



# Full wwPDB NMR Structure Validation Report ⓘ

Apr 15, 2026 – 11:40 AM UTC

PDB ID : 1AJW / pdb\_00001ajw  
Title : STRUCTURE OF RHOGDI: A C-TERMINAL BINDING DOMAIN TARGETS AN N-TERMINAL INHIBITORY PEPTIDE TO GTPASES, NMR, 20 STRUCTURES  
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Deposited on : 1997-05-11

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

<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>.

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

MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

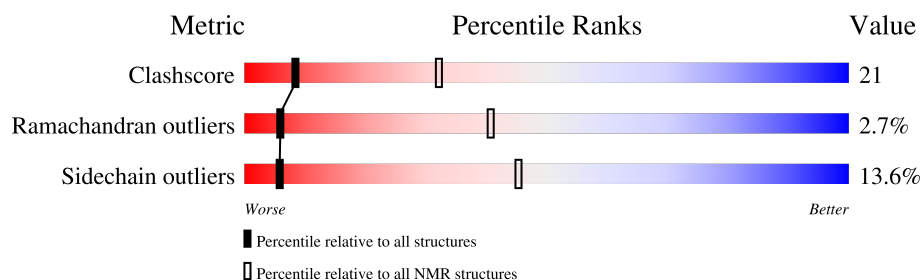
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

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

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	145	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models).

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:69-A:183, A:187-A:204 (133)	0.81	4

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. No single-model clusters were found.

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

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

There is only 1 type of molecule in this entry. The entry contains 2346 atoms, of which 1171 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called RHOGDI.

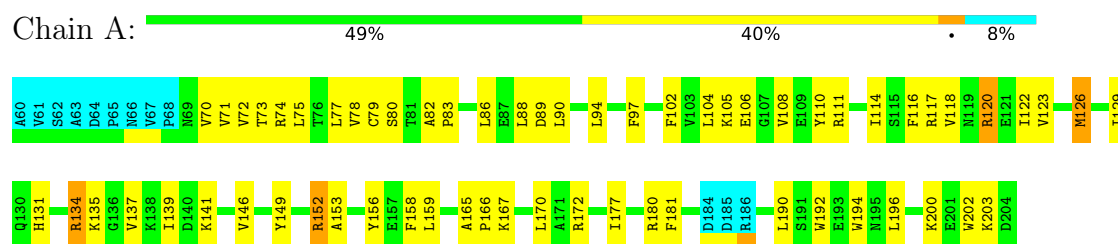
Mol	Chain	Residues	Atoms						Trace
1	A	145	Total	C	H	N	O	S	0
			2346	747	1171	199	224	5	

## 4 Residue-property plots

### 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: RHOGDI

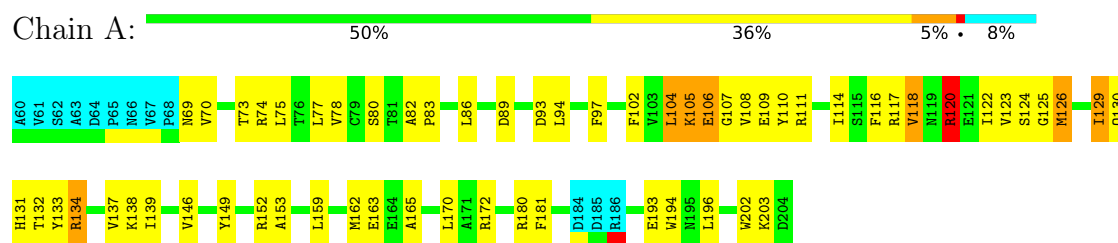


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

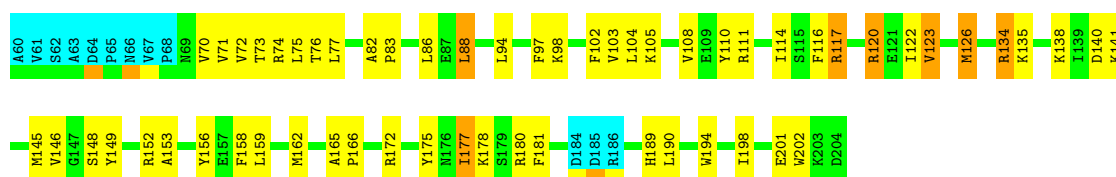
- Molecule 1: RHOGDI



#### 4.2.2 Score per residue for model 2

- Molecule 1: RHOGDI

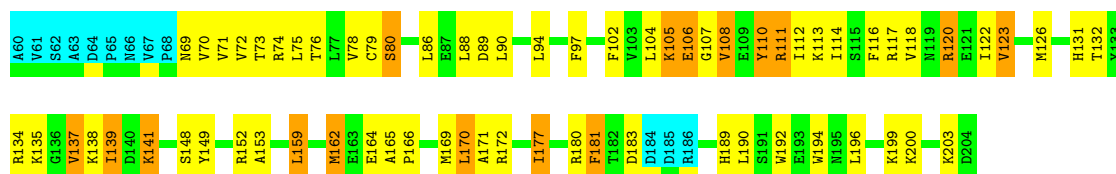




### 4.2.3 Score per residue for model 3

- Molecule 1: RHOGDI

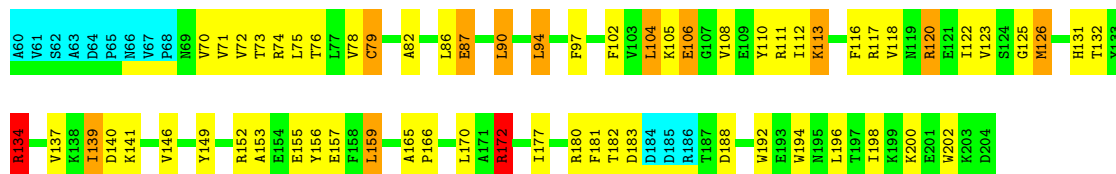
Chain A: 45% 36% 11% 8%



### 4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: RHOGDI

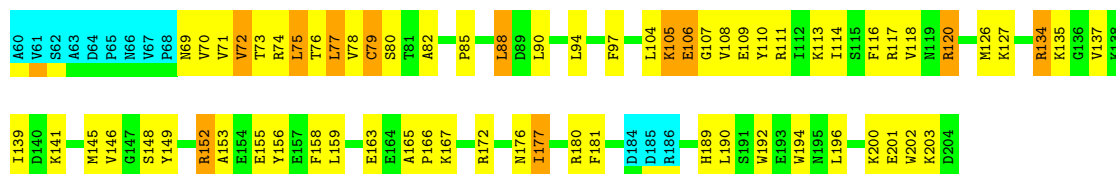
Chain A: 48% 34% 8% 8%



### 4.2.5 Score per residue for model 5

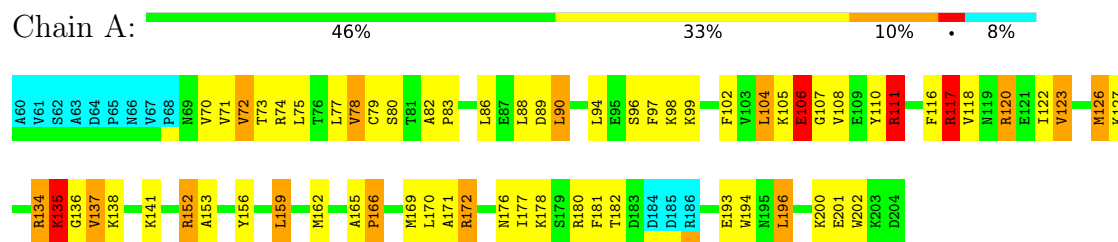
- Molecule 1: RHOGDI

Chain A: 46% 39% 8% 8%



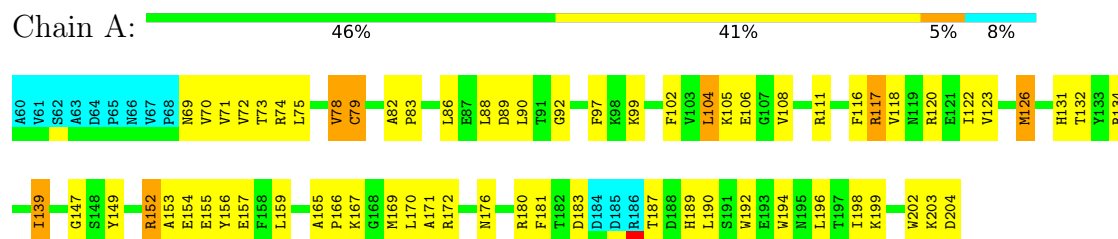
### 4.2.6 Score per residue for model 6

- Molecule 1: RHOGDI



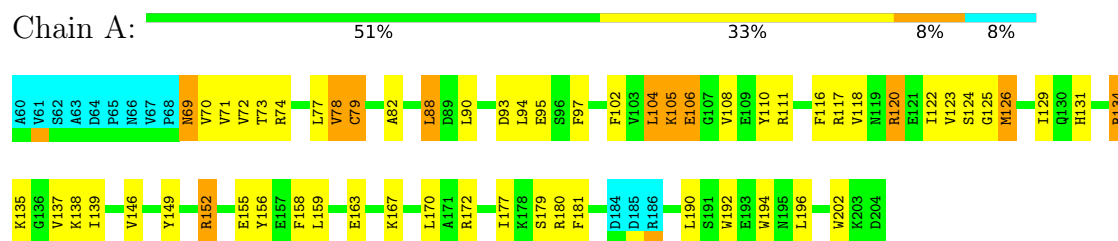
#### 4.2.7 Score per residue for model 7

- Molecule 1: RHOGDI



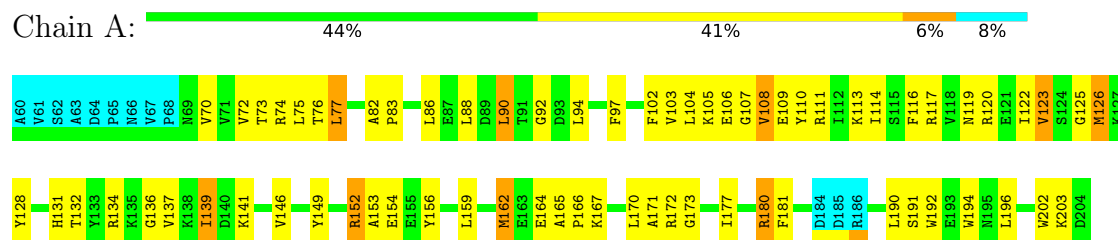
#### 4.2.8 Score per residue for model 8

- Molecule 1: RHOGDI



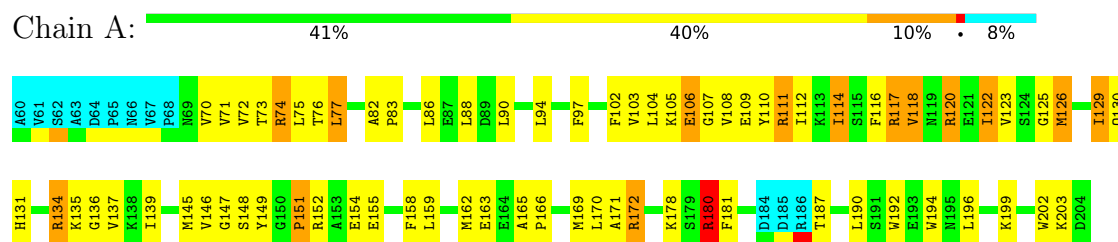
#### 4.2.9 Score per residue for model 9

- Molecule 1: RHOGDI



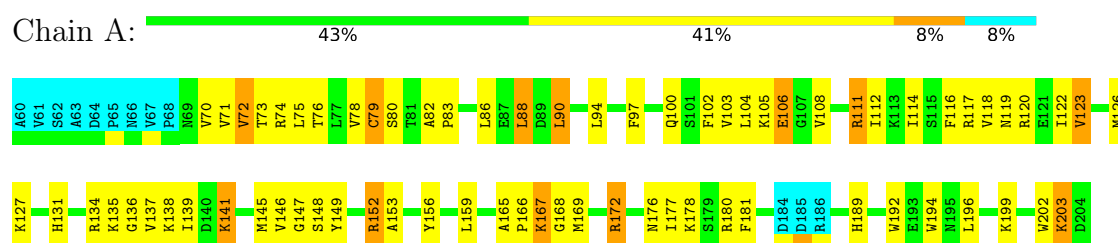
### 4.2.10 Score per residue for model 10

- Molecule 1: RHOGDI



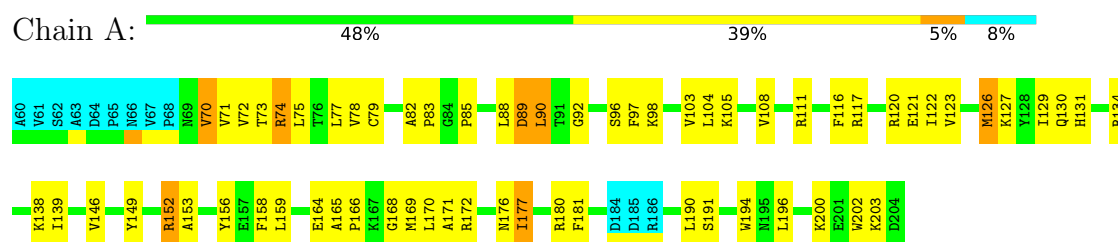
### 4.2.11 Score per residue for model 11

- Molecule 1: RHOGDI



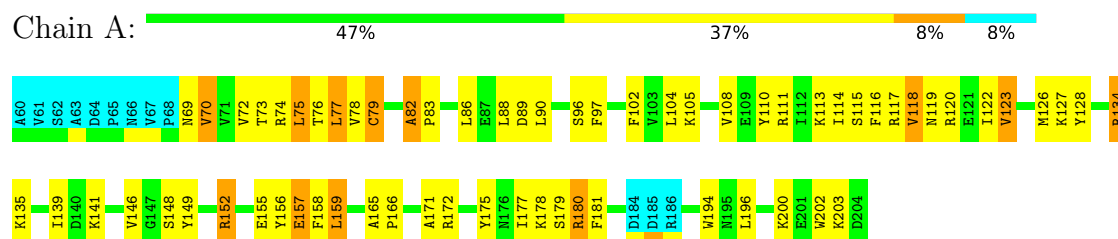
### 4.2.12 Score per residue for model 12

- Molecule 1: RHOGDI



### 4.2.13 Score per residue for model 13

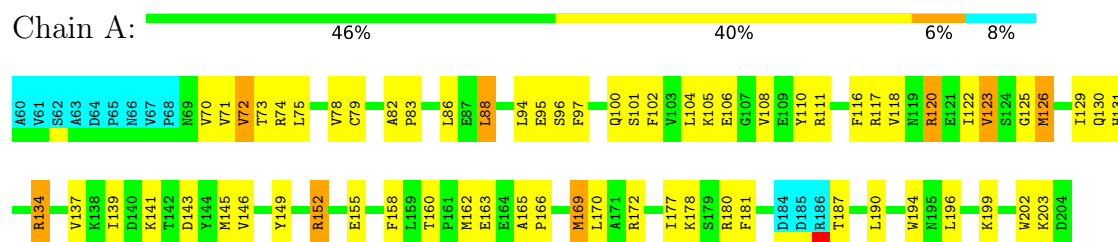
- Molecule 1: RHOGDI





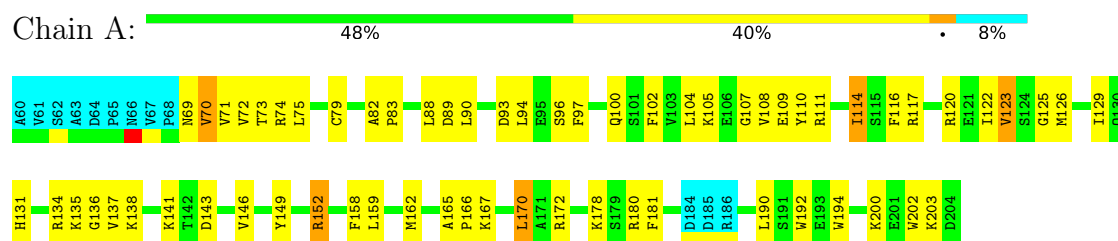
## 4.2.14 Score per residue for model 14

- Molecule 1: RHOGDI



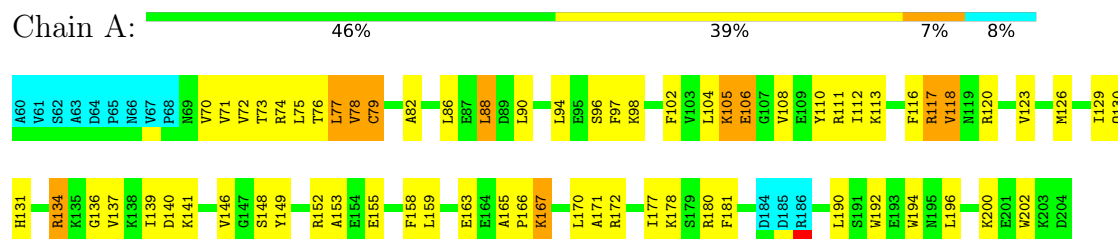
## 4.2.15 Score per residue for model 15

- Molecule 1: RHOGDI



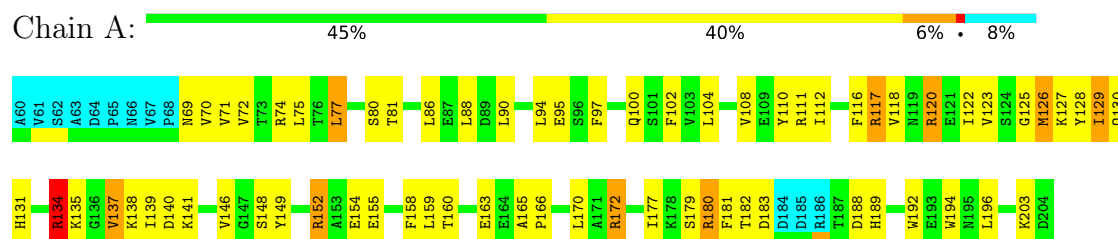
## 4.2.16 Score per residue for model 16

- Molecule 1: RHOGDI



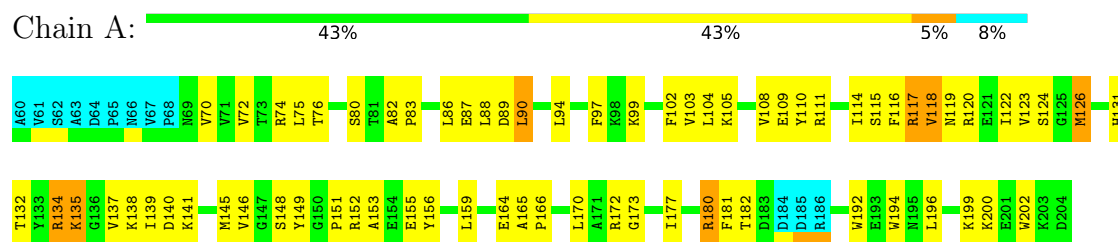
## 4.2.17 Score per residue for model 17

- Molecule 1: RHOGDI



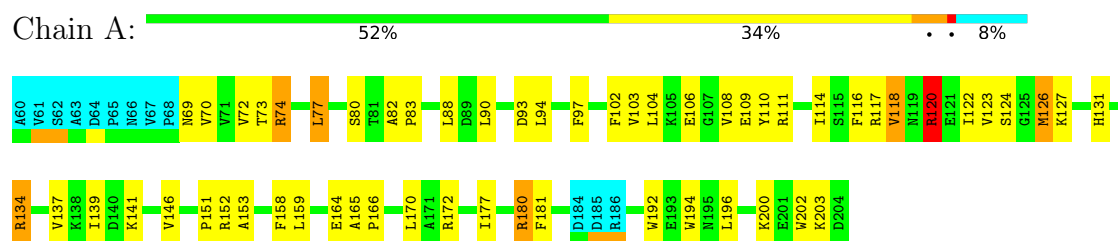
### 4.2.18 Score per residue for model 18

#### • Molecule 1: RHOGDI



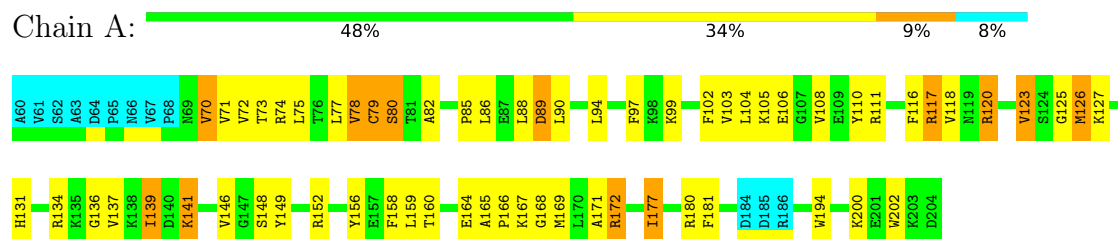
### 4.2.19 Score per residue for model 19

#### • Molecule 1: RHOGDI



### 4.2.20 Score per residue for model 20

#### • Molecule 1: RHOGDI



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *HYBRID DISTANCE GEOMETRY/ SIMULATED ANNEALING*.

Of the 40 calculated structures, 20 were deposited, based on the following criterion: *NO DISTANCE VIOLATIONS*.

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

Software name	Classification	Version
X-PLOR	refinement	3.0
NMRPipe	structure solution	
NMRView	structure solution	
X-PLOR	structure solution	

No chemical shift data was provided.

## 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	1.42±0.01	0±0/1112 ( 0.0± 0.0%)	1.49±0.02	4±1/1497 ( 0.3± 0.1%)
All	All	1.42	2/22240 ( 0.0%)	1.49	81/29940 ( 0.3%)

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	8.0±0.0
All	All	0	160

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	173	GLY	N-CA	5.08	1.49	1.45	18	2

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
1	A	123	VAL	N-CA-CB	-7.59	104.70	112.06	9	10
1	A	118	VAL	N-CA-CB	-7.34	105.31	112.65	13	15
1	A	137	VAL	N-CA-CB	-6.39	105.24	111.89	4	3
1	A	78	VAL	N-CA-CB	-6.39	105.06	112.34	20	8
1	A	129	ILE	N-CA-CB	-6.21	105.25	112.34	10	4
1	A	122	ILE	N-CA-CB	-6.18	105.22	111.90	2	15
1	A	177	ILE	N-CA-CB	-6.00	105.38	112.40	5	5
1	A	70	VAL	N-CA-CB	-5.64	104.88	112.10	12	4
1	A	203	LYS	N-CA-CB	-5.63	105.03	111.79	10	1
1	A	103	VAL	N-CA-CB	-5.61	105.46	111.46	10	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	72	VAL	N-CA-CB	-5.53	105.54	111.46	6	4
1	A	114	ILE	N-CA-CB	-5.27	104.98	110.72	10	3
1	A	139	ILE	N-CA-CB	-5.02	105.34	112.12	20	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)
1	A	74	ARG	Sidechain	20
1	A	111	ARG	Sidechain	20
1	A	117	ARG	Sidechain	20
1	A	120	ARG	Sidechain	20
1	A	134	ARG	Sidechain	20
1	A	152	ARG	Sidechain	20
1	A	172	ARG	Sidechain	20
1	A	180	ARG	Sidechain	20

## 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	1088	1091	1091	47±7
All	All	21760	21820	21820	935

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 21.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:104:LEU:HD12	1:A:196:LEU:HD11	0.94	1.35	13	6
1:A:104:LEU:HD21	1:A:108:VAL:HG22	0.94	1.37	9	4
1:A:70:VAL:HG21	1:A:123:VAL:HG21	0.93	1.40	9	17
1:A:116:PHE:CD2	1:A:126:MET:HE1	0.88	2.03	13	8
1:A:114:ILE:HG21	1:A:181:PHE:CE2	0.87	2.03	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:116:PHE:CD1	1:A:126:MET:HE1	0.87	2.05	4	6
1:A:88:LEU:HD22	1:A:97:PHE:CZ	0.86	2.06	9	8
1:A:126:MET:HE3	1:A:181:PHE:CE2	0.84	2.07	10	2
1:A:82:ALA:HB2	1:A:202:TRP:CZ2	0.83	2.08	1	5
1:A:82:ALA:HB2	1:A:202:TRP:CH2	0.83	2.08	1	15
1:A:86:LEU:HD22	1:A:102:PHE:CD1	0.82	2.08	9	9
1:A:177:ILE:HG21	1:A:194:TRP:CZ2	0.82	2.10	2	7
1:A:126:MET:HE2	1:A:181:PHE:CE2	0.81	2.10	13	7
1:A:104:LEU:HD22	1:A:108:VAL:HG21	0.80	1.51	13	7
1:A:190:LEU:HD13	1:A:191:SER:N	0.80	1.91	9	2
1:A:146:VAL:HG21	1:A:181:PHE:CZ	0.80	2.11	11	3
1:A:116:PHE:CE1	1:A:126:MET:HE1	0.79	2.11	15	3
1:A:70:VAL:HG11	1:A:126:MET:HE1	0.78	1.54	18	2
1:A:70:VAL:HG22	1:A:118:VAL:HG22	0.78	1.54	6	4
1:A:104:LEU:HD23	1:A:202:TRP:CZ3	0.78	2.13	13	5
1:A:104:LEU:CD1	1:A:196:LEU:HD11	0.78	2.09	13	6
1:A:71:VAL:HG13	1:A:190:LEU:HD22	0.76	1.57	8	7
1:A:104:LEU:CD2	1:A:196:LEU:HD11	0.76	2.11	1	1
1:A:146:VAL:HG12	1:A:149:TYR:CE1	0.75	2.16	15	4
1:A:82:ALA:HB1	1:A:83:PRO:HD2	0.74	1.59	13	13
1:A:116:PHE:CG	1:A:126:MET:HE1	0.73	2.19	16	9
1:A:88:LEU:HD21	1:A:97:PHE:CE1	0.72	2.18	15	3
1:A:126:MET:HE1	1:A:181:PHE:CZ	0.72	2.20	20	1
1:A:131:HIS:O	1:A:177:ILE:HG23	0.71	1.85	8	5
1:A:104:LEU:HD12	1:A:196:LEU:CD1	0.71	2.14	13	2
1:A:105:LYS:O	1:A:108:VAL:HG13	0.70	1.87	12	6
1:A:73:THR:HG23	1:A:116:PHE:HA	0.70	1.62	19	16
1:A:165:ALA:HB1	1:A:166:PRO:HD2	0.69	1.63	13	17
1:A:166:PRO:HB2	1:A:171:ALA:HB1	0.69	1.63	13	3
1:A:104:LEU:HD11	1:A:196:LEU:HD11	0.69	1.65	19	2
1:A:104:LEU:HD23	1:A:196:LEU:HD11	0.69	1.63	1	1
1:A:70:VAL:CG1	1:A:126:MET:HE1	0.69	2.18	9	3
1:A:88:LEU:HD22	1:A:97:PHE:CE1	0.69	2.23	7	10
1:A:126:MET:HE3	1:A:181:PHE:CZ	0.69	2.23	18	1
1:A:104:LEU:HD22	1:A:165:ALA:HB2	0.68	1.65	10	1
1:A:114:ILE:HG21	1:A:181:PHE:CZ	0.68	2.23	3	2
1:A:146:VAL:HG13	1:A:158:PHE:CD1	0.68	2.23	12	3
1:A:88:LEU:HD12	1:A:102:PHE:CZ	0.68	2.24	15	1
1:A:104:LEU:HD21	1:A:108:VAL:CG2	0.68	2.18	10	4
1:A:153:ALA:HB3	1:A:156:TYR:CE2	0.67	2.24	7	2
1:A:70:VAL:CG2	1:A:123:VAL:HG21	0.67	2.17	9	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:146:VAL:HG13	1:A:158:PHE:CG	0.66	2.25	16	4
1:A:72:VAL:HG22	1:A:181:PHE:CD2	0.66	2.25	5	4
1:A:153:ALA:HB3	1:A:156:TYR:CZ	0.66	2.24	9	3
1:A:194:TRP:CZ3	1:A:196:LEU:HD21	0.66	2.24	6	1
1:A:146:VAL:HG12	1:A:149:TYR:OH	0.66	1.91	5	2
1:A:71:VAL:CG1	1:A:190:LEU:HD22	0.65	2.22	8	2
1:A:70:VAL:HG21	1:A:123:VAL:CG2	0.65	2.22	1	3
1:A:72:VAL:HG11	1:A:90:LEU:HD22	0.64	1.68	18	3
1:A:170:LEU:O	1:A:170:LEU:HD23	0.64	1.91	7	5
1:A:108:VAL:HG11	1:A:202:TRP:CZ2	0.64	2.27	10	1
1:A:75:LEU:HD23	1:A:76:THR:N	0.64	2.07	18	6
1:A:102:PHE:HB2	1:A:196:LEU:HD12	0.63	1.70	19	1
1:A:104:LEU:CD2	1:A:108:VAL:HG21	0.63	2.23	7	5
1:A:170:LEU:O	1:A:170:LEU:HD13	0.63	1.93	15	2
1:A:104:LEU:HD22	1:A:165:ALA:CB	0.62	2.23	10	1
1:A:107:GLY:HA2	1:A:165:ALA:HB3	0.62	1.72	3	7
1:A:88:LEU:HD22	1:A:97:PHE:CE2	0.62	2.30	10	6
1:A:104:LEU:HD12	1:A:196:LEU:HD21	0.62	1.70	4	3
1:A:157:GLU:OE1	1:A:159:LEU:HD12	0.62	1.94	13	1
1:A:77:LEU:HD12	1:A:86:LEU:HB2	0.62	1.72	2	2
1:A:153:ALA:HB3	1:A:156:TYR:OH	0.61	1.95	6	2
1:A:108:VAL:HG21	1:A:202:TRP:CH2	0.61	2.30	10	2
1:A:114:ILE:HG21	1:A:181:PHE:CE1	0.61	2.30	3	4
1:A:167:LYS:O	1:A:171:ALA:HB3	0.61	1.95	16	2
1:A:86:LEU:HD13	1:A:102:PHE:HB3	0.60	1.74	9	3
1:A:134:ARG:O	1:A:137:VAL:HG22	0.60	1.96	14	5
1:A:177:ILE:HG21	1:A:194:TRP:CE2	0.60	2.31	11	7
1:A:104:LEU:HD23	1:A:105:LYS:O	0.59	1.97	10	3
1:A:116:PHE:CE2	1:A:126:MET:HE1	0.59	2.32	3	2
1:A:170:LEU:C	1:A:170:LEU:HD13	0.59	2.22	10	1
1:A:70:VAL:CG1	1:A:126:MET:HE2	0.59	2.28	20	1
1:A:76:THR:O	1:A:112:ILE:HG23	0.58	1.97	3	3
1:A:72:VAL:HG23	1:A:181:PHE:CD2	0.58	2.33	20	5
1:A:77:LEU:HD13	1:A:102:PHE:CE2	0.58	2.33	16	1
1:A:94:LEU:HD23	1:A:97:PHE:CE1	0.57	2.33	9	2
1:A:126:MET:HE1	1:A:181:PHE:CE2	0.57	2.33	12	2
1:A:69:ASN:ND2	1:A:70:VAL:HG23	0.57	2.13	1	3
1:A:76:THR:HG23	1:A:87:GLU:HG3	0.57	1.76	4	1
1:A:126:MET:HE2	1:A:181:PHE:CZ	0.57	2.34	13	1
1:A:159:LEU:C	1:A:159:LEU:HD13	0.57	2.24	15	4
1:A:182:THR:HG22	1:A:188:ASP:CB	0.57	2.28	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:106:GLU:OE1	1:A:198:ILE:HG21	0.56	2.00	7	1
1:A:146:VAL:HG12	1:A:149:TYR:CE2	0.56	2.35	17	5
1:A:82:ALA:HB1	1:A:83:PRO:CD	0.56	2.31	12	7
1:A:113:LYS:CG	1:A:159:LEU:HD11	0.56	2.31	4	1
1:A:126:MET:HE2	1:A:181:PHE:CE1	0.56	2.36	16	2
1:A:104:LEU:HD23	1:A:105:LYS:N	0.56	2.16	9	4
1:A:118:VAL:HG12	1:A:151:PRO:HA	0.56	1.77	19	3
1:A:132:THR:CG2	1:A:139:ILE:HD11	0.55	2.31	3	2
1:A:129:ILE:HD12	1:A:129:ILE:N	0.55	2.16	10	3
1:A:77:LEU:HD23	1:A:110:TYR:CD1	0.55	2.36	13	5
1:A:71:VAL:HG13	1:A:190:LEU:HD13	0.55	1.77	14	1
1:A:134:ARG:HG2	1:A:139:ILE:HD12	0.55	1.76	17	1
1:A:146:VAL:HG21	1:A:181:PHE:CE1	0.55	2.36	17	1
1:A:134:ARG:O	1:A:137:VAL:HG12	0.55	2.01	1	1
1:A:126:MET:SD	1:A:146:VAL:HG11	0.55	2.42	2	2
1:A:104:LEU:CG	1:A:196:LEU:HD11	0.55	2.31	1	1
1:A:72:VAL:CG1	1:A:90:LEU:HD12	0.54	2.32	20	1
1:A:122:ILE:HG23	1:A:149:TYR:O	0.54	2.03	1	2
1:A:70:VAL:HG12	1:A:70:VAL:O	0.54	2.02	8	3
1:A:104:LEU:CD2	1:A:108:VAL:HG22	0.54	2.23	10	1
1:A:104:LEU:HD22	1:A:202:TRP:CZ3	0.54	2.37	12	2
1:A:70:VAL:CG1	1:A:126:MET:HE3	0.54	2.33	13	3
1:A:75:LEU:C	1:A:75:LEU:HD23	0.53	2.29	7	9
1:A:72:VAL:CG1	1:A:90:LEU:HD22	0.53	2.33	7	3
1:A:72:VAL:HG11	1:A:90:LEU:HD13	0.53	1.78	19	1
1:A:104:LEU:HD13	1:A:196:LEU:HD21	0.53	1.79	9	1
1:A:73:THR:HG21	1:A:155:GLU:OE1	0.53	2.03	16	1
1:A:72:VAL:CG1	1:A:90:LEU:HD13	0.53	2.33	10	10
1:A:135:LYS:O	1:A:137:VAL:HG23	0.53	2.04	18	2
1:A:170:LEU:HD22	1:A:170:LEU:N	0.52	2.19	1	2
1:A:78:VAL:HG22	1:A:85:PRO:HB3	0.52	1.81	12	2
1:A:132:THR:HG21	1:A:139:ILE:HD11	0.52	1.81	3	2
1:A:182:THR:HG22	1:A:188:ASP:HA	0.52	1.82	4	2
1:A:90:LEU:HD21	1:A:192:TRP:CD2	0.52	2.40	9	4
1:A:72:VAL:HG12	1:A:90:LEU:HD13	0.52	1.80	10	3
1:A:123:VAL:HG13	1:A:183:ASP:HB2	0.52	1.81	4	1
1:A:134:ARG:HH11	1:A:139:ILE:HD12	0.52	1.65	4	1
1:A:146:VAL:HG13	1:A:158:PHE:HB2	0.52	1.82	10	3
1:A:177:ILE:CD1	1:A:196:LEU:HD23	0.52	2.35	6	1
1:A:169:MET:HE2	1:A:172:ARG:HH21	0.52	1.64	10	1
1:A:86:LEU:HD13	1:A:102:PHE:CG	0.52	2.40	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:111:ARG:HD3	1:A:159:LEU:HD11	0.51	1.82	6	1
1:A:104:LEU:CD2	1:A:165:ALA:HB2	0.51	2.35	10	1
1:A:72:VAL:HG22	1:A:181:PHE:HD2	0.51	1.66	17	1
1:A:168:GLY:O	1:A:171:ALA:HB3	0.51	2.05	12	1
1:A:90:LEU:HD21	1:A:192:TRP:CE2	0.51	2.41	18	5
1:A:166:PRO:O	1:A:171:ALA:HB1	0.51	2.06	3	1
1:A:88:LEU:HD12	1:A:102:PHE:CE1	0.51	2.40	15	1
1:A:75:LEU:HG	1:A:114:ILE:HD13	0.51	1.81	13	4
1:A:153:ALA:HB1	1:A:156:TYR:OH	0.51	2.06	2	1
1:A:170:LEU:HD13	1:A:170:LEU:O	0.51	2.06	10	1
1:A:104:LEU:HD22	1:A:108:VAL:CG2	0.51	2.33	18	6
1:A:106:GLU:OE2	1:A:171:ALA:HB3	0.50	2.06	7	1
1:A:72:VAL:HG21	1:A:192:TRP:CZ3	0.50	2.40	8	2
1:A:182:THR:HG22	1:A:188:ASP:CA	0.50	2.37	17	1
1:A:128:TYR:CD1	1:A:181:PHE:CD2	0.50	2.98	9	1
1:A:116:PHE:CE2	1:A:126:MET:HE2	0.50	2.42	10	3
1:A:72:VAL:HB	1:A:190:LEU:HD23	0.50	1.82	16	1
1:A:104:LEU:HD23	1:A:196:LEU:CD1	0.50	2.34	1	1
1:A:194:TRP:CD1	1:A:194:TRP:N	0.50	2.79	6	18
1:A:108:VAL:HG23	1:A:110:TYR:HD2	0.50	1.67	20	1
1:A:165:ALA:HB1	1:A:166:PRO:CD	0.50	2.36	13	4
1:A:75:LEU:HD23	1:A:75:LEU:C	0.50	2.32	2	3
1:A:126:MET:HE3	1:A:181:PHE:HZ	0.50	1.63	18	1
1:A:126:MET:HE2	1:A:181:PHE:HE2	0.50	1.66	4	1
1:A:116:PHE:CD2	1:A:181:PHE:CE2	0.50	3.00	8	1
1:A:159:LEU:HD13	1:A:159:LEU:O	0.50	2.06	15	1
1:A:116:PHE:CD2	1:A:181:PHE:CZ	0.49	3.00	4	1
1:A:190:LEU:HD13	1:A:191:SER:H	0.49	1.63	12	2
1:A:149:TYR:CD1	1:A:156:TYR:CE2	0.49	2.99	9	1
1:A:129:ILE:HG23	1:A:143:ASP:OD1	0.49	2.06	14	2
1:A:114:ILE:HG21	1:A:181:PHE:CD2	0.49	2.43	1	1
1:A:110:TYR:OH	1:A:196:LEU:HD21	0.49	2.08	3	1
1:A:104:LEU:CD1	1:A:196:LEU:HD21	0.49	2.38	17	2
1:A:105:LYS:HB3	1:A:108:VAL:HG11	0.49	1.84	15	5
1:A:149:TYR:CD1	1:A:156:TYR:CD1	0.49	3.01	2	1
1:A:149:TYR:CE1	1:A:156:TYR:CD1	0.48	3.01	2	1
1:A:76:THR:HG23	1:A:85:PRO:HB2	0.48	1.85	5	1
1:A:177:ILE:HD12	1:A:196:LEU:HD23	0.48	1.84	6	1
1:A:127:LYS:HE2	1:A:182:THR:HG23	0.48	1.84	6	1
1:A:102:PHE:HB3	1:A:196:LEU:HD12	0.48	1.84	10	2
1:A:88:LEU:HD21	1:A:97:PHE:CD1	0.48	2.44	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:132:THR:HG22	1:A:139:ILE:HD11	0.48	1.85	7	1
1:A:73:THR:HG21	1:A:155:GLU:HG2	0.48	1.84	7	1
1:A:156:TYR:N	1:A:156:TYR:CD1	0.48	2.82	5	4
1:A:70:VAL:CG2	1:A:118:VAL:HG22	0.48	2.34	16	2
1:A:146:VAL:HG22	1:A:158:PHE:CE2	0.48	2.44	12	1
1:A:110:TYR:C	1:A:110:TYR:CD1	0.48	2.91	9	1
1:A:149:TYR:CD1	1:A:156:TYR:CD2	0.48	3.01	9	2
1:A:139:ILE:HD12	1:A:140:ASP:OD2	0.48	2.08	16	1
1:A:70:VAL:HG11	1:A:126:MET:SD	0.47	2.48	9	1
1:A:104:LEU:HD23	1:A:105:LYS:H	0.47	1.68	6	1
1:A:105:LYS:O	1:A:106:GLU:C	0.47	2.58	6	9
1:A:104:LEU:HG	1:A:196:LEU:HD11	0.47	1.87	1	1
1:A:116:PHE:N	1:A:116:PHE:CD1	0.47	2.82	10	5
1:A:116:PHE:CZ	1:A:126:MET:HE1	0.47	2.43	8	1
1:A:139:ILE:HG22	1:A:140:ASP:OD2	0.47	2.10	17	2
1:A:182:THR:HG22	1:A:188:ASP:HB3	0.47	1.86	17	1
1:A:88:LEU:HD23	1:A:89:ASP:N	0.47	2.24	15	2
1:A:146:VAL:HG12	1:A:149:TYR:CZ	0.47	2.44	15	2
1:A:131:HIS:CD2	1:A:131:HIS:N	0.47	2.83	16	13
1:A:88:LEU:CD2	1:A:97:PHE:CE1	0.47	2.98	19	7
1:A:116:PHE:CD2	1:A:126:MET:CE	0.47	2.98	11	10
1:A:104:LEU:CD2	1:A:202:TRP:CZ3	0.46	2.99	14	5
1:A:116:PHE:CZ	1:A:156:TYR:CB	0.46	2.99	7	2
1:A:82:ALA:CB	1:A:202:TRP:CH2	0.46	2.99	16	11
1:A:108:VAL:O	1:A:108:VAL:HG23	0.46	2.09	13	3
1:A:105:LYS:CG	1:A:202:TRP:CE2	0.46	2.98	1	1
1:A:90:LEU:HA	1:A:94:LEU:HD21	0.46	1.85	20	2
1:A:72:VAL:HG11	1:A:90:LEU:HD12	0.46	1.87	20	1
1:A:153:ALA:CB	1:A:156:TYR:CZ	0.46	2.99	11	2
1:A:72:VAL:CG2	1:A:181:PHE:CG	0.46	2.99	6	8
1:A:104:LEU:HB2	1:A:198:ILE:HD13	0.46	1.86	2	1
1:A:104:LEU:HB3	1:A:108:VAL:HG21	0.46	1.87	12	1
1:A:170:LEU:HD23	1:A:170:LEU:C	0.46	2.36	12	1
1:A:105:LYS:CB	1:A:108:VAL:HG13	0.46	2.40	1	1
1:A:170:LEU:N	1:A:170:LEU:CD2	0.46	2.79	1	2
1:A:72:VAL:CG2	1:A:181:PHE:CD2	0.46	2.99	14	10
1:A:134:ARG:NH1	1:A:139:ILE:HD12	0.46	2.24	4	1
1:A:132:THR:O	1:A:139:ILE:HD13	0.46	2.11	7	1
1:A:77:LEU:HD21	1:A:112:ILE:CD1	0.46	2.41	17	1
1:A:131:HIS:CE1	1:A:141:LYS:CD	0.46	2.99	16	1
1:A:134:ARG:NE	1:A:175:TYR:CE2	0.45	2.84	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:116:PHE:CD1	1:A:116:PHE:N	0.45	2.85	9	4
1:A:126:MET:CE	1:A:181:PHE:CE2	0.45	3.00	19	4
1:A:134:ARG:NH2	1:A:139:ILE:HD11	0.45	2.26	17	1
1:A:133:TYR:CZ	1:A:138:LYS:CG	0.45	3.00	1	1
1:A:113:LYS:HG3	1:A:159:LEU:HD11	0.45	1.88	4	1
1:A:86:LEU:CD2	1:A:102:PHE:CD1	0.45	2.99	11	1
1:A:88:LEU:CD1	1:A:102:PHE:CE1	0.45	3.00	6	1
1:A:110:TYR:HE1	1:A:112:ILE:HD11	0.45	1.71	17	1
1:A:139:ILE:HG22	1:A:140:ASP:CG	0.45	2.36	17	1
1:A:158:PHE:CE2	1:A:160:THR:CG2	0.45	3.00	20	1
1:A:110:TYR:CD1	1:A:110:TYR:C	0.45	2.95	13	7
1:A:86:LEU:HD13	1:A:102:PHE:CB	0.45	2.42	7	3
1:A:181:PHE:C	1:A:182:THR:HG23	0.45	2.37	18	1
1:A:123:VAL:O	1:A:123:VAL:HG12	0.45	2.12	19	1
1:A:108:VAL:H	1:A:165:ALA:HB3	0.45	1.71	2	1
1:A:94:LEU:HD13	1:A:97:PHE:CE2	0.45	2.47	4	1
1:A:86:LEU:CB	1:A:102:PHE:CE2	0.45	3.00	10	2
1:A:116:PHE:CE1	1:A:126:MET:CE	0.44	2.99	8	1
1:A:73:THR:HG23	1:A:116:PHE:CA	0.44	2.38	19	1
1:A:73:THR:HG21	1:A:117:ARG:HG3	0.44	1.89	20	1
1:A:158:PHE:CE2	1:A:160:THR:HG22	0.44	2.47	17	3
1:A:110:TYR:CE1	1:A:112:ILE:HD11	0.44	2.47	17	1
1:A:75:LEU:HD12	1:A:114:ILE:CD1	0.44	2.43	18	1
1:A:72:VAL:HG23	1:A:181:PHE:CG	0.44	2.48	20	1
1:A:105:LYS:CB	1:A:108:VAL:CG1	0.44	2.96	14	4
1:A:183:ASP:CG	1:A:189:HIS:HE2	0.44	2.21	17	1
1:A:79:CYS:C	1:A:80:SER:HG	0.44	2.16	3	1
1:A:113:LYS:NZ	1:A:159:LEU:HD21	0.44	2.27	3	1
1:A:136:GLY:C	1:A:137:VAL:HG23	0.44	2.38	6	6
1:A:169:MET:O	1:A:171:ALA:N	0.44	2.51	20	2
1:A:86:LEU:HD13	1:A:102:PHE:CD1	0.44	2.48	14	2
1:A:94:LEU:HD11	1:A:192:TRP:CB	0.44	2.43	4	1
1:A:70:VAL:C	1:A:71:VAL:HG23	0.44	2.38	11	10
1:A:90:LEU:CD2	1:A:192:TRP:CD2	0.44	3.01	17	4
1:A:132:THR:O	1:A:139:ILE:HD12	0.44	2.13	18	1
1:A:110:TYR:CE1	1:A:165:ALA:HB2	0.43	2.48	15	1
1:A:75:LEU:HD21	1:A:112:ILE:HG23	0.43	1.90	16	1
1:A:116:PHE:CD2	1:A:126:MET:HE2	0.43	2.48	5	1
1:A:146:VAL:HG21	1:A:181:PHE:HZ	0.43	1.64	11	1
1:A:126:MET:CE	1:A:181:PHE:CZ	0.43	3.00	20	3
1:A:136:GLY:C	1:A:137:VAL:HG13	0.43	2.38	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:90:LEU:HD21	1:A:192:TRP:CD1	0.43	2.49	5	1
1:A:110:TYR:HE1	1:A:165:ALA:HB2	0.43	1.73	15	1
1:A:110:TYR:CD1	1:A:110:TYR:N	0.43	2.86	2	1
1:A:134:ARG:HB3	1:A:139:ILE:HD11	0.43	1.88	14	1
1:A:70:VAL:HG11	1:A:126:MET:HE3	0.43	1.90	16	1
1:A:131:HIS:CE1	1:A:141:LYS:CE	0.43	3.01	20	1
1:A:102:PHE:CB	1:A:196:LEU:HD12	0.43	2.44	13	4
1:A:104:LEU:HD21	1:A:202:TRP:CH2	0.43	2.49	8	1
1:A:194:TRP:CZ3	1:A:196:LEU:HD13	0.43	2.48	13	2
1:A:123:VAL:HG11	1:A:189:HIS:NE2	0.43	2.28	2	1
1:A:104:LEU:HD12	1:A:110:TYR:OH	0.43	2.14	3	1
1:A:73:THR:HG21	1:A:117:ARG:CG	0.43	2.43	10	1
1:A:202:TRP:CD1	1:A:202:TRP:C	0.43	2.97	15	1
1:A:94:LEU:O	1:A:97:PHE:CD2	0.43	2.72	16	10
1:A:89:ASP:O	1:A:97:PHE:CZ	0.42	2.72	20	4
1:A:88:LEU:HD23	1:A:97:PHE:CZ	0.42	2.48	20	1
1:A:148:SER:O	1:A:149:TYR:CD1	0.42	2.72	5	4
1:A:105:LYS:HB2	1:A:202:TRP:CD1	0.42	2.49	12	3
1:A:129:ILE:HD13	1:A:180:ARG:NE	0.42	2.29	10	1
1:A:129:ILE:HG22	1:A:130:GLN:N	0.42	2.28	12	4
1:A:116:PHE:CE2	1:A:181:PHE:CZ	0.42	3.07	8	1
1:A:146:VAL:CG1	1:A:149:TYR:CE1	0.42	2.99	8	2
1:A:134:ARG:CG	1:A:139:ILE:HD12	0.42	2.45	17	1
1:A:90:LEU:CD2	1:A:192:TRP:CE2	0.42	3.03	19	1
1:A:78:VAL:HG12	1:A:79:CYS:N	0.42	2.29	13	10
1:A:105:LYS:HB3	1:A:108:VAL:HG13	0.42	1.91	5	1
1:A:126:MET:HE1	1:A:181:PHE:HZ	0.42	1.71	20	1
1:A:104:LEU:CB	1:A:198:ILE:HD13	0.42	2.45	4	1
1:A:112:ILE:HG22	1:A:113:LYS:N	0.42	2.30	4	1
1:A:89:ASP:O	1:A:97:PHE:CE1	0.42	2.73	13	5
1:A:146:VAL:CG1	1:A:149:TYR:CZ	0.42	3.03	8	1
1:A:153:ALA:CB	1:A:156:TYR:CE2	0.42	3.01	7	1
1:A:177:ILE:HD12	1:A:194:TRP:CZ2	0.42	2.50	9	1
1:A:69:ASN:CB	1:A:120:ARG:CB	0.42	2.98	1	2
1:A:128:TYR:CE1	1:A:179:SER:OG	0.42	2.72	17	2
1:A:104:LEU:CD1	1:A:110:TYR:CZ	0.42	3.03	3	1
1:A:137:VAL:HG12	1:A:138:LYS:N	0.42	2.30	3	1
1:A:194:TRP:CZ3	1:A:196:LEU:CD2	0.42	2.99	6	1
1:A:79:CYS:HB2	1:A:82:ALA:HB3	0.42	1.92	15	1
1:A:170:LEU:O	1:A:170:LEU:HD22	0.41	2.14	10	1
1:A:171:ALA:O	1:A:175:TYR:CE1	0.41	2.74	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:110:TYR:CE2	1:A:163:GLU:O	0.41	2.74	16	6
1:A:109:GLU:OE1	1:A:162:MET:HE3	0.41	2.16	10	1
1:A:79:CYS:HB3	1:A:82:ALA:HB2	0.41	1.92	4	1
1:A:110:TYR:O	1:A:110:TYR:CD1	0.41	2.74	14	4
1:A:130:GLN:CG	1:A:177:ILE:CG2	0.41	2.99	16	2
1:A:77:LEU:CD2	1:A:110:TYR:CD1	0.41	3.04	19	1
1:A:122:ILE:HG22	1:A:123:VAL:N	0.41	2.31	19	1
1:A:129:ILE:HD13	1:A:180:ARG:CD	0.41	2.46	10	1
1:A:110:TYR:HE2	1:A:165:ALA:HB2	0.41	1.76	6	1
1:A:117:ARG:CD	1:A:117:ARG:C	0.41	2.94	6	1
1:A:94:LEU:CD2	1:A:97:PHE:CE1	0.41	3.02	9	1
1:A:148:SER:C	1:A:149:TYR:CG	0.41	2.99	13	6
1:A:134:ARG:CG	1:A:139:ILE:HD11	0.41	2.46	13	1
1:A:146:VAL:HG13	1:A:158:PHE:CB	0.41	2.45	14	1
1:A:183:ASP:OD1	1:A:189:HIS:CD2	0.41	2.74	3	2
1:A:72:VAL:CG2	1:A:181:PHE:CB	0.41	2.99	12	3
1:A:181:PHE:O	1:A:189:HIS:CD2	0.41	2.74	11	2
1:A:134:ARG:O	1:A:135:LYS:C	0.41	2.64	6	1
1:A:167:LYS:O	1:A:171:ALA:HB2	0.41	2.14	9	1
1:A:116:PHE:O	1:A:156:TYR:N	0.41	2.54	6	1
1:A:145:MET:O	1:A:158:PHE:CZ	0.41	2.74	10	1
1:A:116:PHE:CE1	1:A:156:TYR:O	0.41	2.74	12	1
1:A:202:TRP:CD1	1:A:202:TRP:N	0.41	2.89	13	2
1:A:97:PHE:CE2	1:A:192:TRP:CD1	0.41	3.08	15	1
1:A:146:VAL:O	1:A:158:PHE:CE1	0.41	2.74	17	2
1:A:133:TYR:CE1	1:A:138:LYS:CG	0.41	3.03	1	1
1:A:147:GLY:O	1:A:149:TYR:CE2	0.41	2.74	7	3
1:A:69:ASN:HD22	1:A:70:VAL:HG23	0.41	1.75	8	1
1:A:86:LEU:HB3	1:A:102:PHE:CE2	0.41	2.51	16	3
1:A:104:LEU:CD2	1:A:165:ALA:CB	0.41	2.99	10	1
1:A:127:LYS:HA	1:A:146:VAL:HG23	0.41	1.91	11	1
1:A:133:TYR:CE1	1:A:138:LYS:HG2	0.40	2.52	1	1
1:A:97:PHE:CD1	1:A:97:PHE:N	0.40	2.87	19	2
1:A:70:VAL:HG13	1:A:126:MET:HE1	0.40	1.92	9	1
1:A:116:PHE:CE1	1:A:149:TYR:CE2	0.40	3.09	1	1
1:A:149:TYR:CD1	1:A:156:TYR:CG	0.40	3.10	2	1
1:A:131:HIS:CG	1:A:141:LYS:HB2	0.40	2.51	3	1
1:A:116:PHE:CD1	1:A:116:PHE:O	0.40	2.74	6	2
1:A:114:ILE:HG21	1:A:181:PHE:HE2	0.40	1.67	15	2
1:A:154:GLU:O	1:A:156:TYR:CE1	0.40	2.74	9	1
1:A:131:HIS:ND1	1:A:141:LYS:CB	0.40	2.84	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:LEU:HD12	1:A:102:PHE:HE2	0.40	1.76	20	1
1:A:106:GLU:CG	1:A:172:ARG:NH1	0.40	2.84	4	1
1:A:202:TRP:C	1:A:202:TRP:CD1	0.40	2.97	10	1
1:A:146:VAL:HG22	1:A:158:PHE:CZ	0.40	2.51	12	1
1:A:116:PHE:C	1:A:116:PHE:CD1	0.40	2.99	18	1
1:A:72:VAL:HG22	1:A:181:PHE:CG	0.40	2.51	19	1
1:A:106:GLU:CB	1:A:168:GLY:N	0.40	2.84	20	1
1:A:155:GLU:C	1:A:156:TYR:CD1	0.40	3.00	5	1
1:A:86:LEU:HD22	1:A:102:PHE:CE1	0.40	2.51	14	1
1:A:177:ILE:HD12	1:A:194:TRP:CH2	0.40	2.51	17	1
1:A:90:LEU:HD21	1:A:192:TRP:NE1	0.40	2.32	19	1
1:A:113:LYS:CG	1:A:159:LEU:CD1	0.40	3.00	4	1
1:A:104:LEU:CD2	1:A:202:TRP:CH2	0.40	3.04	8	1
1:A:110:TYR:CD1	1:A:110:TYR:O	0.40	2.74	13	1
1:A:80:SER:OG	1:A:81:THR:N	0.40	2.55	17	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	132/145 (91%)	102±3 (77±3%)	27±3 (20±3%)	4±2 (3±1%)	6	41
All	All	2640/2900 (91%)	2031 (77%)	538 (20%)	71 (3%)	6	41

All 23 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	106	GLU	11
1	A	125	GLY	9
1	A	153	ALA	8
1	A	152	ARG	6
1	A	80	SER	4
1	A	93	ASP	3
1	A	203	LYS	3

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Mol	Chain	Res	Type	Models (Total)
1	A	135	LYS	3
1	A	92	GLY	3
1	A	124	SER	2
1	A	108	VAL	2
1	A	162	MET	2
1	A	156	TYR	2
1	A	169	MET	2
1	A	69	ASN	2
1	A	79	CYS	2
1	A	137	VAL	1
1	A	166	PRO	1
1	A	154	GLU	1
1	A	151	PRO	1
1	A	167	LYS	1
1	A	168	GLY	1
1	A	82	ALA	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	120/130 (92%)	104±4 (86±3%)	16±4 (14±3%)	6	45
All	All	2400/2600 (92%)	2073 (86%)	327 (14%)	6	45

All 65 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	159	LEU	16
1	A	126	MET	14
1	A	141	LYS	14
1	A	120	ARG	12
1	A	139	ILE	11
1	A	200	LYS	11
1	A	77	LEU	11
1	A	203	LYS	10
1	A	135	LYS	8

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Mol	Chain	Res	Type	Models (Total)
1	A	138	LYS	8
1	A	178	LYS	8
1	A	162	MET	7
1	A	170	LEU	7
1	A	79	CYS	7
1	A	155	GLU	7
1	A	109	GLU	6
1	A	88	LEU	6
1	A	117	ARG	6
1	A	164	GLU	6
1	A	199	LYS	6
1	A	90	LEU	6
1	A	127	LYS	6
1	A	167	LYS	6
1	A	96	SER	6
1	A	180	ARG	6
1	A	80	SER	5
1	A	94	LEU	5
1	A	104	LEU	5
1	A	105	LYS	5
1	A	145	MET	5
1	A	113	LYS	5
1	A	172	ARG	5
1	A	152	ARG	5
1	A	176	ASN	5
1	A	98	LYS	4
1	A	111	ARG	4
1	A	169	MET	4
1	A	134	ARG	4
1	A	99	LYS	4
1	A	119	ASN	4
1	A	100	GLN	4
1	A	201	GLU	3
1	A	69	ASN	3
1	A	157	GLU	3
1	A	75	LEU	3
1	A	95	GLU	3
1	A	74	ARG	3
1	A	193	GLU	2
1	A	140	ASP	2
1	A	87	GLU	2
1	A	154	GLU	2

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Mol	Chain	Res	Type	Models (Total)
1	A	89	ASP	2
1	A	115	SER	2
1	A	124	SER	2
1	A	110	TYR	1
1	A	181	PHE	1
1	A	132	THR	1
1	A	163	GLU	1
1	A	106	GLU	1
1	A	196	LEU	1
1	A	204	ASP	1
1	A	179	SER	1
1	A	121	GLU	1
1	A	101	SER	1
1	A	93	ASP	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 oligosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 7 Chemical shift validation

No chemical shift data were provided