



Full wwPDB NMR Structure Validation Report ⓘ

Feb 12, 2017 – 10:19 pm GMT

PDB ID : 2JQD
Title : Structure of the Leucine-Rich Repeat domain of LANP
Authors : de Chiara, C.; Pastore, A.
Deposited on : 2007-05-31

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
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : trunk28760
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

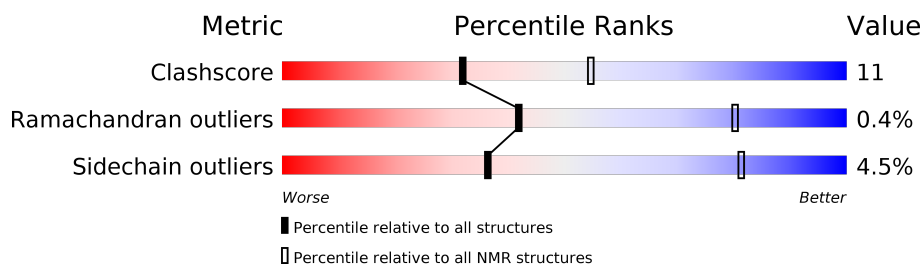
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment 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	125131	11601
Ramachandran outliers	121729	10391
Sidechain outliers	121581	10367

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 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	169	

2 Ensemble composition and analysis

This entry contains 10 models. Model 7 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *regularity of secondary structures*.

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:2-A:155 (154)	0.41	7

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. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 5, 6, 7, 8, 9
2	4, 10

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2657 atoms, of which 1341 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Acidic leucine-rich nuclear phosphoprotein 32 family member A.

Mol	Chain	Residues	Atoms						Trace
1	A	164	Total	C	H	N	O	S	0
			2657	828	1341	217	265	6	

There are 5 discrepancies between the modelled and reference sequences:

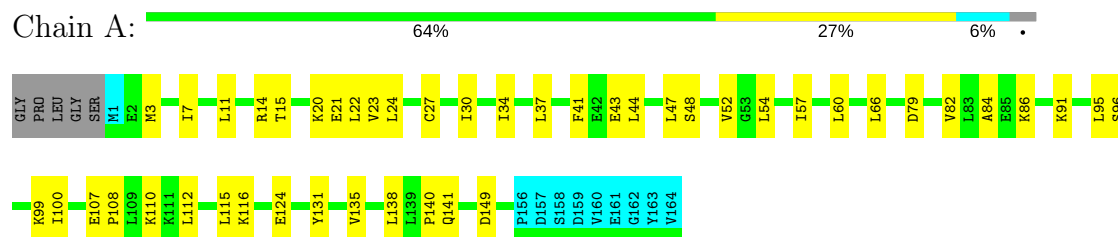
Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	EXPRESSION TAG	UNP O35381
A	-3	PRO	-	EXPRESSION TAG	UNP O35381
A	-2	LEU	-	EXPRESSION TAG	UNP O35381
A	-1	GLY	-	EXPRESSION TAG	UNP O35381
A	0	SER	-	EXPRESSION TAG	UNP O35381

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: Acidic leucine-rich nuclear phosphoprotein 32 family member A

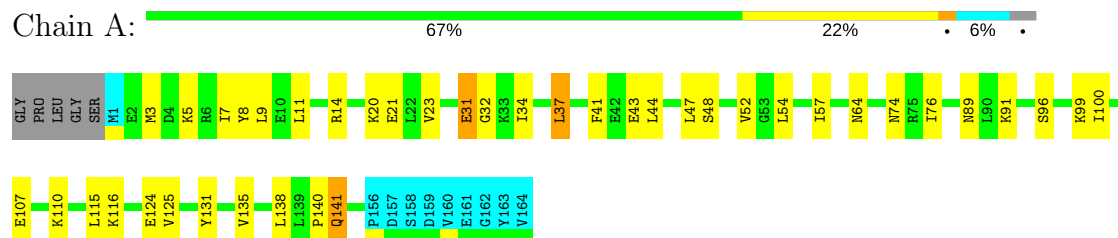


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

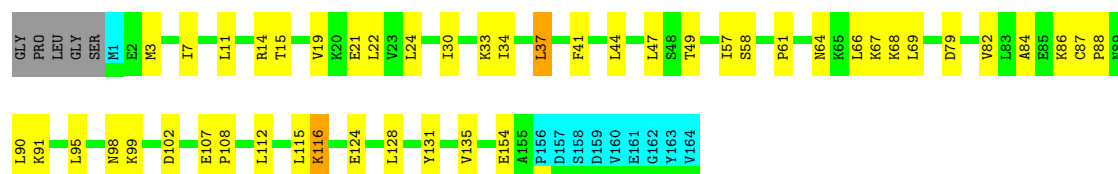
- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



4.2.2 Score per residue for model 2

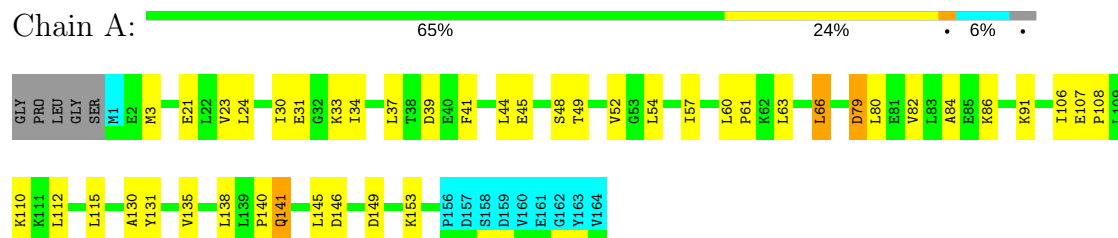
- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A





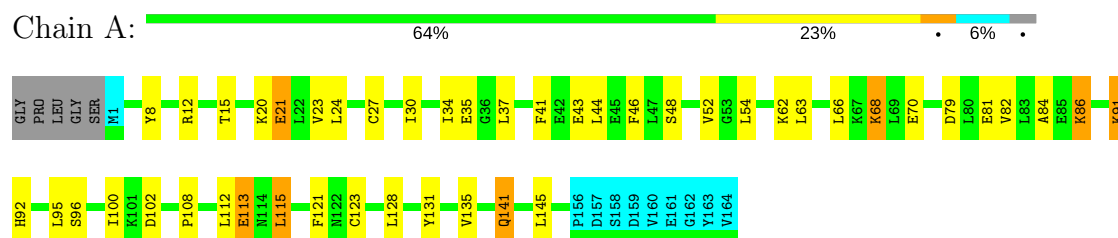
4.2.3 Score per residue for model 3

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



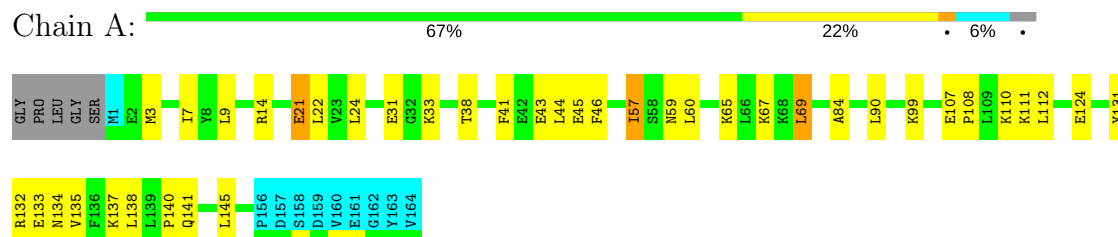
4.2.4 Score per residue for model 4

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



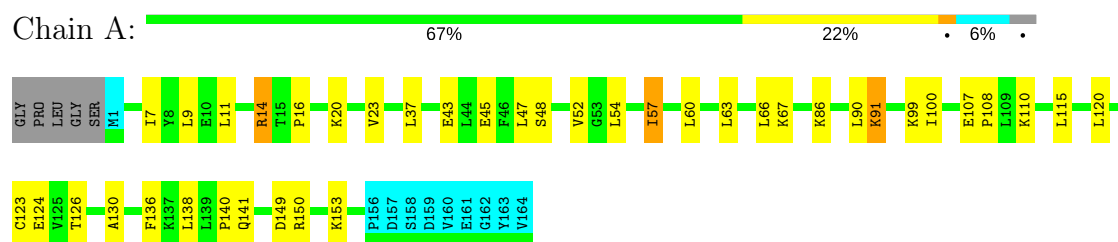
4.2.5 Score per residue for model 5

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



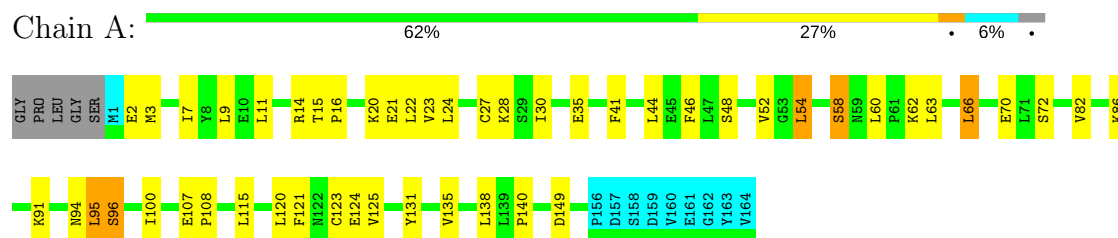
4.2.6 Score per residue for model 6

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



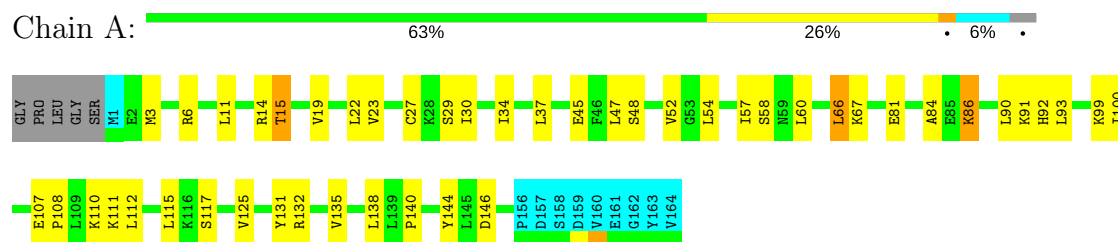
4.2.7 Score per residue for model 7 (medoid)

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



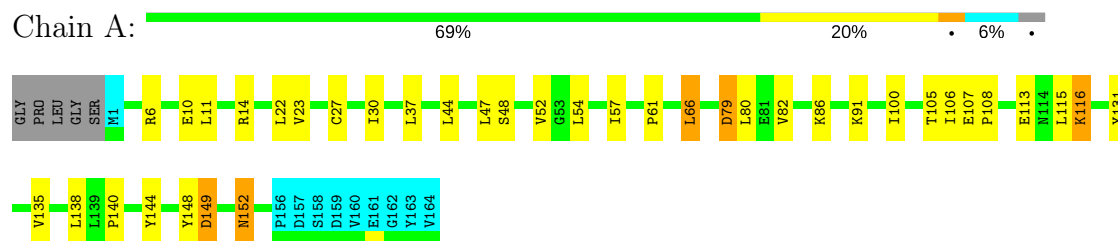
4.2.8 Score per residue for model 8

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



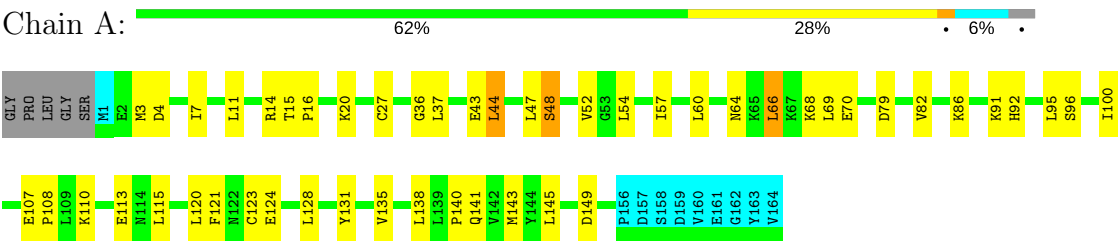
4.2.9 Score per residue for model 9

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



4.2.10 Score per residue for model 10

- Molecule 1: Acidic leucine-rich nuclear phosphoprotein 32 family member A



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	structure solution	1.2
ARIA	refinement	1.2

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	1239	1277	1276	27±4
All	All	12390	12770	12760	272

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 11.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:GLU:HB3	1:A:67:LYS:HD2	0.79	1.54	8	2
1:A:134:ASN:HA	1:A:137:LYS:HE2	0.76	1.57	5	1
1:A:96:SER:HA	1:A:123:CYS:SG	0.76	2.20	7	1
1:A:3:MET:HG3	1:A:24:LEU:HG	0.73	1.58	7	1
1:A:81:GLU:HB3	1:A:108:PRO:HB3	0.71	1.59	8	2
1:A:20:LYS:HG3	1:A:21:GLU:HG3	0.70	1.63	7	1
1:A:37:LEU:HD21	1:A:47:LEU:HD11	0.68	1.65	10	2
1:A:52:VAL:HG23	1:A:54:LEU:HD23	0.67	1.67	3	1
1:A:120:LEU:HB3	1:A:123:CYS:SG	0.64	2.33	6	1
1:A:149:ASP:HB3	1:A:153:LYS:HB2	0.63	1.69	6	2
1:A:30:ILE:HD12	1:A:30:ILE:H	0.63	1.53	3	4
1:A:66:LEU:HB3	1:A:90:LEU:HD13	0.63	1.69	6	1
1:A:120:LEU:HA	1:A:123:CYS:SG	0.62	2.35	10	2
1:A:95:LEU:HD23	1:A:100:ILE:HG13	0.61	1.70	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:57:ILE:O	1:A:60:LEU:HG	0.61	1.96	6	3
1:A:107:GLU:O	1:A:110:LYS:HG2	0.60	1.96	3	6
1:A:84:ALA:HB2	1:A:112:LEU:HG	0.60	1.71	8	1
1:A:91:LYS:HA	1:A:115:LEU:HA	0.60	1.74	7	9
1:A:31:GLU:HG3	1:A:32:GLY:H	0.59	1.57	1	1
1:A:60:LEU:HB2	1:A:86:LYS:HD2	0.59	1.74	6	5
1:A:99:LYS:HD2	1:A:99:LYS:N	0.59	2.12	8	1
1:A:100:ILE:HG23	1:A:105:THR:HB	0.58	1.76	9	1
1:A:3:MET:SD	1:A:24:LEU:HD12	0.58	2.38	5	1
1:A:99:LYS:HA	1:A:124:GLU:HG3	0.57	1.76	1	3
1:A:96:SER:HB3	1:A:121:PHE:O	0.57	1.99	7	2
1:A:84:ALA:HA	1:A:112:LEU:HD21	0.57	1.76	5	4
1:A:52:VAL:HG23	1:A:54:LEU:HG	0.56	1.77	4	5
1:A:138:LEU:O	1:A:140:PRO:HD3	0.56	2.00	8	8
1:A:3:MET:HB2	1:A:29:SER:HA	0.56	1.76	8	1
1:A:43:GLU:HA	1:A:65:LYS:HD2	0.56	1.77	5	1
1:A:107:GLU:N	1:A:108:PRO:HD2	0.55	2.16	3	3
1:A:6:ARG:HG3	1:A:27:CYS:SG	0.55	2.41	9	2
1:A:107:GLU:HA	1:A:138:LEU:HD21	0.55	1.77	1	5
1:A:23:VAL:HG13	1:A:48:SER:HB2	0.55	1.78	7	6
1:A:68:LYS:HA	1:A:92:HIS:HB3	0.55	1.77	4	1
1:A:58:SER:HA	1:A:82:VAL:HG21	0.54	1.78	7	2
1:A:3:MET:SD	1:A:34:ILE:HA	0.54	2.42	2	2
1:A:117:SER:HA	1:A:144:TYR:O	0.54	2.02	8	1
1:A:64:ASN:HA	1:A:88:PRO:HG2	0.54	1.79	2	1
1:A:95:LEU:HA	1:A:98:ASN:OD1	0.53	2.03	2	1
1:A:34:ILE:CG2	1:A:37:LEU:HB2	0.53	2.33	4	1
1:A:27:CYS:O	1:A:52:VAL:HA	0.53	2.04	8	3
1:A:99:LYS:HA	1:A:124:GLU:CG	0.53	2.34	2	3
1:A:100:ILE:O	1:A:124:GLU:HB2	0.53	2.03	6	3
1:A:7:ILE:HG12	1:A:22:LEU:HD21	0.52	1.78	5	2
1:A:52:VAL:HG22	1:A:54:LEU:HD21	0.52	1.81	7	1
1:A:41:PHE:HB2	1:A:63:LEU:HD22	0.52	1.82	7	3
1:A:21:GLU:HA	1:A:46:PHE:O	0.52	2.04	4	3
1:A:52:VAL:HG22	1:A:54:LEU:CD2	0.52	2.35	7	1
1:A:8:TYR:O	1:A:12:ARG:HG3	0.51	2.05	4	1
1:A:11:LEU:HA	1:A:14:ARG:O	0.51	2.06	9	6
1:A:24:LEU:HB3	1:A:27:CYS:SG	0.51	2.46	4	1
1:A:7:ILE:HG13	1:A:36:GLY:HA3	0.51	1.82	10	1
1:A:90:LEU:HD21	1:A:93:LEU:HD23	0.51	1.83	8	1
1:A:131:TYR:O	1:A:135:VAL:HG23	0.51	2.05	4	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:132:ARG:HG2	1:A:145:LEU:HD22	0.51	1.83	5	1
1:A:48:SER:HA	1:A:70:GLU:HB2	0.51	1.82	10	1
1:A:15:THR:HB	1:A:16:PRO:HD2	0.50	1.83	7	2
1:A:23:VAL:CG2	1:A:48:SER:HB2	0.50	2.36	4	1
1:A:61:PRO:O	1:A:86:LYS:HB3	0.49	2.07	2	2
1:A:41:PHE:HB3	1:A:44:LEU:HB2	0.49	1.84	5	6
1:A:91:LYS:HB3	1:A:116:LYS:HG2	0.49	1.82	2	2
1:A:34:ILE:HG21	1:A:37:LEU:HB2	0.49	1.84	4	3
1:A:115:LEU:O	1:A:141:GLN:HB2	0.49	2.08	1	2
1:A:133:GLU:O	1:A:137:LYS:HG3	0.49	2.07	5	1
1:A:79:ASP:O	1:A:82:VAL:HG12	0.48	2.07	2	5
1:A:44:LEU:O	1:A:66:LEU:HA	0.48	2.08	10	2
1:A:45:GLU:HB3	1:A:67:LYS:HE2	0.48	1.83	5	1
1:A:41:PHE:HB2	1:A:63:LEU:CD2	0.48	2.38	3	2
1:A:37:LEU:HD21	1:A:47:LEU:HD13	0.48	1.85	6	1
1:A:100:ILE:O	1:A:125:VAL:HG13	0.48	2.09	1	3
1:A:64:ASN:HA	1:A:88:PRO:CG	0.48	2.39	2	1
1:A:24:LEU:O	1:A:49:THR:HA	0.47	2.10	2	2
1:A:148:TYR:HB3	1:A:152:ASN:HA	0.47	1.85	9	1
1:A:72:SER:HB2	1:A:94:ASN:OD1	0.47	2.08	7	1
1:A:20:LYS:HA	1:A:43:GLU:O	0.47	2.09	4	4
1:A:96:SER:HA	1:A:121:PHE:O	0.47	2.09	10	1
1:A:81:GLU:HB2	1:A:111:LYS:HD2	0.47	1.86	8	1
1:A:82:VAL:O	1:A:86:LYS:HG2	0.47	2.10	2	1
1:A:144:TYR:HA	1:A:149:ASP:HA	0.47	1.87	9	1
1:A:45:GLU:HB3	1:A:67:LYS:CD	0.47	2.34	8	1
1:A:3:MET:HG3	1:A:24:LEU:HD13	0.46	1.87	3	2
1:A:62:LYS:HA	1:A:86:LYS:HB2	0.46	1.86	4	2
1:A:60:LEU:CB	1:A:86:LYS:HD2	0.46	2.40	3	1
1:A:113:GLU:HA	1:A:141:GLN:HG2	0.46	1.88	4	1
1:A:5:LYS:O	1:A:9:LEU:HG	0.46	2.11	1	1
1:A:102:ASP:HA	1:A:128:LEU:HD11	0.46	1.86	4	2
1:A:37:LEU:CD2	1:A:47:LEU:HD11	0.46	2.40	10	1
1:A:15:THR:O	1:A:19:VAL:HG23	0.45	2.11	2	2
1:A:143:MET:O	1:A:149:ASP:HA	0.45	2.12	10	1
1:A:7:ILE:O	1:A:11:LEU:HG	0.45	2.12	2	3
1:A:84:ALA:CB	1:A:112:LEU:HG	0.45	2.41	8	1
1:A:132:ARG:NH2	1:A:146:ASP:HB3	0.45	2.26	8	1
1:A:107:GLU:HB3	1:A:108:PRO:HD3	0.45	1.88	2	4
1:A:52:VAL:CG2	1:A:54:LEU:HG	0.45	2.41	8	3
1:A:37:LEU:HB3	1:A:61:PRO:HG3	0.45	1.88	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:63:LEU:O	1:A:66:LEU:HB2	0.45	2.12	3	1
1:A:86:LYS:HB3	1:A:86:LYS:NZ	0.45	2.26	8	1
1:A:22:LEU:O	1:A:47:LEU:HG	0.45	2.12	2	1
1:A:64:ASN:HA	1:A:89:ASN:ND2	0.45	2.27	1	1
1:A:30:ILE:HD12	1:A:30:ILE:N	0.45	2.26	7	2
1:A:123:CYS:SG	1:A:126:THR:HG23	0.45	2.52	6	1
1:A:68:LYS:HA	1:A:92:HIS:O	0.44	2.11	10	1
1:A:100:ILE:HB	1:A:123:CYS:SG	0.44	2.52	4	1
1:A:87:CYS:HB3	1:A:90:LEU:HB2	0.44	1.89	2	1
1:A:95:LEU:HD23	1:A:95:LEU:H	0.44	1.72	7	1
1:A:84:ALA:HB1	1:A:111:LYS:HB2	0.44	1.89	5	1
1:A:44:LEU:HD11	1:A:47:LEU:HB2	0.44	1.90	9	3
1:A:30:ILE:HD13	1:A:35:GLU:HG3	0.44	1.89	4	1
1:A:99:LYS:HA	1:A:124:GLU:HG2	0.43	1.88	6	1
1:A:37:LEU:HD21	1:A:47:LEU:CD1	0.43	2.44	6	1
1:A:128:LEU:HB2	1:A:131:TYR:HB3	0.43	1.89	10	2
1:A:69:LEU:HB2	1:A:90:LEU:HD11	0.42	1.91	5	1
1:A:82:VAL:HG22	1:A:86:LYS:HE3	0.42	1.91	7	1
1:A:52:VAL:CG2	1:A:54:LEU:HD23	0.42	2.39	3	1
1:A:38:THR:O	1:A:41:PHE:HD1	0.42	1.98	5	1
1:A:80:LEU:HD12	1:A:106:ILE:HA	0.42	1.90	3	1
1:A:5:LYS:HA	1:A:8:TYR:HB3	0.42	1.90	1	1
1:A:84:ALA:HA	1:A:112:LEU:CD2	0.42	2.45	3	1
1:A:57:ILE:O	1:A:60:LEU:HB3	0.42	2.14	5	1
1:A:95:LEU:HB3	1:A:100:ILE:HG13	0.42	1.91	4	1
1:A:58:SER:HA	1:A:82:VAL:HG11	0.42	1.91	7	1
1:A:70:GLU:HA	1:A:94:ASN:HB3	0.42	1.91	7	1
1:A:67:LYS:HD2	1:A:68:LYS:HG3	0.42	1.92	2	1
1:A:30:ILE:N	1:A:30:ILE:HD12	0.42	2.30	9	1
1:A:145:LEU:HD23	1:A:146:ASP:HB2	0.41	1.91	3	1
1:A:33:LYS:HG2	1:A:59:ASN:ND2	0.41	2.30	5	1
1:A:100:ILE:HG21	1:A:106:ILE:HG23	0.41	1.91	9	1
1:A:57:ILE:HG23	1:A:76:ILE:HD12	0.41	1.90	1	1
1:A:37:LEU:HD11	1:A:47:LEU:HD11	0.41	1.93	1	1
1:A:37:LEU:O	1:A:61:PRO:HG3	0.41	2.15	9	1
1:A:47:LEU:CD2	1:A:66:LEU:HD21	0.41	2.46	8	1
1:A:44:LEU:HD12	1:A:66:LEU:HG	0.41	1.92	7	1
1:A:91:LYS:HB3	1:A:116:LYS:HG3	0.41	1.91	9	1
1:A:63:LEU:HB2	1:A:66:LEU:HD12	0.41	1.92	3	1
1:A:54:LEU:O	1:A:74:ASN:HB3	0.41	2.16	1	1
1:A:80:LEU:HD12	1:A:105:THR:O	0.41	2.16	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:30:ILE:HB	1:A:35:GLU:OE2	0.41	2.15	7	1
1:A:44:LEU:HD12	1:A:63:LEU:HD13	0.41	1.91	3	1
1:A:45:GLU:HA	1:A:66:LEU:HA	0.41	1.92	3	1
1:A:7:ILE:HG13	1:A:24:LEU:HD11	0.41	1.93	5	1
1:A:135:VAL:HG11	1:A:145:LEU:HD21	0.41	1.93	10	1
1:A:136:PHE:CE1	1:A:150:ARG:HG2	0.41	2.50	6	1
1:A:31:GLU:HB2	1:A:33:LYS:HG2	0.40	1.92	3	1
1:A:92:HIS:HA	1:A:117:SER:O	0.40	2.15	8	1
1:A:62:LYS:HA	1:A:86:LYS:CB	0.40	2.47	4	1
1:A:113:GLU:HA	1:A:141:GLN:CD	0.40	2.37	10	1
1:A:3:MET:HA	1:A:27:CYS:SG	0.40	2.56	10	1
1:A:19:VAL:CG1	1:A:22:LEU:HG	0.40	2.46	8	1
1:A:10:GLU:HG3	1:A:22:LEU:HD13	0.40	1.91	9	1
1:A:37:LEU:HD23	1:A:63:LEU:HD11	0.40	1.93	6	1
1:A:2:GLU:HB3	1:A:28:LYS:O	0.40	2.16	7	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	154/169 (91%)	138±2 (89±1%)	16±2 (10±1%)	1±0 (0±0%)	42	80
All	All	1540/1690 (91%)	1376 (89%)	158 (10%)	6 (0%)	42	80

All 4 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	31	GLU	2
1	A	130	ALA	2
1	A	30	ILE	1
1	A	115	LEU	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	145/157 (92%)	139±2 (96±1%)	7±2 (4±1%)	36	81
All	All	1450/1570 (92%)	1385 (96%)	65 (4%)	36	81

All 31 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	66	LEU	7
1	A	21	GLU	5
1	A	57	ILE	5
1	A	141	GLN	5
1	A	14	ARG	3
1	A	69	LEU	3
1	A	9	LEU	3
1	A	79	ASP	2
1	A	149	ASP	2
1	A	15	THR	2
1	A	91	LYS	2
1	A	96	SER	2
1	A	86	LYS	2
1	A	113	GLU	2
1	A	37	LEU	2
1	A	58	SER	2
1	A	116	LYS	2
1	A	154	GLU	1
1	A	48	SER	1
1	A	152	ASN	1
1	A	54	LEU	1
1	A	64	ASN	1
1	A	44	LEU	1
1	A	70	GLU	1
1	A	145	LEU	1
1	A	68	LYS	1
1	A	33	LYS	1
1	A	4	ASP	1
1	A	95	LEU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	16	PRO	1
1	A	39	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 carbohydrates in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided