



Full wwPDB NMR Structure Validation Report ⓘ

Mar 23, 2026 – 04:45 PM UTC

PDB ID : 2DM7 / pdb_00002dm7
Title : Solution structure of the 14th Ig-like domain of human KIAA1556 protein
Authors : Nagashima, K.; Kurosaki, C.; Yoshida, M.; Hayashi, F.; Yokoyama, S.; RIKEN
Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2006-04-20

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

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 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

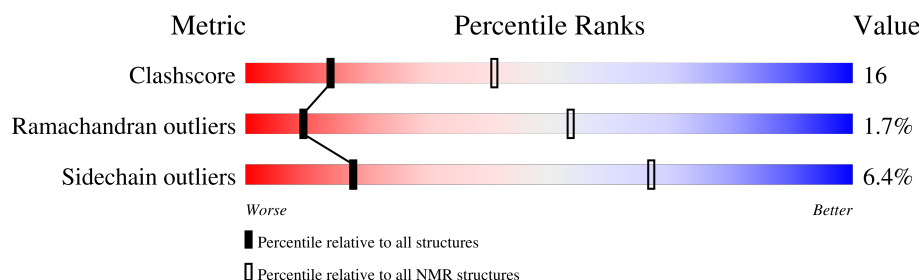
1 Overall quality at a glance

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 ≥ 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	108	

2 Ensemble composition and analysis

This entry contains 20 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:9-A:49, A:53-A:95 (84)	0.40	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 5 clusters and 3 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1563 atoms, of which 771 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called KIAA1556 protein.

Mol	Chain	Residues	Atoms						Trace
1	A	108	Total	C	H	N	O	S	0
			1563	478	771	143	166	5	

There are 13 discrepancies between the modelled and reference sequences:

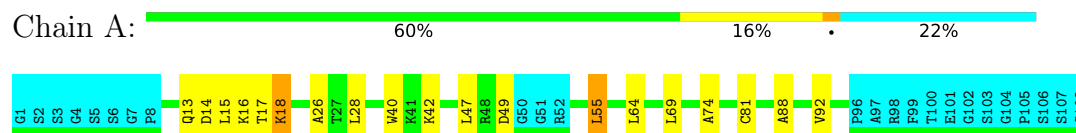
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	cloning artifact	UNP Q8NHN3
A	2	SER	-	cloning artifact	UNP Q8NHN3
A	3	SER	-	cloning artifact	UNP Q8NHN3
A	4	GLY	-	cloning artifact	UNP Q8NHN3
A	5	SER	-	cloning artifact	UNP Q8NHN3
A	6	SER	-	cloning artifact	UNP Q8NHN3
A	7	GLY	-	cloning artifact	UNP Q8NHN3
A	103	SER	-	cloning artifact	UNP Q8NHN3
A	104	GLY	-	cloning artifact	UNP Q8NHN3
A	105	PRO	-	cloning artifact	UNP Q8NHN3
A	106	SER	-	cloning artifact	UNP Q8NHN3
A	107	SER	-	cloning artifact	UNP Q8NHN3
A	108	GLY	-	cloning artifact	UNP Q8NHN3

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: KIAA1556 protein

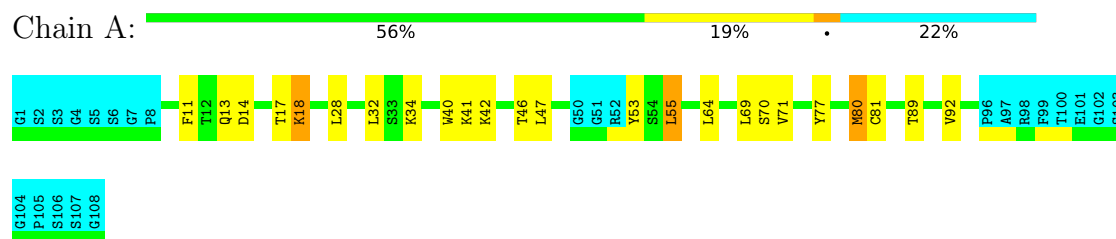


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

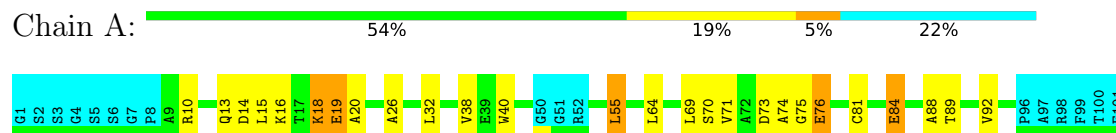
4.2.1 Score per residue for model 1

- Molecule 1: KIAA1556 protein



4.2.2 Score per residue for model 2

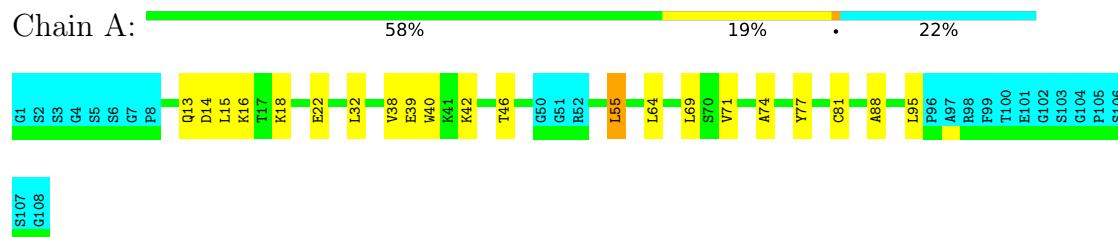
- Molecule 1: KIAA1556 protein





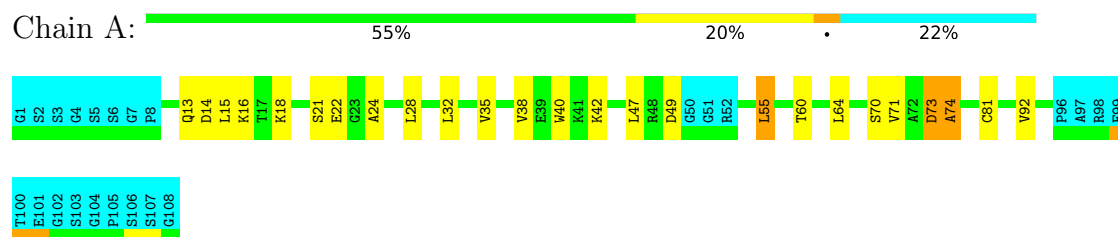
4.2.3 Score per residue for model 3

- Molecule 1: KIAA1556 protein



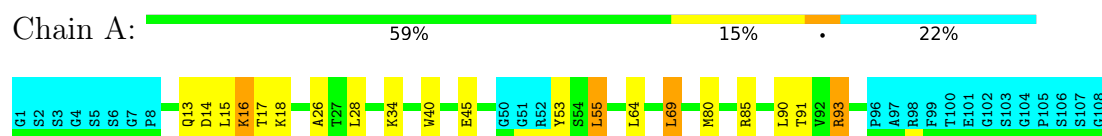
4.2.4 Score per residue for model 4

- Molecule 1: KIAA1556 protein



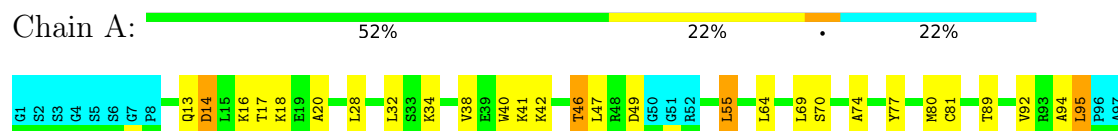
4.2.5 Score per residue for model 5

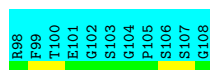
- Molecule 1: KIAA1556 protein



4.2.6 Score per residue for model 6

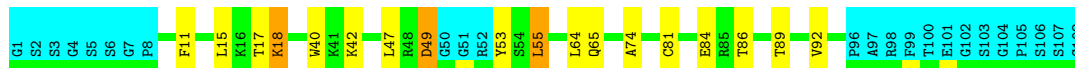
- Molecule 1: KIAA1556 protein





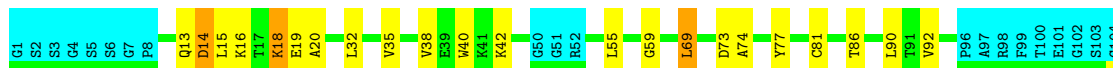
4.2.7 Score per residue for model 7

- Molecule 1: KIAA1556 protein



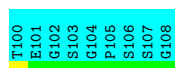
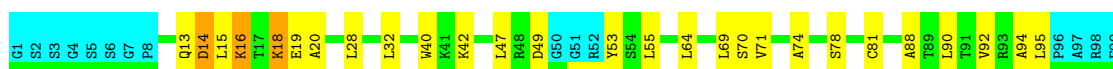
4.2.8 Score per residue for model 8

- Molecule 1: KIAA1556 protein



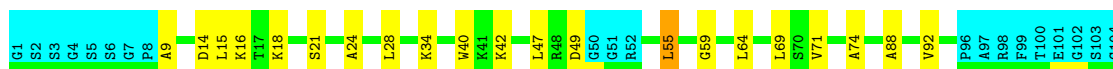
4.2.9 Score per residue for model 9

- Molecule 1: KIAA1556 protein



4.2.10 Score per residue for model 10 (medoid)

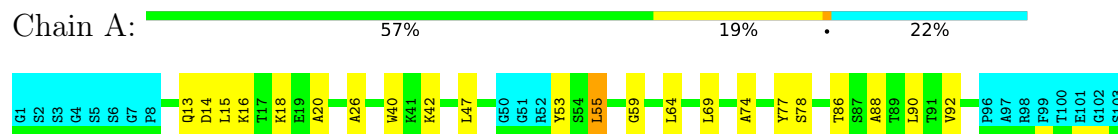
- Molecule 1: KIAA1556 protein



P105
S106
S107
G108

4.2.11 Score per residue for model 11

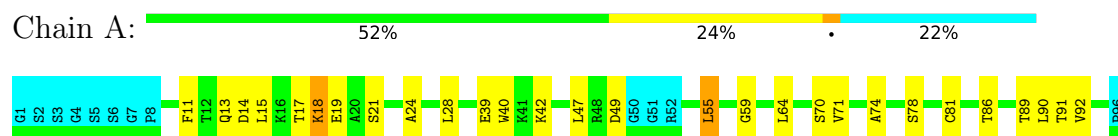
- Molecule 1: KIAA1556 protein



G104
P105
S106
S107
G108

4.2.12 Score per residue for model 12

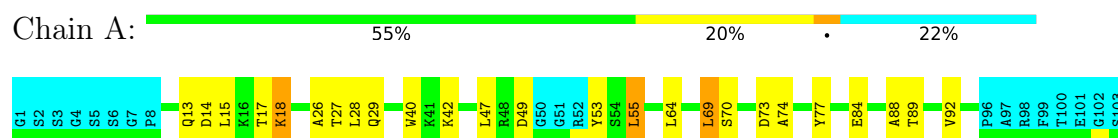
- Molecule 1: KIAA1556 protein



A97
R98
F99
T100
E101
S102
S103
G104
P105
S106
S107
G108

4.2.13 Score per residue for model 13

- Molecule 1: KIAA1556 protein



G104
P105
S106
S107
G108

4.2.14 Score per residue for model 14

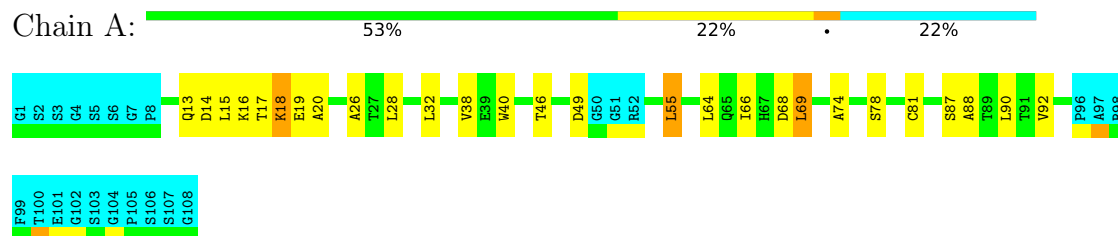
- Molecule 1: KIAA1556 protein





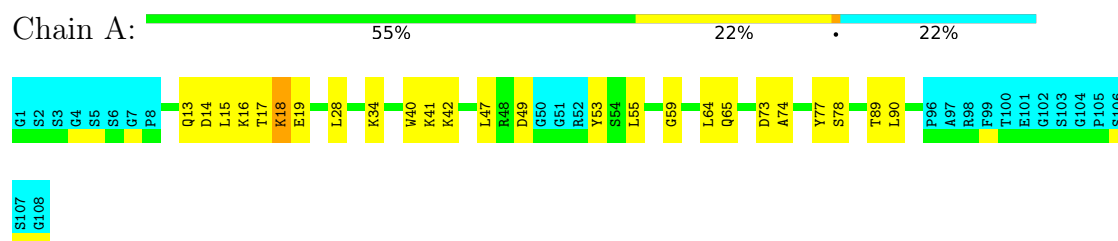
4.2.15 Score per residue for model 15

- Molecule 1: KIAA1556 protein



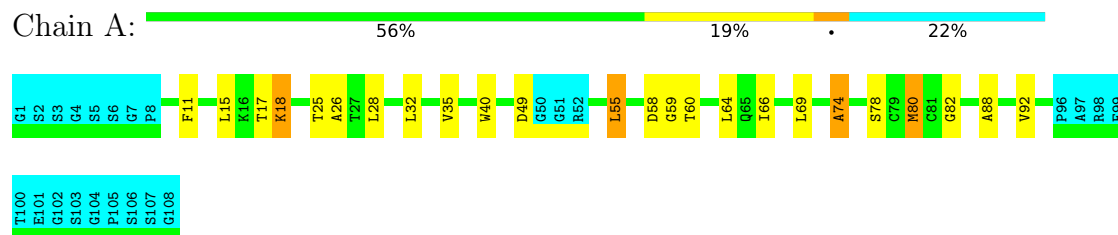
4.2.16 Score per residue for model 16

- Molecule 1: KIAA1556 protein



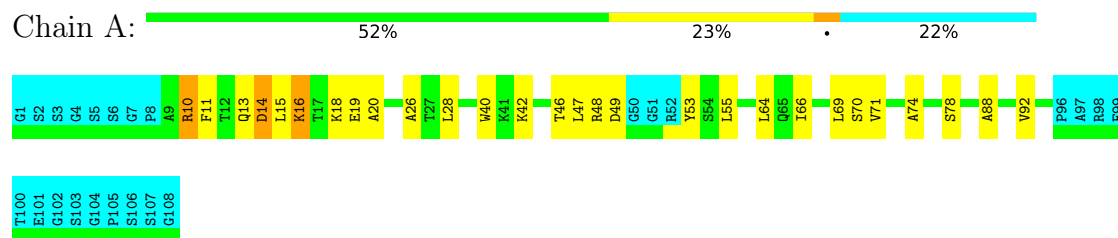
4.2.17 Score per residue for model 17

- Molecule 1: KIAA1556 protein



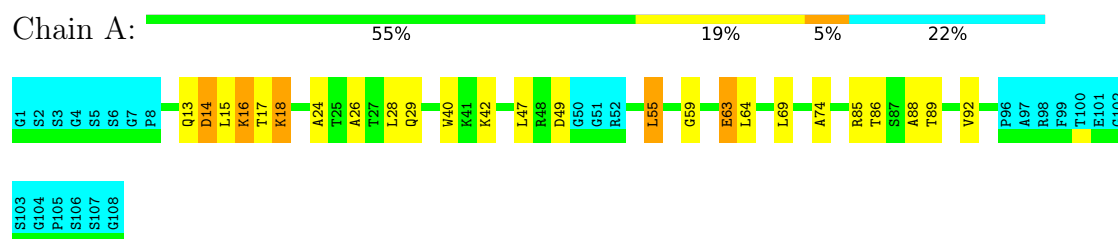
4.2.18 Score per residue for model 18

- Molecule 1: KIAA1556 protein



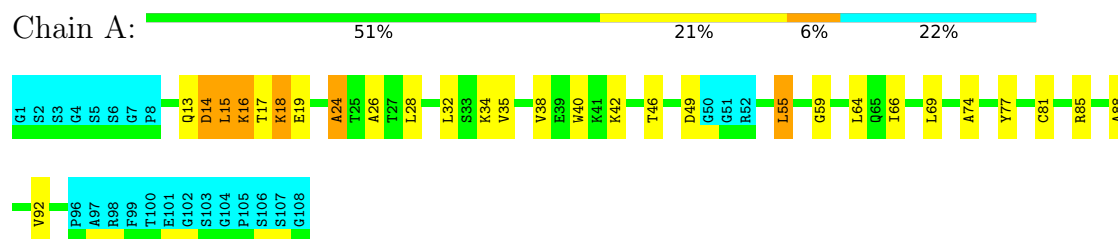
4.2.19 Score per residue for model 19

- Molecule 1: KIAA1556 protein



4.2.20 Score per residue for model 20

- Molecule 1: KIAA1556 protein



5 Refinement protocol and experimental data overview ⓘ

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

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

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

Software name	Classification	Version
CYANA	structure solution	2.0.17
CYANA	refinement	2.0.17

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	643	638	637	20±5
All	All	12860	12760	12740	402

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 16.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:TRP:CD1	1:A:55:LEU:HD23	0.87	2.04	15	11
1:A:40:TRP:CD1	1:A:55:LEU:HD22	0.86	2.05	7	1
1:A:20:ALA:HB3	1:A:69:LEU:CD1	0.85	2.01	18	6
1:A:40:TRP:CE3	1:A:64:LEU:HD22	0.84	2.06	3	16
1:A:26:ALA:HB2	1:A:69:LEU:HD21	0.82	1.47	20	4
1:A:74:ALA:HB2	1:A:92:VAL:CG2	0.81	2.04	4	14
1:A:74:ALA:HB2	1:A:92:VAL:HG23	0.81	1.52	18	11
1:A:15:LEU:HD23	1:A:16:LYS:N	0.80	1.92	19	14
1:A:28:LEU:HD13	1:A:64:LEU:HD23	0.76	1.54	4	10
1:A:47:LEU:HD22	1:A:53:TYR:CE2	0.76	2.16	7	2
1:A:15:LEU:HD22	1:A:88:ALA:CB	0.75	2.11	9	9
1:A:41:LYS:HB2	1:A:80:MET:HE1	0.74	1.59	1	2
1:A:18:LYS:NZ	1:A:20:ALA:HB2	0.74	1.97	11	2
1:A:20:ALA:HB3	1:A:69:LEU:HD13	0.72	1.61	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:LEU:HB3	1:A:88:ALA:HB2	0.72	1.60	20	10
1:A:26:ALA:CB	1:A:66:ILE:HD12	0.71	2.16	14	3
1:A:55:LEU:HD12	1:A:55:LEU:N	0.69	2.02	13	8
1:A:40:TRP:CD1	1:A:55:LEU:CD2	0.69	2.76	15	9
1:A:64:LEU:HD12	1:A:65:GLN:N	0.67	2.04	7	2
1:A:47:LEU:CD2	1:A:53:TYR:CE2	0.67	2.77	16	2
1:A:15:LEU:HD21	1:A:28:LEU:HB3	0.65	1.68	20	4
1:A:15:LEU:HD23	1:A:16:LYS:H	0.65	1.51	9	6
1:A:42:LYS:HB2	1:A:47:LEU:HD11	0.64	1.67	18	9
1:A:26:ALA:HB2	1:A:69:LEU:HD11	0.64	1.68	2	6
1:A:47:LEU:HD22	1:A:53:TYR:CD2	0.63	2.28	16	1
1:A:40:TRP:CE3	1:A:64:LEU:CD2	0.61	2.82	3	7
1:A:80:MET:HE2	1:A:85:ARG:HE	0.60	1.55	5	1
1:A:17:THR:HG21	1:A:89:THR:O	0.59	1.97	12	8
1:A:40:TRP:CD2	1:A:64:LEU:HD22	0.58	2.33	3	2
1:A:49:ASP:HB3	1:A:55:LEU:HD13	0.58	1.74	9	4
1:A:28:LEU:C	1:A:29:GLN:CD	0.58	2.70	19	2
1:A:49:ASP:CB	1:A:55:LEU:HD13	0.58	2.28	9	5
1:A:38:VAL:HG12	1:A:81:CYS:HB2	0.57	1.77	2	4
1:A:40:TRP:CD1	1:A:55:LEU:HD13	0.57	2.35	11	7
1:A:32:LEU:HD22	1:A:81:CYS:SG	0.57	2.40	4	9
1:A:20:ALA:HB3	1:A:69:LEU:HD12	0.56	1.78	9	1
1:A:26:ALA:CB	1:A:69:LEU:HD21	0.55	2.29	20	1
1:A:9:ALA:HB2	1:A:34:LYS:HG3	0.54	1.78	10	1
1:A:55:LEU:HD12	1:A:55:LEU:H	0.54	1.61	15	2
1:A:18:LYS:HE2	1:A:20:ALA:HB2	0.53	1.80	14	1
1:A:18:LYS:O	1:A:90:LEU:HD12	0.53	2.02	8	6
1:A:55:LEU:HG	1:A:64:LEU:HD13	0.52	1.81	20	3
1:A:18:LYS:CE	1:A:20:ALA:HB2	0.52	2.34	11	1
1:A:15:LEU:HD11	1:A:40:TRP:CZ3	0.52	2.40	13	2
1:A:41:LYS:HE3	1:A:46:THR:HG23	0.52	1.82	6	2
1:A:74:ALA:HB2	1:A:92:VAL:CB	0.52	2.34	6	2
1:A:15:LEU:HD22	1:A:88:ALA:HB2	0.52	1.81	9	2
1:A:70:SER:O	1:A:92:VAL:HG11	0.51	2.05	6	2
1:A:74:ALA:HB2	1:A:92:VAL:HB	0.51	1.80	6	5
1:A:40:TRP:CG	1:A:55:LEU:HD23	0.51	2.41	1	4
1:A:49:ASP:N	1:A:55:LEU:HD12	0.50	2.21	7	1
1:A:18:LYS:NZ	1:A:90:LEU:HD11	0.50	2.21	14	1
1:A:40:TRP:CG	1:A:55:LEU:HD22	0.50	2.40	7	1
1:A:75:GLY:O	1:A:89:THR:HG23	0.50	2.06	2	1
1:A:17:THR:HG21	1:A:90:LEU:HA	0.50	1.84	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:LEU:HD12	1:A:86:THR:HG23	0.50	1.82	11	2
1:A:19:GLU:CG	1:A:19:GLU:O	0.50	2.60	15	3
1:A:11:PHE:CE2	1:A:81:CYS:HB3	0.50	2.42	7	2
1:A:42:LYS:CG	1:A:42:LYS:O	0.50	2.60	7	2
1:A:78:SER:HB2	1:A:80:MET:HE1	0.50	1.84	17	1
1:A:11:PHE:HA	1:A:32:LEU:HD23	0.49	1.84	17	1
1:A:49:ASP:O	1:A:49:ASP:CG	0.49	2.56	10	3
1:A:28:LEU:C	1:A:29:GLN:NE2	0.49	2.71	19	1
1:A:70:SER:C	1:A:92:VAL:HG11	0.49	2.33	12	5
1:A:14:ASP:O	1:A:15:LEU:C	0.49	2.56	2	1
1:A:41:LYS:N	1:A:78:SER:O	0.48	2.46	16	2
1:A:35:VAL:HG13	1:A:35:VAL:O	0.48	2.08	17	1
1:A:24:ALA:HB3	1:A:69:LEU:HD12	0.48	1.84	14	2
1:A:13:GLN:O	1:A:14:ASP:C	0.47	2.57	1	17
1:A:49:ASP:CG	1:A:49:ASP:O	0.47	2.57	14	1
1:A:38:VAL:HG12	1:A:81:CYS:CB	0.47	2.40	3	4
1:A:25:THR:HG23	1:A:66:ILE:O	0.47	2.09	17	1
1:A:20:ALA:CB	1:A:69:LEU:CD1	0.47	2.85	18	1
1:A:38:VAL:HG12	1:A:81:CYS:SG	0.46	2.50	20	2
1:A:64:LEU:HD12	1:A:65:GLN:H	0.46	1.70	7	2
1:A:42:LYS:HD2	1:A:77:TYR:CE2	0.46	2.45	13	7
1:A:94:ALA:O	1:A:95:LEU:C	0.46	2.59	9	2
1:A:16:LYS:CE	1:A:17:THR:O	0.46	2.64	19	1
1:A:29:GLN:CD	1:A:29:GLN:N	0.46	2.73	19	2
1:A:15:LEU:HD22	1:A:88:ALA:HB3	0.46	1.85	20	1
1:A:16:LYS:CB	1:A:29:GLN:O	0.45	2.65	19	1
1:A:17:THR:HG21	1:A:89:THR:C	0.45	2.37	12	2
1:A:70:SER:O	1:A:73:ASP:N	0.45	2.49	4	3
1:A:26:ALA:HB3	1:A:66:ILE:HD12	0.45	1.89	15	2
1:A:49:ASP:OD1	1:A:49:ASP:C	0.45	2.59	7	1
1:A:29:GLN:OE1	1:A:63:GLU:CG	0.45	2.65	19	1
1:A:39:GLU:CD	1:A:46:THR:CG2	0.45	2.90	3	1
1:A:19:GLU:CD	1:A:93:ARG:CZ	0.45	2.90	14	1
1:A:10:ARG:NH1	1:A:11:PHE:O	0.45	2.50	18	1
1:A:17:THR:OG1	1:A:18:LYS:N	0.44	2.50	7	6
1:A:91:THR:HG22	1:A:93:ARG:NE	0.44	2.27	5	1
1:A:21:SER:O	1:A:24:ALA:HB3	0.44	2.12	12	2
1:A:53:TYR:CE1	1:A:66:ILE:HG23	0.44	2.47	18	1
1:A:28:LEU:HD13	1:A:64:LEU:CD2	0.44	2.36	16	1
1:A:42:LYS:O	1:A:42:LYS:CG	0.43	2.65	10	1
1:A:19:GLU:OE2	1:A:93:ARG:NH1	0.43	2.50	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:LYS:N	1:A:47:LEU:CD1	0.43	2.81	11	1
1:A:29:GLN:NE2	1:A:29:GLN:N	0.43	2.66	19	1
1:A:21:SER:O	1:A:22:GLU:C	0.43	2.62	4	1
1:A:55:LEU:HD23	1:A:55:LEU:N	0.43	2.28	3	1
1:A:63:GLU:OE1	1:A:63:GLU:C	0.43	2.61	19	1
1:A:59:GLY:O	1:A:60:THR:C	0.43	2.62	14	2
1:A:58:ASP:O	1:A:59:GLY:C	0.43	2.60	17	2
1:A:80:MET:SD	1:A:80:MET:N	0.43	2.92	17	1
1:A:22:GLU:CD	1:A:71:VAL:HG13	0.43	2.39	3	1
1:A:39:GLU:CD	1:A:47:LEU:O	0.43	2.62	12	1
1:A:49:ASP:CA	1:A:55:LEU:HD13	0.42	2.44	13	1
1:A:47:LEU:C	1:A:48:ARG:HD3	0.42	2.39	14	2
1:A:18:LYS:HD3	1:A:18:LYS:C	0.42	2.40	16	6
1:A:16:LYS:HD2	1:A:17:THR:N	0.42	2.30	15	1
1:A:84:GLU:N	1:A:84:GLU:CD	0.42	2.77	2	1
1:A:49:ASP:CB	1:A:55:LEU:HD12	0.42	2.44	7	1
1:A:42:LYS:HD2	1:A:77:TYR:CZ	0.42	2.50	1	2
1:A:74:ALA:CB	1:A:92:VAL:HG23	0.42	2.33	18	1
1:A:19:GLU:O	1:A:19:GLU:CD	0.42	2.62	2	1
1:A:35:VAL:N	1:A:60:THR:HG22	0.42	2.29	4	1
1:A:42:LYS:N	1:A:47:LEU:HD11	0.42	2.30	11	1
1:A:11:PHE:CE1	1:A:81:CYS:HB3	0.41	2.50	1	1
1:A:78:SER:HB2	1:A:80:MET:CE	0.41	2.45	17	1
1:A:70:SER:O	1:A:71:VAL:C	0.41	2.64	2	2
1:A:10:ARG:HD3	1:A:10:ARG:C	0.41	2.40	18	1
1:A:55:LEU:HD23	1:A:64:LEU:HD13	0.41	1.91	7	1
1:A:25:THR:O	1:A:26:ALA:C	0.41	2.64	14	1
1:A:16:LYS:HE3	1:A:17:THR:N	0.41	2.29	19	1
1:A:42:LYS:CB	1:A:47:LEU:HD11	0.41	2.45	7	1
1:A:55:LEU:N	1:A:55:LEU:CD1	0.41	2.74	13	1
1:A:85:ARG:CZ	1:A:85:ARG:HB3	0.41	2.46	20	1
1:A:55:LEU:CD2	1:A:64:LEU:HD13	0.41	2.46	7	1
1:A:22:GLU:O	1:A:95:LEU:HD21	0.41	2.16	3	1
1:A:15:LEU:HB3	1:A:86:THR:CG2	0.41	2.46	12	1
1:A:18:LYS:HG2	1:A:19:GLU:N	0.41	2.31	9	2
1:A:27:THR:HG22	1:A:29:GLN:OE1	0.41	2.16	13	1
1:A:25:THR:O	1:A:26:ALA:O	0.40	2.40	14	1
1:A:19:GLU:OE1	1:A:19:GLU:N	0.40	2.54	16	1
1:A:16:LYS:HD3	1:A:16:LYS:C	0.40	2.41	3	1
1:A:90:LEU:HG	1:A:91:THR:N	0.40	2.31	12	1
1:A:85:ARG:HG2	1:A:86:THR:N	0.40	2.32	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:LEU:HB2	1:A:86:THR:HG21	0.40	1.93	7	1
1:A:40:TRP:CE2	1:A:64:LEU:HB2	0.40	2.51	19	1
1:A:76:GLU:C	1:A:76:GLU:OE1	0.40	2.65	2	1
1:A:35:VAL:HG22	1:A:59:GLY:C	0.40	2.42	8	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	84/108 (78%)	74±1 (88±2%)	9±1 (11±2%)	1±1 (2±1%)	9	53
All	All	1680/2160 (78%)	1472 (88%)	179 (11%)	29 (2%)	9	53

All 9 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	69	LEU	7
1	A	59	GLY	7
1	A	74	ALA	4
1	A	14	ASP	4
1	A	24	ALA	3
1	A	95	LEU	1
1	A	26	ALA	1
1	A	82	GLY	1
1	A	35	VAL	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	70/85 (82%)	66±2 (94±2%)	4±2 (6±2%)	18	67
All	All	1400/1700 (82%)	1310 (94%)	90 (6%)	18	67

All 22 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	18	LYS	19
1	A	55	LEU	16
1	A	16	LYS	6
1	A	71	VAL	5
1	A	46	THR	5
1	A	49	ASP	5
1	A	78	SER	5
1	A	34	LYS	3
1	A	10	ARG	3
1	A	19	GLU	3
1	A	84	GLU	3
1	A	73	ASP	3
1	A	14	ASP	3
1	A	80	MET	2
1	A	76	GLU	2
1	A	45	GLU	1
1	A	93	ARG	1
1	A	60	THR	1
1	A	68	ASP	1
1	A	87	SER	1
1	A	63	GLU	1
1	A	15	LEU	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 oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

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