



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 11:30 PM UTC

PDB ID : 2LNH / pdb_00002lnh
BMRB ID : 18165
Title : Enterohaemorrhagic E. coli (EHEC) exploits a tryptophan switch to hijack host F-actin assembly
Authors : Aitio, O.; Hellman, M.; Skehan, B.; Kesti, T.; Leong, J.M.; Saksela, K.; Permi, P.
Deposited on : 2011-12-28

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

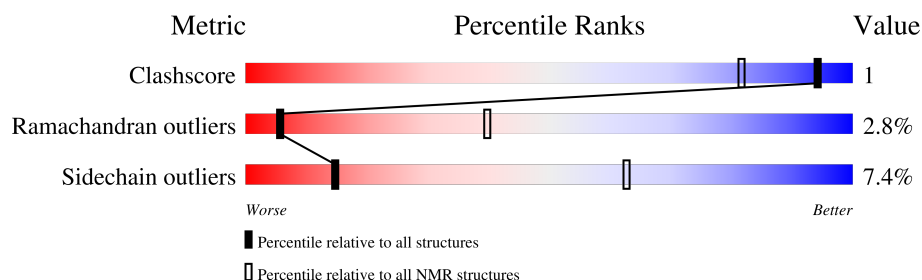
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 85%.

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	65	69% 11% 20%
2	B	67	69% 6% 25%
3	C	48	60% 8% 29% .

2 Ensemble composition and analysis

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:12-A:63, C:133-C:153 (73)	0.21	4
2	B:73-B:80, B:86-B:127, C:159-C:170 (62)	0.17	2

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, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
2	8, 20

3 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2782 atoms, of which 1371 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Neural Wiskott-Aldrich syndrome protein.

Mol	Chain	Residues	Atoms						Trace
1	A	65	Total	C	H	N	O	S	0
			993	320	483	86	102	2	

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP O00401

- Molecule 2 is a protein called Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1.

Mol	Chain	Residues	Atoms						Trace
2	B	67	Total	C	H	N	O	S	0
			1065	344	532	89	99	1	

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	66	GLY	-	expression tag	UNP Q9UHR4
B	67	SER	-	expression tag	UNP Q9UHR4
B	68	HIS	-	expression tag	UNP Q9UHR4

- Molecule 3 is a protein called Secreted effector protein EspF(U).

Mol	Chain	Residues	Atoms						Trace
3	C	47	Total	C	H	N	O	S	0
			724	230	356	71	65	2	

There is a discrepancy between the modelled and reference sequences:

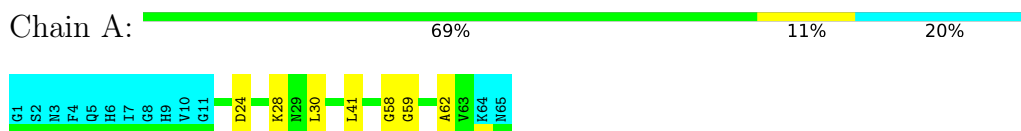
Chain	Residue	Modelled	Actual	Comment	Reference
C	132	GLY	-	expression tag	UNP P0DJ89

4 Residue-property plots

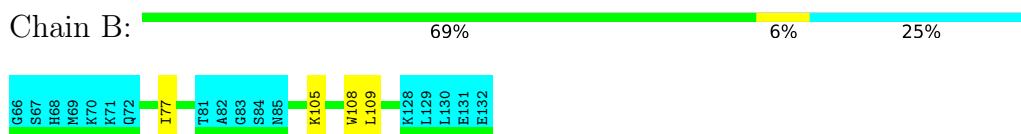
4.1 Average score per residue in the NMR ensemble

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.

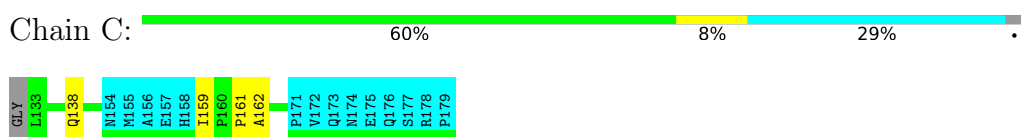
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1



- Molecule 3: Secreted effector protein EspF(U)

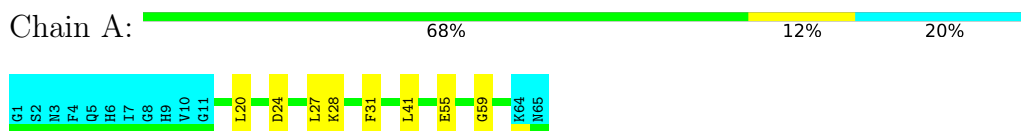


4.2 Scores per residue for each member of the ensemble

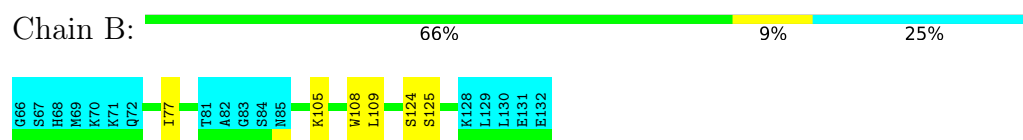
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

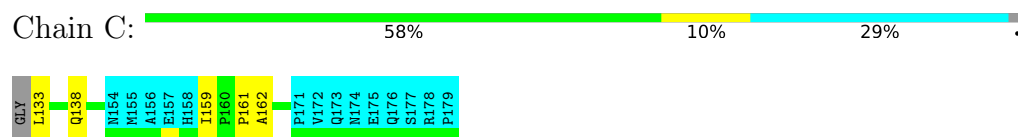
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

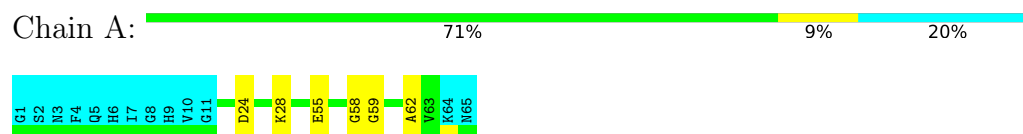


- Molecule 3: Secreted effector protein EspF(U)

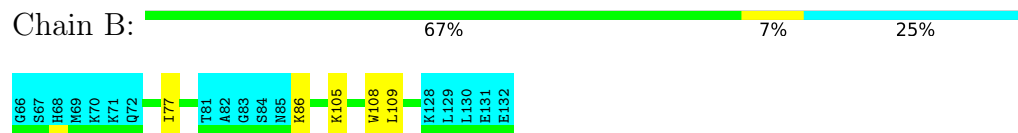


4.2.2 Score per residue for model 2

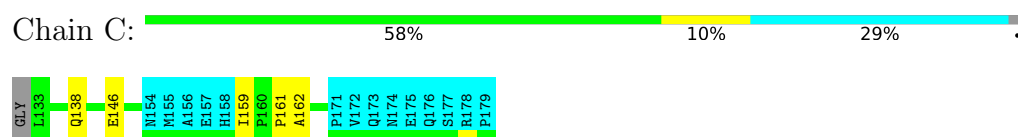
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

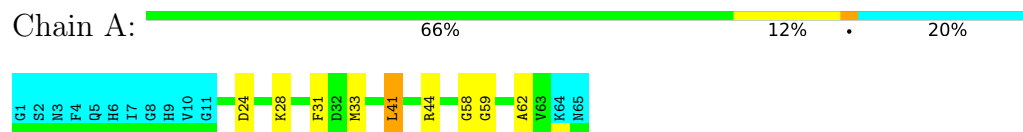


- Molecule 3: Secreted effector protein EspF(U)

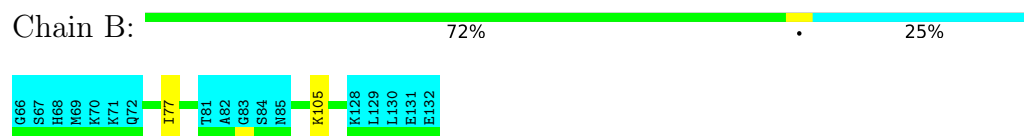


4.2.3 Score per residue for model 3

- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

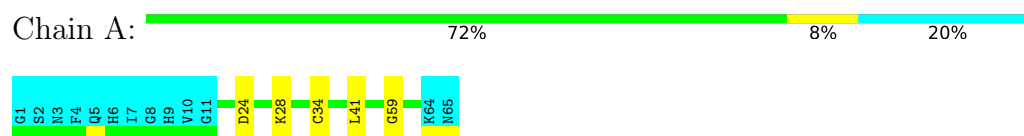


- Molecule 3: Secreted effector protein EspF(U)

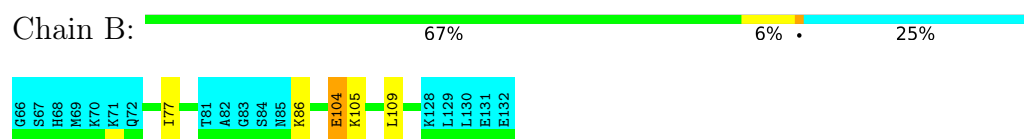


4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

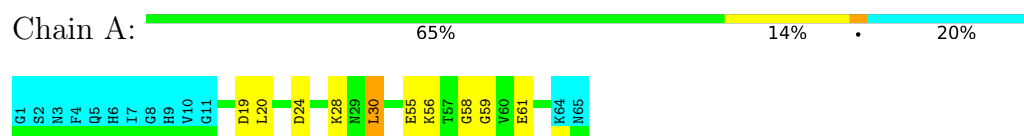


- Molecule 3: Secreted effector protein EspF(U)



4.2.5 Score per residue for model 5

- Molecule 1: Neural Wiskott-Aldrich syndrome protein



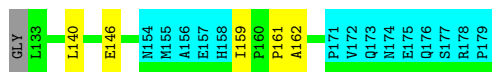
- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1





- Molecule 3: Secreted effector protein EspF(U)

Chain C: 58% 10% 29%



4.2.6 Score per residue for model 6

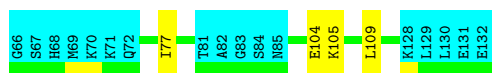
- Molecule 1: Neural Wiskott-Aldrich syndrome protein

Chain A: 69% 9% 20%



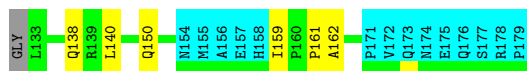
- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

Chain B: 69% 6% 25%



- Molecule 3: Secreted effector protein EspF(U)

Chain C: 56% 12% 29%



4.2.7 Score per residue for model 7

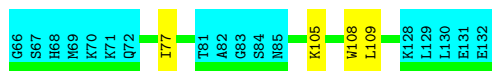
- Molecule 1: Neural Wiskott-Aldrich syndrome protein

Chain A: 71% 9% 20%

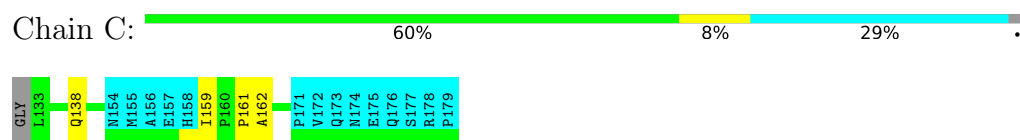


- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

Chain B: 69% 6% 25%

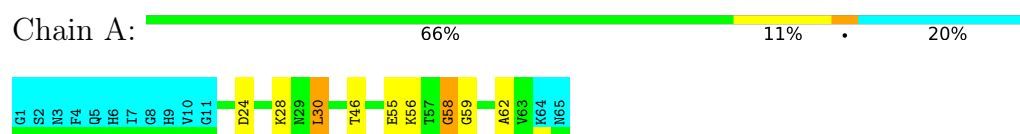


- Molecule 3: Secreted effector protein EspF(U)

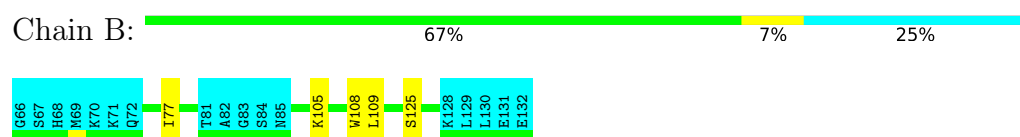


4.2.8 Score per residue for model 8

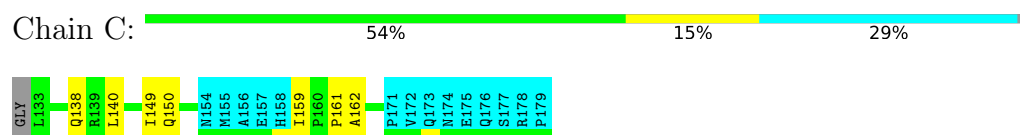
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

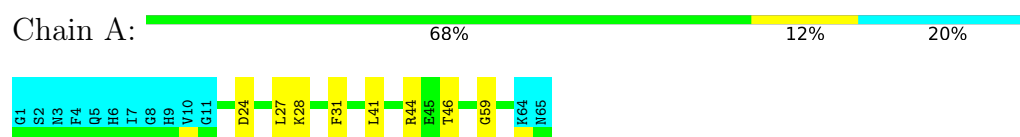


- Molecule 3: Secreted effector protein EspF(U)

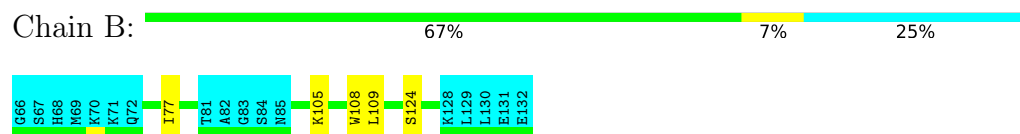


4.2.9 Score per residue for model 9

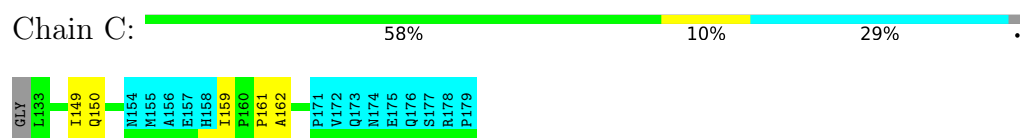
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

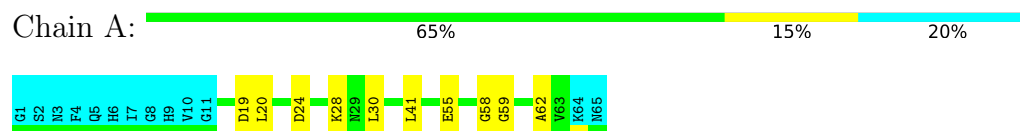


- Molecule 3: Secreted effector protein EspF(U)

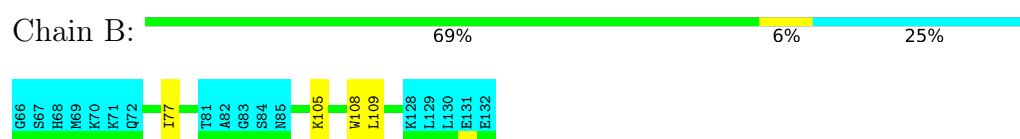


4.2.10 Score per residue for model 10

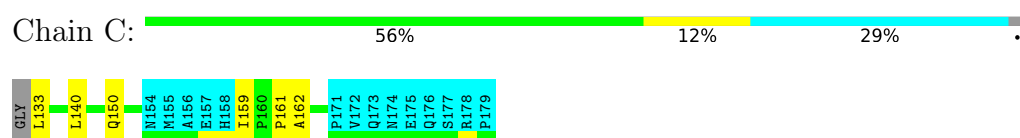
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

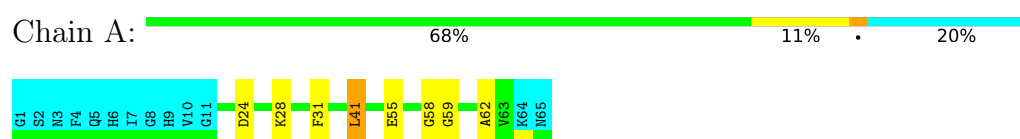


- Molecule 3: Secreted effector protein EspF(U)

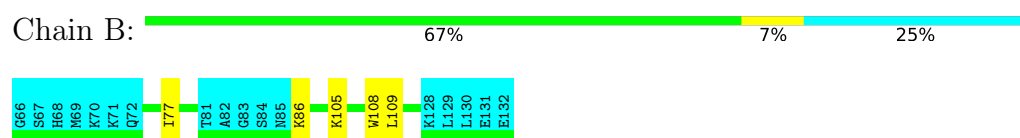


4.2.11 Score per residue for model 11

- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1



- Molecule 3: Secreted effector protein EspF(U)



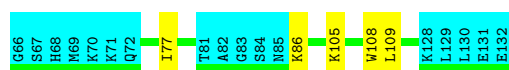


4.2.12 Score per residue for model 12

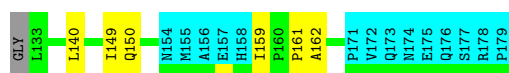
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

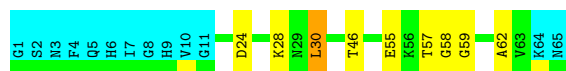


- Molecule 3: Secreted effector protein EspF(U)

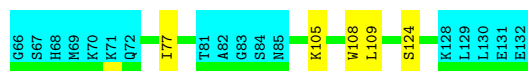


4.2.13 Score per residue for model 13

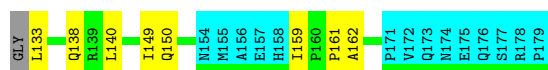
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

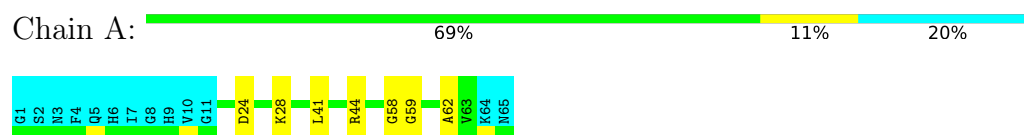


- Molecule 3: Secreted effector protein EspF(U)

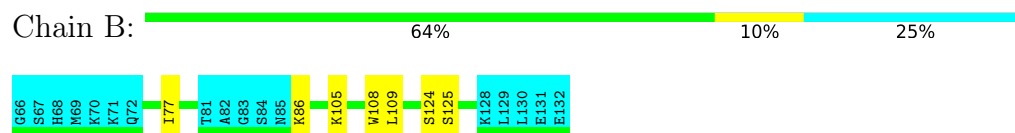


4.2.14 Score per residue for model 14

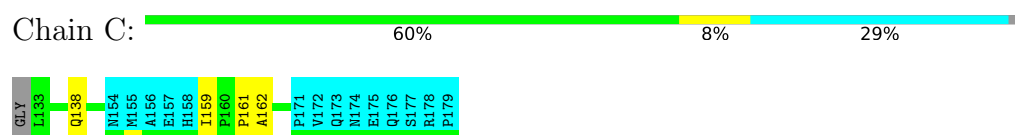
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

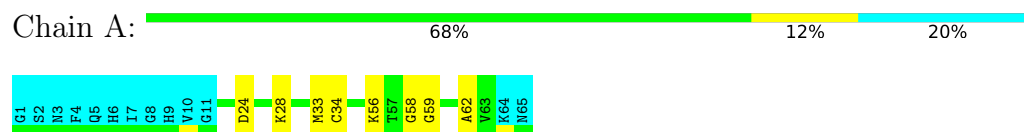


- Molecule 3: Secreted effector protein EspF(U)

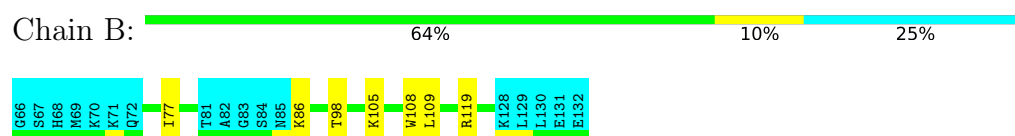


4.2.15 Score per residue for model 15

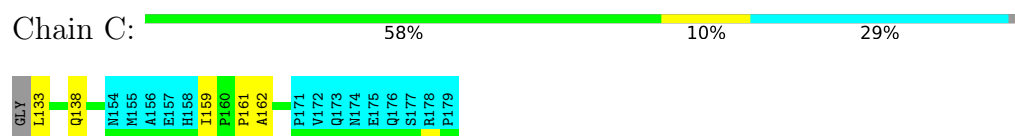
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

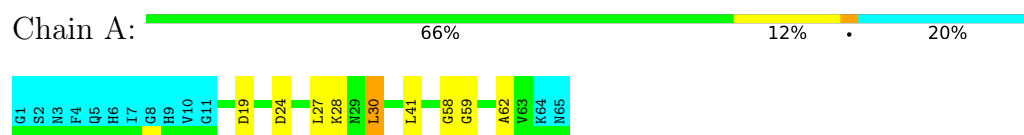


- Molecule 3: Secreted effector protein EspF(U)

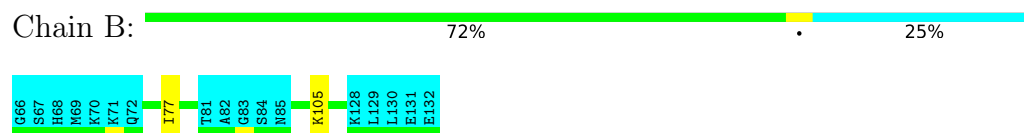


4.2.16 Score per residue for model 16

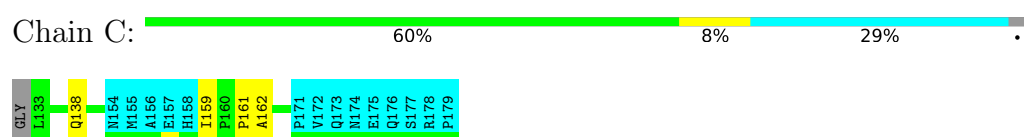
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

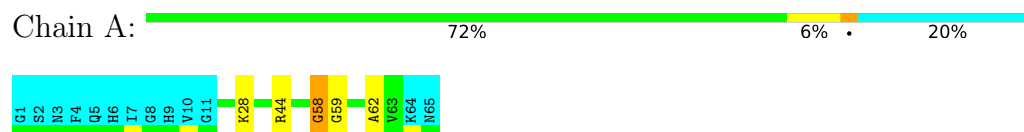


- Molecule 3: Secreted effector protein EspF(U)

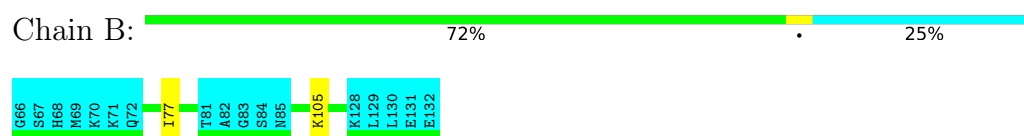


4.2.17 Score per residue for model 17

- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

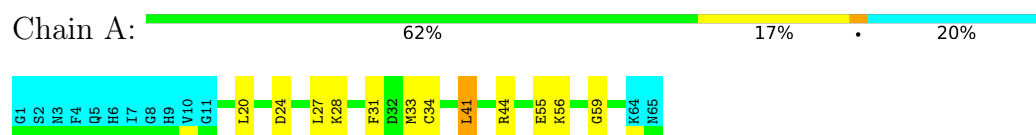


- Molecule 3: Secreted effector protein EspF(U)

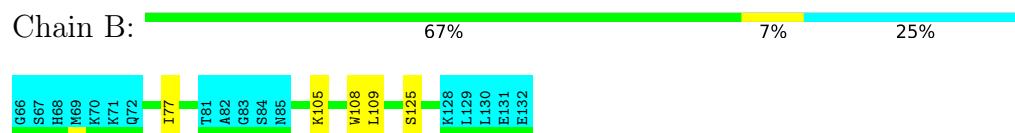


4.2.18 Score per residue for model 18

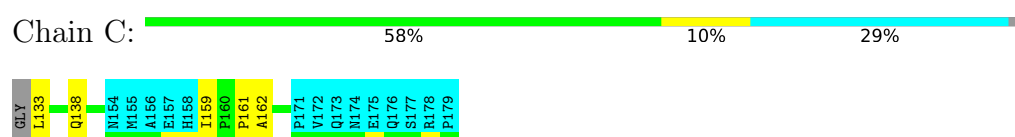
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

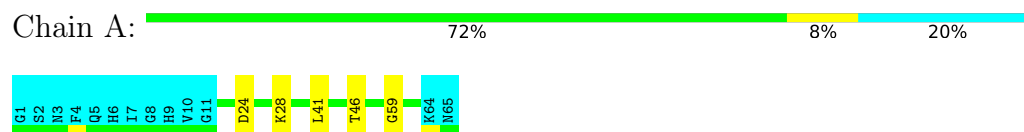


- Molecule 3: Secreted effector protein EspF(U)

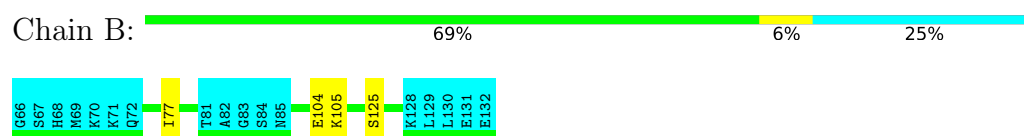


4.2.19 Score per residue for model 19

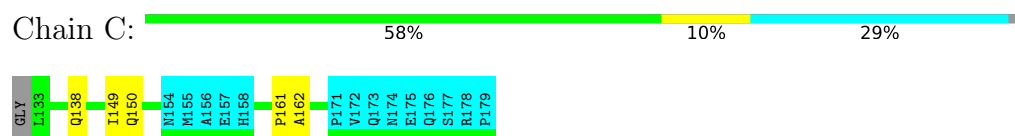
- Molecule 1: Neural Wiskott-Aldrich syndrome protein



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1



- Molecule 3: Secreted effector protein EspF(U)



4.2.20 Score per residue for model 20

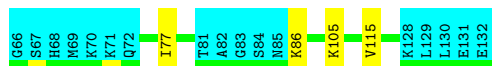
- Molecule 1: Neural Wiskott-Aldrich syndrome protein

Chain A:  69% 9% 20%



- Molecule 2: Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1

Chain B:  69% 6% 25%



- Molecule 3: Secreted effector protein EspF(U)

Chain C:  58% 10% 29%



5 Refinement protocol and experimental data overview

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

Of the 200 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	2.1
Amber	refinement	8.0
CYANA	refinement	2.1

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1921
Number of shifts mapped to atoms	1921
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	85%

6 Model quality

6.1 Standard geometry

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	0.77±0.01	0±0/420 (0.0± 0.0%)	1.34±0.02	0±1/569 (0.1± 0.1%)
2	B	0.88±0.01	0±0/419 (0.0± 0.0%)	1.29±0.01	0±0/570 (0.0± 0.0%)
3	C	1.01±0.02	0±0/267 (0.0± 0.0%)	1.54±0.02	1±1/373 (0.3± 0.3%)
All	All	0.88	0/22120 (0.0%)	1.38	34/30240 (0.1%)

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
2	B	0.0±0.0	0.1±0.2
All	All	0	1

There are no bond-length outliers.

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	19	ASP	CA-CB-CG	6.24	118.84	112.60	5	2
3	C	159	ILE	CA-C-N	5.55	126.09	120.38	1	13
3	C	159	ILE	C-N-CA	5.55	126.09	120.38	1	13
1	A	19	ASP	CA-C-N	5.44	127.84	120.38	16	3
1	A	19	ASP	C-N-CA	5.44	127.84	120.38	16	3

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
2	B	119	ARG	Sidechain	1

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	412	393	393	2±1
2	B	405	401	401	1±0
3	C	255	254	253	1±1
All	All	21440	20960	20940	52

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 1.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:30:LEU:HD11	3:C:140:LEU:HD22	0.57	1.77	12	6
1:A:46:THR:HG23	3:C:149:ILE:HG23	0.50	1.84	8	5
1:A:58:GLY:O	1:A:62:ALA:HB3	0.49	2.07	3	12
1:A:33:MET:HE2	3:C:133:LEU:HD22	0.49	1.83	18	2
1:A:30:LEU:HD21	3:C:140:LEU:HD22	0.48	1.84	10	1
1:A:30:LEU:HD13	1:A:30:LEU:C	0.47	2.35	12	7
2:B:108:TRP:C	2:B:109:LEU:HD22	0.44	2.38	2	12
1:A:31:PHE:CD2	1:A:41:LEU:HD21	0.44	2.47	9	5
2:B:104:GLU:HB3	2:B:109:LEU:HD21	0.43	1.90	4	2

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	52/65 (80%)	47±1 (90±1%)	4±1 (7±2%)	1±0 (2±1%)	7	45
2	B	50/67 (75%)	49±1 (97±2%)	1±1 (3±2%)	0±0 (0±0%)	100	100
3	C	32/48 (67%)	29±1 (91±3%)	0±1 (1±2%)	2±0 (8±2%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	2680/3600 (74%)	2494 (93%)	112 (4%)	74 (3%)	6	40

All 6 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	59	GLY	20
3	C	161	PRO	20
3	C	162	ALA	20
3	C	159	ILE	5
3	C	150	GLN	5
1	A	58	GLY	4

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	46/56 (82%)	41±2 (90±3%)	5±2 (10±3%)	10	54
2	B	44/58 (76%)	41±1 (93±2%)	3±1 (7±2%)	16	65
3	C	27/40 (68%)	26±1 (96±3%)	1±1 (4±3%)	28	79
All	All	2340/3080 (76%)	2167 (93%)	173 (7%)	15	63

All 26 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	28	LYS	20
2	B	77	ILE	20
2	B	105	LYS	20
1	A	24	ASP	19
3	C	138	GLN	13
1	A	55	GLU	10
1	A	41	LEU	8
2	B	86	LYS	7
1	A	30	LEU	7
1	A	56	LYS	7

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Mol	Chain	Res	Type	Models (Total)
2	B	125	SER	5
1	A	44	ARG	5
1	A	20	LEU	4
1	A	27	LEU	4
2	B	124	SER	4
1	A	34	CYS	4
3	C	133	LEU	3
3	C	146	GLU	3
2	B	104	GLU	2
3	C	150	GLN	2
1	A	33	MET	1
1	A	61	GLU	1
1	A	57	THR	1
2	B	98	THR	1
3	C	153	ARG	1
2	B	115	VAL	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 ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 85% for the well-defined parts and 80% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1921
Number of shifts mapped to atoms	1921
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	17

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	171	-1.02 ± 0.11	Should be checked
$^{13}\text{C}_\beta$	160	-0.58 ± 0.14	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	148	0.49 ± 0.34	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 85%, i.e. 1557 atoms were assigned a chemical shift out of a possible 1834. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	516/658 (78%)	263/266 (99%)	134/270 (50%)	119/122 (98%)
Sidechain	916/1013 (90%)	625/659 (95%)	286/323 (89%)	5/31 (16%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	125/163 (77%)	71/82 (87%)	50/73 (68%)	4/8 (50%)
Overall	1557/1834 (85%)	959/1007 (95%)	470/666 (71%)	128/161 (80%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 80%, i.e. 1921 atoms were assigned a chemical shift out of a possible 2404. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	651/879 (74%)	332/357 (93%)	171/358 (48%)	148/164 (90%)
Sidechain	1121/1324 (85%)	763/857 (89%)	352/420 (84%)	6/47 (13%)
Aromatic	149/201 (74%)	84/103 (82%)	61/86 (71%)	4/12 (33%)
Overall	1921/2404 (80%)	1179/1317 (90%)	584/864 (68%)	158/223 (71%)

7.1.4 Statistically unusual chemical shifts ⓘ

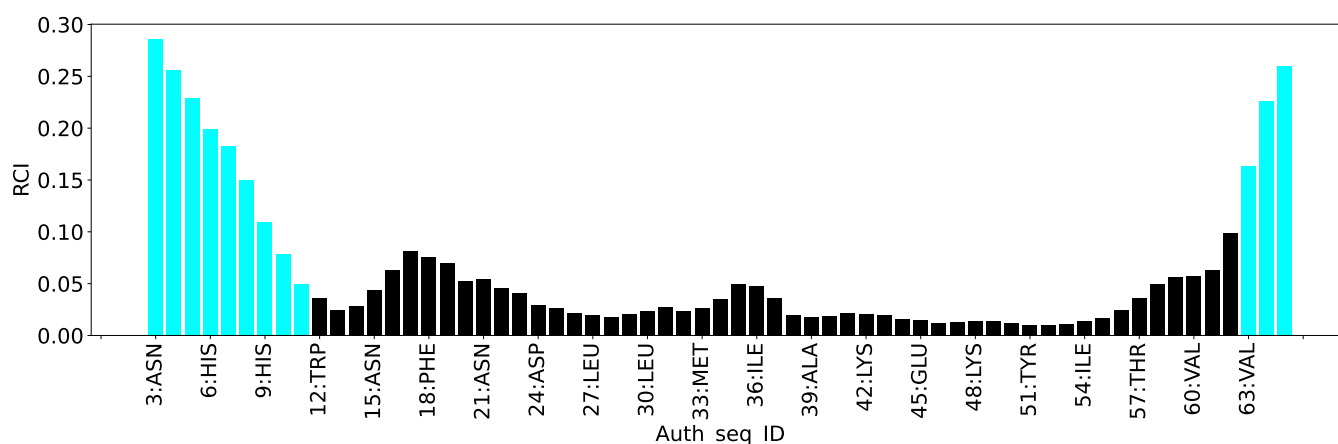
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	C	163	PRO	HG3	-1.15	0.33 – 3.48	-9.7
1	C	163	PRO	HB2	-0.62	0.37 – 3.78	-7.9
1	C	163	PRO	HB3	-0.71	0.25 – 3.76	-7.7
1	C	163	PRO	HD3	0.94	1.76 – 5.48	-7.2
1	B	110	TYR	HB3	0.20	0.93 – 4.76	-6.9
1	C	162	ALA	HB1	-0.22	0.14 – 2.58	-6.5
1	C	162	ALA	HB2	-0.22	0.14 – 2.58	-6.5
1	C	162	ALA	HB3	-0.22	0.14 – 2.58	-6.5
1	C	162	ALA	HA	1.64	2.13 – 6.34	-6.2
1	B	76	THR	HG21	-0.13	0.08 – 2.19	-6.0
1	B	76	THR	HG22	-0.13	0.08 – 2.19	-6.0
1	B	76	THR	HG23	-0.13	0.08 – 2.19	-6.0
1	C	167	ALA	HB1	-0.03	0.14 – 2.58	-5.7
1	C	167	ALA	HB2	-0.03	0.14 – 2.58	-5.7
1	C	167	ALA	HB3	-0.03	0.14 – 2.58	-5.7
1	C	163	PRO	HG2	0.28	0.41 – 3.45	-5.4
1	A	12	TRP	HD1	5.36	5.46 – 8.81	-5.3

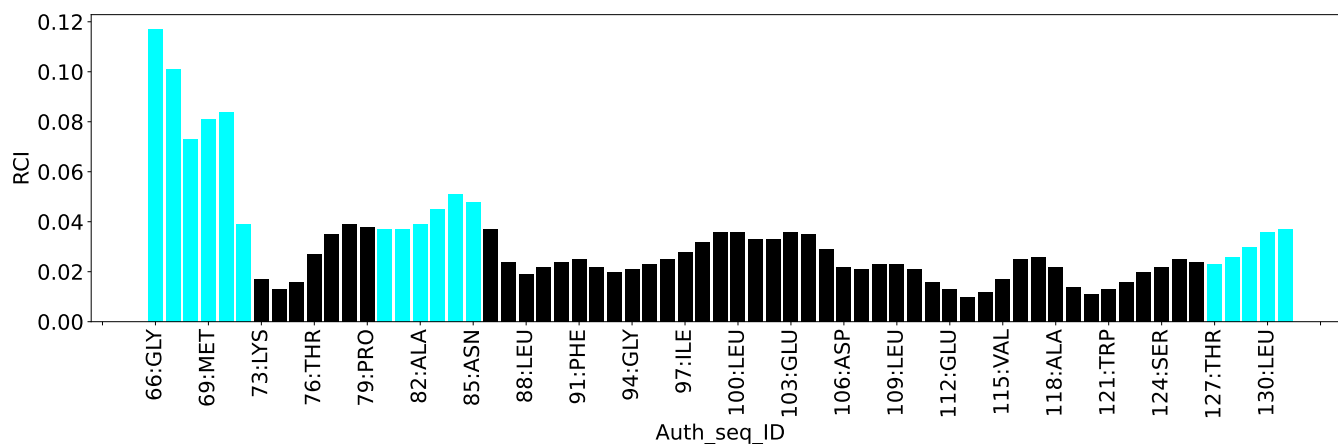
7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



Random coil index (RCI) for chain C:

