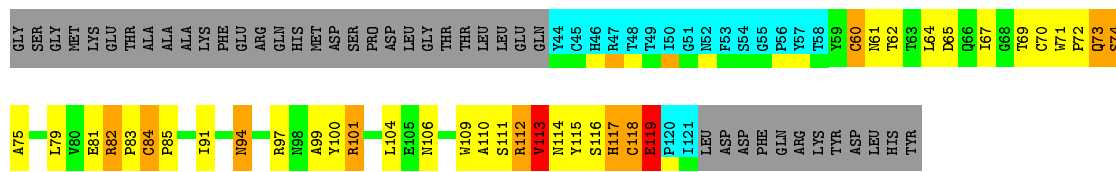
Chain A: 17% 29% 5% 14% 34%



4.2.4 Score per residue for model 4

- Molecule 1: Corticotropin-releasing factor receptor 2

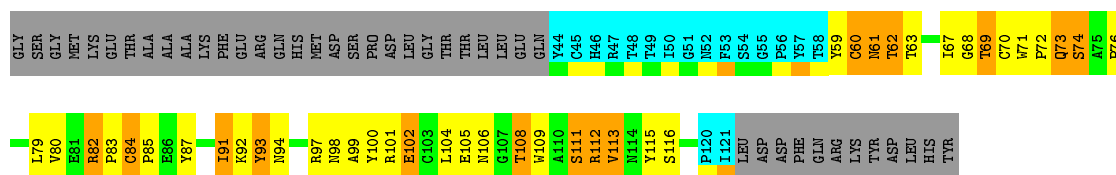
Chain A: 19% 22% 8% 14% 34%



4.2.5 Score per residue for model 5

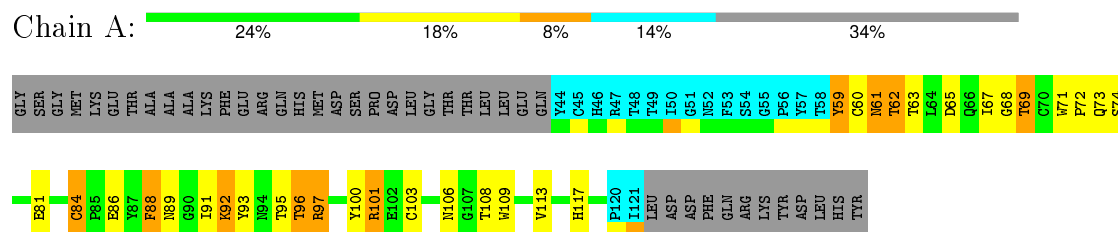
- Molecule 1: Corticotropin-releasing factor receptor 2

Chain A: 17% 22% 13% 14% 34%



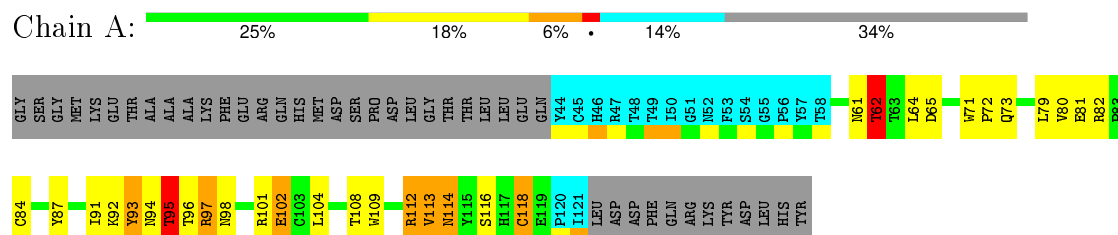
4.2.6 Score per residue for model 6

- Molecule 1: Corticotropin-releasing factor receptor 2



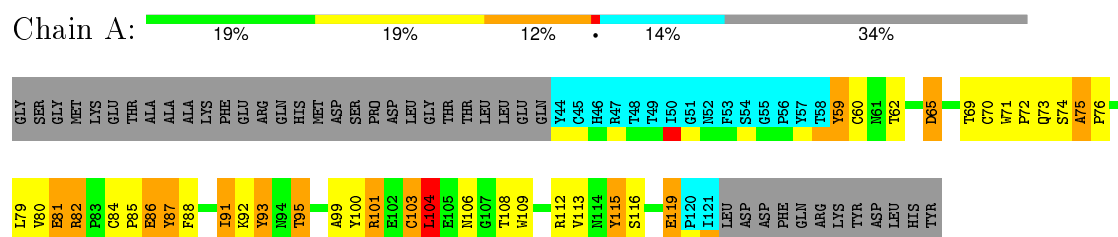
4.2.7 Score per residue for model 7

- Molecule 1: Corticotropin-releasing factor receptor 2



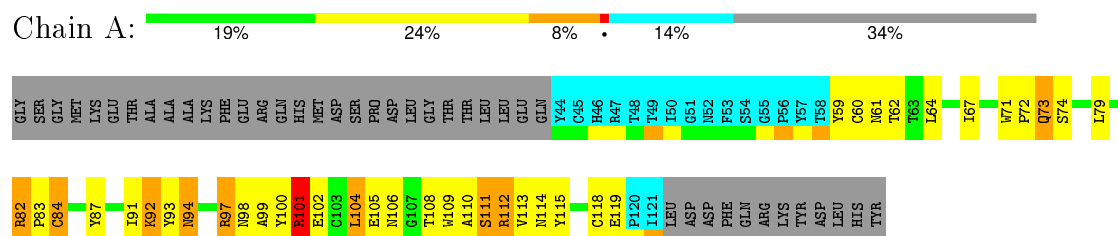
4.2.8 Score per residue for model 8

- Molecule 1: Corticotropin-releasing factor receptor 2



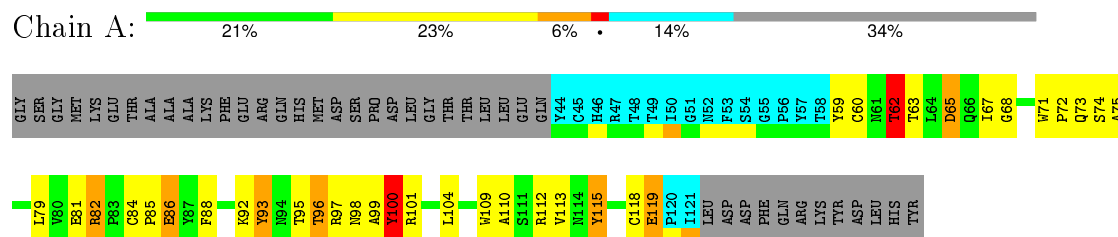
4.2.9 Score per residue for model 9

- Molecule 1: Corticotropin-releasing factor receptor 2



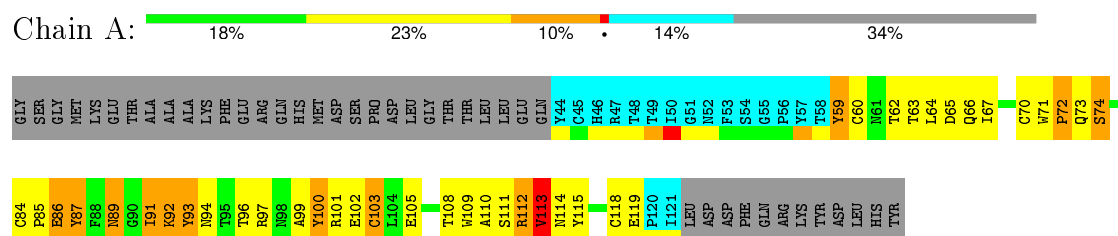
4.2.10 Score per residue for model 10

- Molecule 1: Corticotropin-releasing factor receptor 2



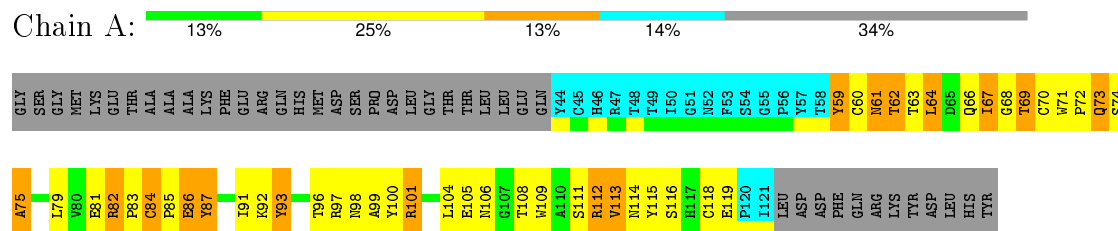
4.2.11 Score per residue for model 11

- Molecule 1: Corticotropin-releasing factor receptor 2



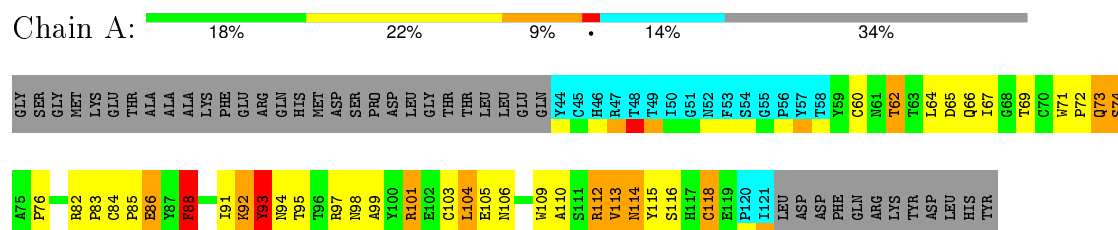
4.2.12 Score per residue for model 12

- Molecule 1: Corticotropin-releasing factor receptor 2



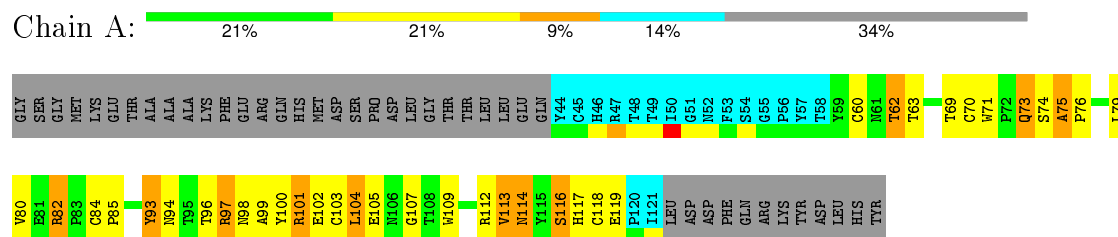
4.2.13 Score per residue for model 13

- Molecule 1: Corticotropin-releasing factor receptor 2



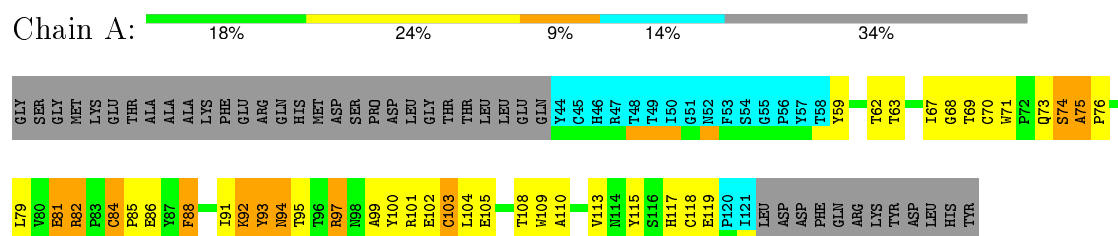
4.2.14 Score per residue for model 14

- Molecule 1: Corticotropin-releasing factor receptor 2



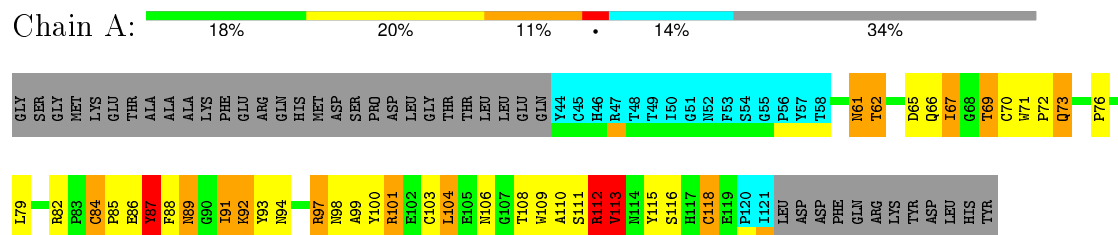
4.2.15 Score per residue for model 15

- Molecule 1: Corticotropin-releasing factor receptor 2



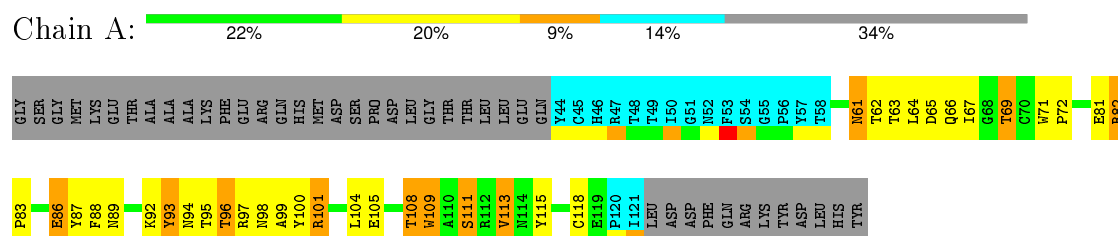
4.2.16 Score per residue for model 16

- Molecule 1: Corticotropin-releasing factor receptor 2



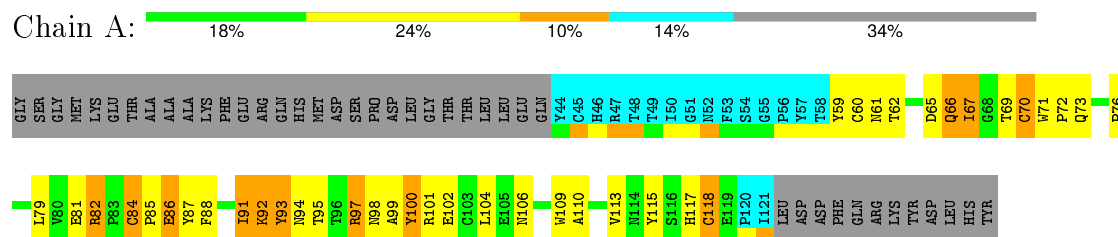
4.2.17 Score per residue for model 17

- Molecule 1: Corticotropin-releasing factor receptor 2



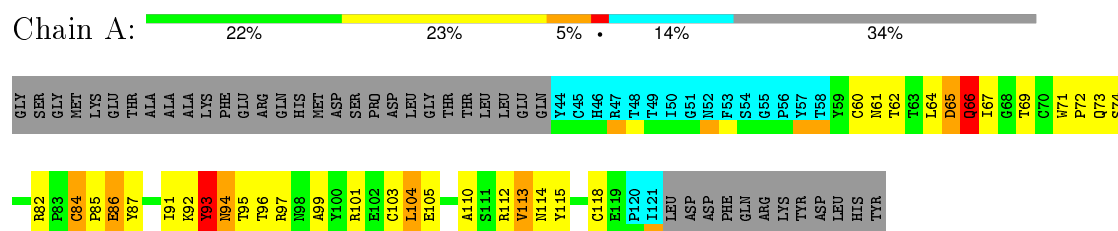
4.2.18 Score per residue for model 18

- Molecule 1: Corticotropin-releasing factor receptor 2



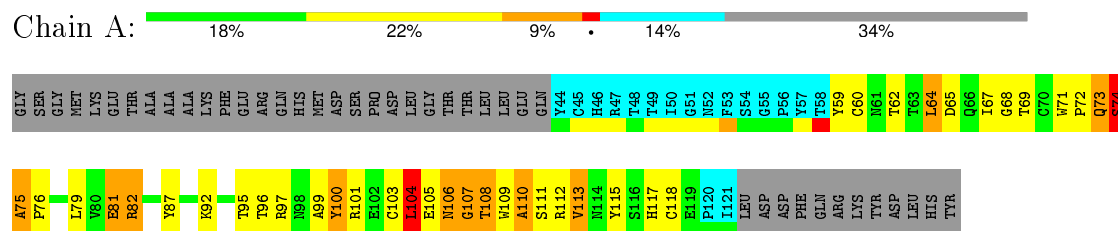
4.2.19 Score per residue for model 19

- Molecule 1: Corticotropin-releasing factor receptor 2



4.2.20 Score per residue for model 20

- Molecule 1: Corticotropin-releasing factor receptor 2



5 Refinement protocol and experimental data overview ⓘ

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
CYANA	structure solution	1.0.6
CYANA	refinement	1.0.6

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	489	443	442	28±5
All	All	9771	8847	8826	551

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 30.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:99:ALA:HB1	1:A:113:VAL:HG23	0.84	1.46	9	6
1:A:86:GLU:HB3	1:A:95:THR:HG22	0.80	1.51	18	1
1:A:82:ARG:CD	1:A:99:ALA:HB3	0.78	2.08	20	3
1:A:86:GLU:HB2	1:A:95:THR:HG22	0.74	1.58	10	1
1:A:66:GLN:CG	1:A:113:VAL:HG21	0.71	2.16	19	1
1:A:80:VAL:HB	1:A:101:ARG:CZ	0.71	2.15	14	1
1:A:82:ARG:O	1:A:99:ALA:HB3	0.71	1.84	13	2
1:A:104:LEU:CD1	1:A:110:ALA:HB2	0.70	2.16	10	4
1:A:71:TRP:CZ2	1:A:101:ARG:HG3	0.69	2.22	15	4
1:A:79:LEU:HD21	1:A:100:TYR:HB3	0.69	1.64	4	8
1:A:67:ILE:HD13	1:A:113:VAL:CG2	0.69	2.17	5	1
1:A:79:LEU:HD13	1:A:80:VAL:N	0.69	2.02	7	1
1:A:64:LEU:HD13	1:A:65:ASP:N	0.69	2.01	17	2
1:A:99:ALA:HB1	1:A:113:VAL:CG2	0.68	2.18	14	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:82:ARG:HD2	1:A:99:ALA:HB3	0.68	1.66	20	1
1:A:63:THR:HG22	1:A:109:TRP:CD1	0.68	2.23	6	7
1:A:92:LYS:HE2	1:A:95:THR:HG21	0.66	1.67	8	1
1:A:67:ILE:HG23	1:A:85:PRO:HB3	0.66	1.65	4	1
1:A:84:CYS:SG	1:A:85:PRO:HD2	0.66	2.31	18	3
1:A:71:TRP:CZ2	1:A:101:ARG:HD2	0.66	2.26	2	1
1:A:66:GLN:HE22	1:A:113:VAL:HG11	0.66	1.51	18	1
1:A:91:ILE:HD13	1:A:93:TYR:CE1	0.66	2.26	1	1
1:A:67:ILE:HD12	1:A:69:THR:CG2	0.65	2.22	5	1
1:A:71:TRP:HB3	1:A:109:TRP:CZ2	0.64	2.28	16	11
1:A:82:ARG:HD3	1:A:99:ALA:HB3	0.64	1.68	12	3
1:A:88:PHE:CD1	1:A:118:CYS:SG	0.64	2.91	15	1
1:A:91:ILE:HG23	1:A:93:TYR:CD1	0.63	2.28	7	2
1:A:95:THR:HA	1:A:117:HIS:CE1	0.63	2.28	15	1
1:A:112:ARG:O	1:A:113:VAL:HG12	0.63	1.94	5	4
1:A:82:ARG:HB3	1:A:83:PRO:HD2	0.62	1.69	3	1
1:A:98:ASN:HB2	1:A:100:TYR:CZ	0.62	2.29	18	2
1:A:86:GLU:HG3	1:A:95:THR:HG23	0.62	1.71	3	1
1:A:66:GLN:HG2	1:A:113:VAL:HG21	0.62	1.70	19	1
1:A:67:ILE:HG12	1:A:115:TYR:CZ	0.62	2.29	20	1
1:A:101:ARG:NH2	1:A:113:VAL:HG11	0.61	2.09	2	2
1:A:67:ILE:HD13	1:A:113:VAL:HG21	0.61	1.71	5	1
1:A:60:CYS:SG	1:A:74:SER:HB3	0.61	2.35	12	6
1:A:79:LEU:HD21	1:A:100:TYR:CB	0.61	2.25	10	2
1:A:67:ILE:HD12	1:A:115:TYR:CE2	0.61	2.31	13	1
1:A:103:CYS:HA	1:A:109:TRP:HA	0.61	1.71	20	3
1:A:93:TYR:CE1	1:A:118:CYS:SG	0.61	2.94	3	1
1:A:88:PHE:O	1:A:91:ILE:HG22	0.61	1.96	8	1
1:A:69:THR:HG21	1:A:82:ARG:HG2	0.60	1.72	18	1
1:A:87:TYR:O	1:A:87:TYR:CG	0.60	2.54	16	1
1:A:91:ILE:HD12	1:A:93:TYR:CZ	0.60	2.31	12	1
1:A:64:LEU:HD22	1:A:69:THR:O	0.60	1.95	17	1
1:A:91:ILE:HD13	1:A:93:TYR:CZ	0.60	2.31	1	1
1:A:71:TRP:HB3	1:A:109:TRP:CE2	0.60	2.31	12	5
1:A:62:THR:HG22	1:A:70:CYS:SG	0.59	2.37	15	1
1:A:69:THR:OG1	1:A:82:ARG:NH1	0.59	2.34	12	3
1:A:93:TYR:CE1	1:A:94:ASN:HB2	0.59	2.32	19	1
1:A:104:LEU:HD12	1:A:110:ALA:HB2	0.59	1.75	13	1
1:A:86:GLU:HG3	1:A:91:ILE:HG13	0.58	1.75	18	1
1:A:107:GLY:O	1:A:108:THR:HG23	0.58	1.98	20	1
1:A:71:TRP:CH2	1:A:101:ARG:HG3	0.58	2.32	16	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:86:GLU:CB	1:A:95:THR:HG22	0.58	2.26	10	1
1:A:71:TRP:CE2	1:A:101:ARG:HD2	0.58	2.34	20	3
1:A:101:ARG:CZ	1:A:111:SER:HA	0.58	2.28	5	1
1:A:101:ARG:HD2	1:A:109:TRP:CE3	0.57	2.34	6	1
1:A:71:TRP:CZ3	1:A:101:ARG:CZ	0.57	2.86	14	1
1:A:92:LYS:O	1:A:93:TYR:HB3	0.57	1.98	13	1
1:A:92:LYS:O	1:A:92:LYS:HG2	0.57	2.00	13	1
1:A:69:THR:CG2	1:A:82:ARG:HG3	0.57	2.30	16	1
1:A:71:TRP:CH2	1:A:101:ARG:HB2	0.57	2.34	6	5
1:A:103:CYS:O	1:A:103:CYS:SG	0.57	2.63	13	1
1:A:91:ILE:HG23	1:A:93:TYR:CE1	0.57	2.34	7	2
1:A:74:SER:O	1:A:75:ALA:CB	0.56	2.53	12	2
1:A:79:LEU:C	1:A:79:LEU:HD23	0.56	2.21	14	2
1:A:99:ALA:HB2	1:A:115:TYR:CE1	0.56	2.35	19	1
1:A:95:THR:O	1:A:97:ARG:HD2	0.56	2.01	7	1
1:A:82:ARG:CZ	1:A:82:ARG:HB2	0.56	2.31	12	1
1:A:93:TYR:N	1:A:93:TYR:CD1	0.56	2.74	11	1
1:A:85:PRO:HB3	1:A:88:PHE:CD1	0.56	2.36	8	1
1:A:69:THR:CG2	1:A:71:TRP:CZ2	0.56	2.88	2	3
1:A:86:GLU:HA	1:A:93:TYR:CE1	0.56	2.36	3	1
1:A:95:THR:HB	1:A:118:CYS:SG	0.56	2.40	7	1
1:A:81:GLU:HG3	1:A:100:TYR:CZ	0.56	2.36	2	1
1:A:99:ALA:HB1	1:A:113:VAL:HG22	0.56	1.77	1	1
1:A:62:THR:HA	1:A:71:TRP:O	0.55	2.01	5	18
1:A:100:TYR:CE1	1:A:114:ASN:HB2	0.55	2.37	11	1
1:A:103:CYS:SG	1:A:109:TRP:CD2	0.55	2.99	15	2
1:A:91:ILE:HD12	1:A:93:TYR:CD1	0.55	2.37	18	1
1:A:84:CYS:HB2	1:A:117:HIS:CG	0.55	2.37	15	1
1:A:84:CYS:HB3	1:A:85:PRO:HD2	0.55	1.76	12	2
1:A:101:ARG:HH21	1:A:113:VAL:HG11	0.55	1.62	2	1
1:A:93:TYR:CG	1:A:94:ASN:N	0.55	2.75	19	2
1:A:71:TRP:CB	1:A:109:TRP:CZ2	0.55	2.90	16	1
1:A:67:ILE:HD12	1:A:69:THR:HG21	0.55	1.79	5	1
1:A:92:LYS:HE2	1:A:93:TYR:CZ	0.54	2.37	18	2
1:A:69:THR:HG21	1:A:71:TRP:CZ2	0.54	2.37	1	5
1:A:91:ILE:HB	1:A:93:TYR:CE2	0.54	2.37	5	2
1:A:86:GLU:CG	1:A:95:THR:HG23	0.54	2.32	3	1
1:A:60:CYS:SG	1:A:109:TRP:CE2	0.54	3.01	20	1
1:A:97:ARG:HD3	1:A:118:CYS:HA	0.54	1.80	12	2
1:A:59:TYR:CD2	1:A:73:GLN:HB3	0.54	2.38	12	1
1:A:71:TRP:CZ2	1:A:101:ARG:HD3	0.54	2.38	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:PHE:CG	1:A:118:CYS:SG	0.54	3.01	15	1
1:A:71:TRP:CD2	1:A:101:ARG:HD3	0.53	2.38	18	2
1:A:62:THR:HA	1:A:72:PRO:HA	0.53	1.79	18	18
1:A:91:ILE:HG12	1:A:93:TYR:CE2	0.53	2.38	6	1
1:A:99:ALA:HB2	1:A:115:TYR:CZ	0.53	2.38	19	1
1:A:104:LEU:HD13	1:A:110:ALA:HB2	0.53	1.80	15	1
1:A:79:LEU:HD23	1:A:80:VAL:N	0.53	2.18	14	2
1:A:91:ILE:HG13	1:A:93:TYR:CE1	0.53	2.38	15	1
1:A:79:LEU:HD12	1:A:102:GLU:OE2	0.52	2.04	5	1
1:A:67:ILE:HG12	1:A:101:ARG:NH2	0.52	2.18	2	1
1:A:97:ARG:CZ	1:A:118:CYS:HA	0.52	2.35	3	1
1:A:101:ARG:NH2	1:A:113:VAL:HG21	0.52	2.19	2	1
1:A:104:LEU:HD23	1:A:106:ASN:HD21	0.52	1.65	13	1
1:A:91:ILE:CG1	1:A:93:TYR:CE1	0.52	2.92	15	1
1:A:82:ARG:NH1	1:A:83:PRO:O	0.52	2.42	17	1
1:A:67:ILE:HD12	1:A:69:THR:HB	0.52	1.82	12	1
1:A:71:TRP:CZ3	1:A:80:VAL:HG13	0.52	2.40	1	1
1:A:102:GLU:HB2	1:A:111:SER:HB2	0.52	1.81	9	1
1:A:104:LEU:CD2	1:A:110:ALA:HB2	0.51	2.35	4	2
1:A:97:ARG:HD3	1:A:118:CYS:HB2	0.51	1.82	17	1
1:A:65:ASP:CG	1:A:101:ARG:NH2	0.51	2.64	10	1
1:A:60:CYS:O	1:A:73:GLN:HA	0.51	2.05	4	2
1:A:91:ILE:HD12	1:A:93:TYR:HD1	0.51	1.64	18	1
1:A:101:ARG:HG2	1:A:109:TRP:CZ3	0.51	2.40	17	1
1:A:84:CYS:SG	1:A:97:ARG:HB2	0.51	2.46	19	3
1:A:71:TRP:CE3	1:A:101:ARG:CZ	0.51	2.94	14	1
1:A:87:TYR:HB2	1:A:95:THR:HG21	0.51	1.83	18	1
1:A:113:VAL:HB	1:A:115:TYR:CZ	0.51	2.40	20	1
1:A:100:TYR:O	1:A:113:VAL:HA	0.51	2.06	8	1
1:A:67:ILE:O	1:A:69:THR:N	0.51	2.44	12	6
1:A:74:SER:O	1:A:75:ALA:HB3	0.51	2.05	8	3
1:A:101:ARG:NH1	1:A:110:ALA:O	0.50	2.39	20	5
1:A:113:VAL:HG11	1:A:115:TYR:CE2	0.50	2.41	4	1
1:A:93:TYR:CD1	1:A:93:TYR:N	0.50	2.79	18	1
1:A:65:ASP:O	1:A:67:ILE:N	0.50	2.43	17	2
1:A:94:ASN:HB3	1:A:119:GLU:O	0.50	2.06	15	1
1:A:104:LEU:HB2	1:A:108:THR:O	0.50	2.07	8	2
1:A:84:CYS:HA	1:A:115:TYR:CE1	0.50	2.41	19	1
1:A:64:LEU:HD21	1:A:67:ILE:O	0.50	2.06	11	1
1:A:92:LYS:CE	1:A:93:TYR:CZ	0.50	2.95	9	1
1:A:87:TYR:CD2	1:A:92:LYS:HG3	0.49	2.41	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:ASN:HB3	1:A:97:ARG:NH2	0.49	2.21	3	1
1:A:81:GLU:HG2	1:A:100:TYR:CD2	0.49	2.42	20	1
1:A:59:TYR:CG	1:A:73:GLN:HB3	0.49	2.42	12	1
1:A:91:ILE:HD12	1:A:93:TYR:HE1	0.49	1.67	7	1
1:A:113:VAL:HG13	1:A:114:ASN:N	0.49	2.22	14	2
1:A:91:ILE:HB	1:A:93:TYR:CZ	0.49	2.43	5	1
1:A:117:HIS:O	1:A:119:GLU:N	0.49	2.45	4	2
1:A:62:THR:CA	1:A:72:PRO:HA	0.49	2.38	7	4
1:A:71:TRP:CZ3	1:A:101:ARG:HB3	0.49	2.43	17	1
1:A:91:ILE:HG22	1:A:93:TYR:HE2	0.49	1.68	16	1
1:A:61:ASN:O	1:A:62:THR:C	0.49	2.49	12	3
1:A:69:THR:HG21	1:A:82:ARG:HG3	0.49	1.83	19	2
1:A:67:ILE:HD11	1:A:115:TYR:CZ	0.49	2.42	17	1
1:A:86:GLU:O	1:A:88:PHE:N	0.49	2.45	17	1
1:A:71:TRP:CZ2	1:A:101:ARG:HB2	0.49	2.43	6	1
1:A:76:PRO:CB	1:A:104:LEU:O	0.49	2.61	20	1
1:A:59:TYR:CG	1:A:73:GLN:HB2	0.49	2.43	6	1
1:A:66:GLN:HG3	1:A:113:VAL:HG21	0.49	1.84	19	1
1:A:71:TRP:CZ2	1:A:101:ARG:CG	0.48	2.96	16	1
1:A:91:ILE:HG12	1:A:93:TYR:CD2	0.48	2.43	6	1
1:A:92:LYS:HE3	1:A:92:LYS:O	0.48	2.08	11	1
1:A:64:LEU:HD13	1:A:64:LEU:C	0.48	2.29	11	1
1:A:60:CYS:HA	1:A:107:GLY:O	0.48	2.08	14	1
1:A:93:TYR:O	1:A:94:ASN:HB2	0.48	2.09	5	1
1:A:86:GLU:O	1:A:87:TYR:CB	0.48	2.61	11	2
1:A:97:ARG:NE	1:A:117:HIS:O	0.48	2.42	2	1
1:A:69:THR:OG1	1:A:82:ARG:NE	0.48	2.34	18	1
1:A:102:GLU:HB2	1:A:111:SER:CB	0.48	2.38	9	1
1:A:74:SER:O	1:A:75:ALA:HB2	0.48	2.09	20	5
1:A:101:ARG:NH2	1:A:109:TRP:HB3	0.48	2.23	15	1
1:A:65:ASP:HB3	1:A:101:ARG:CZ	0.48	2.39	7	2
1:A:68:GLY:HA3	1:A:88:PHE:CG	0.48	2.44	3	1
1:A:79:LEU:HD23	1:A:79:LEU:C	0.48	2.28	5	1
1:A:103:CYS:HB2	1:A:109:TRP:CZ3	0.48	2.44	16	2
1:A:79:LEU:HD13	1:A:79:LEU:C	0.48	2.30	7	1
1:A:91:ILE:HD12	1:A:93:TYR:CE1	0.48	2.43	7	1
1:A:101:ARG:HD3	1:A:109:TRP:CZ3	0.48	2.43	14	1
1:A:85:PRO:HB2	1:A:88:PHE:CD1	0.47	2.43	10	1
1:A:104:LEU:HD13	1:A:105:GLU:OE1	0.47	2.08	14	1
1:A:112:ARG:O	1:A:113:VAL:HG22	0.47	2.09	13	1
1:A:102:GLU:HB3	1:A:110:ALA:HB3	0.47	1.86	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:ILE:HD11	1:A:115:TYR:CE2	0.47	2.44	17	1
1:A:70:CYS:O	1:A:82:ARG:NH2	0.47	2.42	16	1
1:A:114:ASN:O	1:A:116:SER:N	0.47	2.44	12	2
1:A:98:ASN:O	1:A:114:ASN:HB3	0.47	2.09	1	2
1:A:67:ILE:HD13	1:A:99:ALA:HB3	0.47	1.86	18	1
1:A:104:LEU:HB2	1:A:108:THR:HG23	0.47	1.86	1	1
1:A:82:ARG:HG3	1:A:99:ALA:HB3	0.47	1.86	17	1
1:A:71:TRP:CH2	1:A:82:ARG:HG3	0.47	2.45	4	3
1:A:71:TRP:CE3	1:A:82:ARG:HG3	0.47	2.45	3	1
1:A:101:ARG:NH1	1:A:111:SER:HA	0.47	2.24	11	2
1:A:99:ALA:HB1	1:A:113:VAL:HB	0.47	1.86	19	1
1:A:85:PRO:CD	1:A:115:TYR:HB2	0.47	2.40	11	1
1:A:96:THR:C	1:A:97:ARG:HD2	0.47	2.30	6	1
1:A:91:ILE:CD1	1:A:93:TYR:CD2	0.47	2.97	8	1
1:A:104:LEU:N	1:A:108:THR:O	0.47	2.48	5	5
1:A:79:LEU:HD21	1:A:100:TYR:HB2	0.47	1.85	10	1
1:A:59:TYR:HB3	1:A:75:ALA:HA	0.47	1.86	10	1
1:A:94:ASN:ND2	1:A:118:CYS:O	0.47	2.47	9	1
1:A:60:CYS:O	1:A:73:GLN:HG3	0.47	2.09	2	3
1:A:97:ARG:NH1	1:A:117:HIS:O	0.47	2.41	18	1
1:A:60:CYS:SG	1:A:74:SER:CB	0.47	3.03	5	2
1:A:85:PRO:HG2	1:A:88:PHE:HB3	0.47	1.87	13	1
1:A:71:TRP:CH2	1:A:101:ARG:CB	0.47	2.97	16	1
1:A:89:ASN:ND2	1:A:89:ASN:O	0.47	2.48	11	1
1:A:76:PRO:C	1:A:105:GLU:HA	0.47	2.30	15	2
1:A:88:PHE:O	1:A:89:ASN:HB2	0.47	2.10	6	1
1:A:71:TRP:CH2	1:A:82:ARG:CG	0.46	2.98	16	1
1:A:82:ARG:HB2	1:A:99:ALA:HB3	0.46	1.87	19	1
1:A:93:TYR:CD1	1:A:93:TYR:C	0.46	2.89	2	2
1:A:61:ASN:O	1:A:109:TRP:NE1	0.46	2.40	17	1
1:A:91:ILE:HA	1:A:93:TYR:CE1	0.46	2.45	11	1
1:A:69:THR:HG22	1:A:71:TRP:CE2	0.46	2.45	2	2
1:A:91:ILE:CG1	1:A:93:TYR:CE2	0.46	2.98	6	1
1:A:92:LYS:CE	1:A:92:LYS:O	0.46	2.62	7	1
1:A:110:ALA:O	1:A:111:SER:C	0.46	2.54	9	1
1:A:68:GLY:O	1:A:69:THR:HB	0.46	2.11	2	1
1:A:82:ARG:O	1:A:99:ALA:N	0.46	2.48	1	2
1:A:86:GLU:OE2	1:A:95:THR:HG22	0.46	2.11	13	1
1:A:91:ILE:HG22	1:A:93:TYR:CE2	0.46	2.45	16	1
1:A:101:ARG:HA	1:A:101:ARG:CZ	0.46	2.41	16	1
1:A:92:LYS:HE2	1:A:93:TYR:CE2	0.46	2.46	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:108:THR:OG1	1:A:109:TRP:N	0.46	2.46	1	2
1:A:92:LYS:O	1:A:92:LYS:CE	0.46	2.64	15	1
1:A:59:TYR:HA	1:A:75:ALA:HA	0.46	1.86	20	1
1:A:59:TYR:CB	1:A:73:GLN:HB2	0.46	2.41	12	1
1:A:59:TYR:CG	1:A:73:GLN:CB	0.46	2.99	12	1
1:A:67:ILE:HG21	1:A:85:PRO:HG3	0.46	1.87	11	1
1:A:70:CYS:O	1:A:72:PRO:HD3	0.46	2.11	8	3
1:A:73:GLN:O	1:A:73:GLN:HG2	0.46	2.10	16	1
1:A:87:TYR:CD1	1:A:92:LYS:HB2	0.46	2.46	8	1
1:A:67:ILE:HD11	1:A:71:TRP:HZ2	0.45	1.70	3	1
1:A:69:THR:O	1:A:69:THR:HG23	0.45	2.10	13	1
1:A:86:GLU:HB2	1:A:95:THR:HG23	0.45	1.87	3	1
1:A:114:ASN:OD1	1:A:117:HIS:NE2	0.45	2.42	3	1
1:A:97:ARG:O	1:A:117:HIS:CD2	0.45	2.69	15	1
1:A:81:GLU:HG2	1:A:100:TYR:CD1	0.45	2.46	12	1
1:A:79:LEU:HD21	1:A:100:TYR:CD1	0.45	2.46	8	1
1:A:79:LEU:HG	1:A:100:TYR:CD1	0.45	2.46	9	1
1:A:82:ARG:O	1:A:98:ASN:HA	0.45	2.12	12	1
1:A:99:ALA:CB	1:A:113:VAL:HG23	0.45	2.33	9	1
1:A:64:LEU:HD22	1:A:65:ASP:N	0.45	2.26	13	2
1:A:101:ARG:CG	1:A:113:VAL:HG13	0.45	2.42	6	1
1:A:113:VAL:HG13	1:A:115:TYR:H	0.45	1.72	1	1
1:A:79:LEU:HD12	1:A:102:GLU:OE1	0.45	2.11	14	1
1:A:86:GLU:HG3	1:A:91:ILE:CG1	0.45	2.40	18	1
1:A:92:LYS:HD3	1:A:92:LYS:O	0.45	2.11	6	1
1:A:101:ARG:NH1	1:A:111:SER:OG	0.45	2.50	17	1
1:A:91:ILE:HD11	1:A:93:TYR:CD2	0.45	2.47	8	1
1:A:86:GLU:CA	1:A:95:THR:HB	0.45	2.42	13	1
1:A:69:THR:OG1	1:A:82:ARG:HD3	0.45	2.11	8	1
1:A:92:LYS:HG2	1:A:92:LYS:O	0.44	2.11	7	1
1:A:67:ILE:HG12	1:A:115:TYR:CB	0.44	2.42	10	1
1:A:69:THR:HG21	1:A:82:ARG:HH11	0.44	1.71	4	1
1:A:71:TRP:CE3	1:A:101:ARG:HG3	0.44	2.48	14	1
1:A:81:GLU:HA	1:A:100:TYR:HA	0.44	1.88	10	1
1:A:82:ARG:CB	1:A:99:ALA:HB3	0.44	2.41	10	1
1:A:97:ARG:NE	1:A:118:CYS:HA	0.44	2.26	2	1
1:A:78:ALA:O	1:A:103:CYS:N	0.44	2.45	3	1
1:A:94:ASN:CG	1:A:94:ASN:O	0.44	2.56	13	1
1:A:113:VAL:HG23	1:A:113:VAL:O	0.44	2.12	19	1
1:A:79:LEU:HD23	1:A:102:GLU:HG3	0.44	1.88	7	1
1:A:71:TRP:CH2	1:A:113:VAL:HG12	0.44	2.47	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:ASN:OD1	1:A:97:ARG:NH1	0.44	2.43	2	1
1:A:82:ARG:HD3	1:A:82:ARG:O	0.44	2.12	20	1
1:A:67:ILE:HD13	1:A:113:VAL:HG23	0.44	1.88	5	1
1:A:59:TYR:O	1:A:73:GLN:HA	0.44	2.12	5	1
1:A:79:LEU:HD12	1:A:102:GLU:HB2	0.44	1.89	1	1
1:A:63:THR:CG2	1:A:109:TRP:CD1	0.43	3.00	15	2
1:A:94:ASN:OD1	1:A:97:ARG:NH2	0.43	2.46	14	1
1:A:80:VAL:O	1:A:101:ARG:N	0.43	2.50	8	1
1:A:71:TRP:CZ3	1:A:82:ARG:HG2	0.43	2.48	7	1
1:A:65:ASP:HB3	1:A:101:ARG:NH2	0.43	2.27	11	2
1:A:59:TYR:HB3	1:A:74:SER:C	0.43	2.33	5	1
1:A:101:ARG:HG3	1:A:109:TRP:CE3	0.43	2.47	10	1
1:A:97:ARG:NH2	1:A:118:CYS:O	0.43	2.51	1	1
1:A:81:GLU:CG	1:A:100:TYR:CD2	0.43	3.02	20	1
1:A:92:LYS:C	1:A:93:TYR:CG	0.43	2.91	11	1
1:A:93:TYR:C	1:A:93:TYR:CD1	0.43	2.89	13	1
1:A:99:ALA:CB	1:A:115:TYR:HB3	0.43	2.43	8	1
1:A:101:ARG:HD3	1:A:109:TRP:HB3	0.43	1.89	7	1
1:A:71:TRP:CE3	1:A:101:ARG:NE	0.43	2.87	14	1
1:A:112:ARG:O	1:A:113:VAL:C	0.43	2.58	7	1
1:A:98:ASN:N	1:A:98:ASN:OD1	0.43	2.51	7	1
1:A:71:TRP:CE2	1:A:101:ARG:HD3	0.43	2.49	4	1
1:A:103:CYS:O	1:A:104:LEU:C	0.43	2.57	13	1
1:A:84:CYS:O	1:A:86:GLU:N	0.43	2.52	6	1
1:A:62:THR:CB	1:A:72:PRO:HA	0.43	2.44	13	1
1:A:84:CYS:HB3	1:A:85:PRO:CD	0.42	2.44	12	1
1:A:85:PRO:HD2	1:A:118:CYS:SG	0.42	2.54	12	1
1:A:92:LYS:CG	1:A:92:LYS:O	0.42	2.67	7	1
1:A:94:ASN:ND2	1:A:119:GLU:HB3	0.42	2.29	11	1
1:A:82:ARG:NH2	1:A:113:VAL:HB	0.42	2.28	9	1
1:A:117:HIS:ND1	1:A:117:HIS:O	0.42	2.45	15	1
1:A:59:TYR:O	1:A:60:CYS:HB2	0.42	2.13	8	1
1:A:75:ALA:HB1	1:A:76:PRO:HD2	0.42	1.91	8	1
1:A:96:THR:O	1:A:97:ARG:HG3	0.42	2.14	14	1
1:A:81:GLU:O	1:A:82:ARG:NE	0.42	2.47	8	1
1:A:69:THR:HG22	1:A:82:ARG:HG3	0.42	1.91	16	1
1:A:67:ILE:HD12	1:A:85:PRO:HB3	0.42	1.91	4	1
1:A:71:TRP:CE3	1:A:101:ARG:HB3	0.42	2.50	17	1
1:A:96:THR:OG1	1:A:97:ARG:NH1	0.42	2.50	17	2
1:A:91:ILE:HG13	1:A:93:TYR:CD1	0.42	2.49	2	1
1:A:95:THR:OG1	1:A:96:THR:N	0.42	2.52	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:ILE:CG1	1:A:101:ARG:NH2	0.42	2.82	2	1
1:A:71:TRP:O	1:A:109:TRP:NE1	0.42	2.51	1	1
1:A:71:TRP:CH2	1:A:101:ARG:CG	0.42	3.01	16	1
1:A:91:ILE:HD12	1:A:93:TYR:OH	0.42	2.15	12	1
1:A:71:TRP:CZ3	1:A:82:ARG:CG	0.42	3.02	7	1
1:A:114:ASN:OD1	1:A:114:ASN:N	0.42	2.48	7	1
1:A:84:CYS:HB2	1:A:97:ARG:O	0.42	2.14	9	1
1:A:69:THR:CG2	1:A:71:TRP:CE2	0.42	3.03	6	2
1:A:101:ARG:NH2	1:A:110:ALA:O	0.42	2.52	16	1
1:A:94:ASN:O	1:A:97:ARG:NH2	0.42	2.53	3	1
1:A:81:GLU:HG3	1:A:100:TYR:CE2	0.42	2.50	2	1
1:A:67:ILE:HG22	1:A:85:PRO:HB3	0.42	1.92	5	1
1:A:97:ARG:HB2	1:A:118:CYS:SG	0.42	2.55	13	1
1:A:73:GLN:O	1:A:73:GLN:CG	0.42	2.68	6	1
1:A:97:ARG:HG3	1:A:118:CYS:HA	0.42	1.90	18	1
1:A:67:ILE:HG21	1:A:115:TYR:CE2	0.42	2.49	19	1
1:A:71:TRP:HB3	1:A:109:TRP:CH2	0.42	2.50	3	1
1:A:86:GLU:CG	1:A:95:THR:HG22	0.42	2.44	10	1
1:A:84:CYS:HB2	1:A:98:ASN:HA	0.42	1.92	9	1
1:A:82:ARG:O	1:A:84:CYS:N	0.42	2.50	12	1
1:A:63:THR:OG1	1:A:64:LEU:N	0.42	2.52	12	1
1:A:83:PRO:HA	1:A:98:ASN:OD1	0.42	2.14	9	1
1:A:101:ARG:HA	1:A:112:ARG:HA	0.42	1.92	9	1
1:A:59:TYR:HA	1:A:76:PRO:HD3	0.42	1.91	18	1
1:A:93:TYR:CE1	1:A:94:ASN:CB	0.41	3.03	19	1
1:A:100:TYR:O	1:A:112:ARG:HB3	0.41	2.15	20	1
1:A:76:PRO:HA	1:A:103:CYS:O	0.41	2.16	13	1
1:A:85:PRO:O	1:A:86:GLU:HB2	0.41	2.15	8	1
1:A:98:ASN:O	1:A:118:CYS:HB2	0.41	2.16	16	1
1:A:71:TRP:CZ2	1:A:113:VAL:CG1	0.41	3.02	7	1
1:A:64:LEU:HD13	1:A:65:ASP:O	0.41	2.16	1	1
1:A:104:LEU:HB2	1:A:108:THR:OG1	0.41	2.15	17	1
1:A:81:GLU:HG3	1:A:100:TYR:CD2	0.41	2.50	3	1
1:A:67:ILE:HD11	1:A:71:TRP:CZ2	0.41	2.49	3	1
1:A:60:CYS:O	1:A:73:GLN:CB	0.41	2.68	11	1
1:A:81:GLU:HB3	1:A:100:TYR:CD2	0.41	2.49	15	1
1:A:82:ARG:HD2	1:A:83:PRO:HD2	0.41	1.93	4	1
1:A:113:VAL:HG22	1:A:114:ASN:H	0.41	1.76	14	1
1:A:85:PRO:HG3	1:A:115:TYR:OH	0.41	2.15	13	1
1:A:104:LEU:O	1:A:106:ASN:N	0.41	2.53	20	1
1:A:59:TYR:CE1	1:A:75:ALA:HB2	0.41	2.50	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:VAL:HB	1:A:101:ARG:NE	0.41	2.31	14	1
1:A:81:GLU:HB3	1:A:100:TYR:CE2	0.41	2.51	15	1
1:A:84:CYS:HB2	1:A:94:ASN:O	0.41	2.15	4	1
1:A:111:SER:OG	1:A:112:ARG:N	0.41	2.54	16	1
1:A:100:TYR:CD1	1:A:100:TYR:N	0.41	2.88	12	1
1:A:66:GLN:OE1	1:A:101:ARG:NH1	0.41	2.53	19	1
1:A:63:THR:O	1:A:71:TRP:N	0.41	2.54	14	1
1:A:85:PRO:HG2	1:A:88:PHE:CD1	0.41	2.51	15	1
1:A:76:PRO:HB2	1:A:105:GLU:HA	0.41	1.93	15	1
1:A:80:VAL:HG21	1:A:109:TRP:HH2	0.41	1.75	3	1
1:A:82:ARG:NE	1:A:99:ALA:HB3	0.41	2.31	9	1
1:A:81:GLU:CD	1:A:100:TYR:CE2	0.41	2.94	6	1
1:A:81:GLU:HG2	1:A:100:TYR:CE2	0.41	2.51	17	1
1:A:86:GLU:O	1:A:92:LYS:HA	0.40	2.16	19	1
1:A:86:GLU:CB	1:A:95:THR:HG23	0.40	2.46	3	1
1:A:92:LYS:O	1:A:93:TYR:CG	0.40	2.74	6	1
1:A:100:TYR:O	1:A:113:VAL:HG12	0.40	2.15	18	1
1:A:96:THR:HG23	1:A:97:ARG:HG3	0.40	1.93	12	1
1:A:65:ASP:CB	1:A:101:ARG:NH2	0.40	2.84	19	1
1:A:101:ARG:HG3	1:A:113:VAL:HG13	0.40	1.93	3	1
1:A:101:ARG:CD	1:A:101:ARG:C	0.40	2.89	14	1
1:A:79:LEU:HA	1:A:102:GLU:HA	0.40	1.92	15	1
1:A:59:TYR:CD2	1:A:73:GLN:CB	0.40	3.04	12	1
1:A:67:ILE:HG21	1:A:115:TYR:HE2	0.40	1.75	19	1
1:A:79:LEU:CD1	1:A:79:LEU:C	0.40	2.89	7	1
1:A:79:LEU:HD11	1:A:100:TYR:HB3	0.40	1.92	2	1
1:A:96:THR:C	1:A:97:ARG:HD3	0.40	2.36	2	1
1:A:64:LEU:HD23	1:A:65:ASP:O	0.40	2.16	20	1
1:A:94:ASN:O	1:A:97:ARG:NH1	0.40	2.52	3	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	61/119 (51%)	40±3 (65±6%)	16±2 (26±4%)	5±2 (8±4%)	2	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	1217/2380 (51%)	798 (66%)	317 (26%)	102 (8%)	2	14

All 37 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	113	VAL	13
1	A	62	THR	9
1	A	68	GLY	7
1	A	87	TYR	6
1	A	94	ASN	6
1	A	75	ALA	6
1	A	86	GLU	5
1	A	112	ARG	4
1	A	74	SER	3
1	A	83	PRO	3
1	A	104	LEU	3
1	A	66	GLN	3
1	A	70	CYS	3
1	A	119	GLU	3
1	A	93	TYR	2
1	A	84	CYS	2
1	A	105	GLU	2
1	A	118	CYS	2
1	A	73	GLN	2
1	A	95	THR	1
1	A	100	TYR	1
1	A	91	ILE	1
1	A	96	THR	1
1	A	107	GLY	1
1	A	110	ALA	1
1	A	115	TYR	1
1	A	72	PRO	1
1	A	101	ARG	1
1	A	89	ASN	1
1	A	60	CYS	1
1	A	76	PRO	1
1	A	85	PRO	1
1	A	92	LYS	1
1	A	88	PHE	1
1	A	106	ASN	1
1	A	69	THR	1

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Mol	Chain	Res	Type	Models (Total)
1	A	114	ASN	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	53/103 (51%)	37±3 (69±5%)	16±3 (31±5%)	2	16
All	All	1059/2060 (51%)	735 (69%)	324 (31%)	2	16

All 47 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	84	CYS	16
1	A	92	LYS	15
1	A	93	TYR	14
1	A	73	GLN	14
1	A	97	ARG	13
1	A	112	ARG	11
1	A	82	ARG	11
1	A	101	ARG	11
1	A	106	ASN	10
1	A	118	CYS	10
1	A	95	THR	9
1	A	74	SER	9
1	A	104	LEU	8
1	A	105	GLU	8
1	A	81	GLU	8
1	A	116	SER	8
1	A	65	ASP	7
1	A	91	ILE	7
1	A	115	TYR	7
1	A	86	GLU	7
1	A	64	LEU	7
1	A	61	ASN	7
1	A	119	GLU	6
1	A	96	THR	6

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Mol	Chain	Res	Type	Models (Total)
1	A	111	SER	6
1	A	66	GLN	6
1	A	60	CYS	6
1	A	87	TYR	6
1	A	59	TYR	6
1	A	102	GLU	5
1	A	89	ASN	5
1	A	108	THR	5
1	A	100	TYR	5
1	A	88	PHE	5
1	A	103	CYS	5
1	A	69	THR	5
1	A	67	ILE	4
1	A	114	ASN	4
1	A	117	HIS	4
1	A	98	ASN	4
1	A	113	VAL	4
1	A	70	CYS	3
1	A	62	THR	2
1	A	94	ASN	2
1	A	109	TRP	1
1	A	79	LEU	1
1	A	63	THR	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.6 Ligand geometry ⓘ

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

No chemical shift data were provided