



Full wwPDB NMR Structure Validation Report ⓘ

Jun 7, 2020 – 03:55 am BST

PDB ID : 6NBN
Title : Structure of Aedes aegypti OBP22 in the complex with arachidonic acid
Authors : Jones, D.N.; Wang, J.
Deposited on : 2018-12-07

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

Cyrange	:	Kirchner and Güntert (2011)
NmrClust	:	Kelley et al. (1996)
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
ShiftChecker	:	2.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

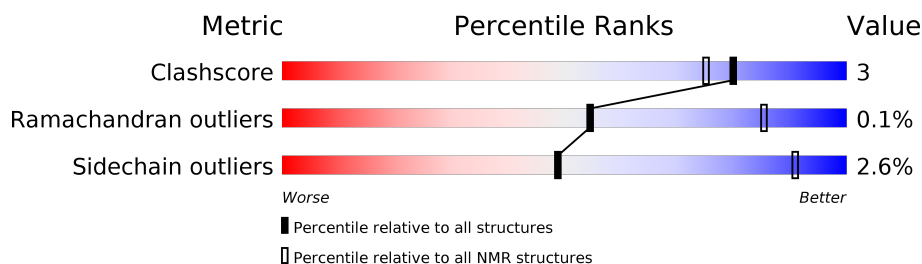
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 90%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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	123	 90% • 6%

2 Ensemble composition and analysis

This entry contains 30 models. Model 1 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:6-A:121 (116)	0.23	1

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 4 clusters and 6 single-model clusters were found.

Cluster number	Models
1	1, 7, 9, 12, 13, 18, 19, 21, 24, 25, 29
2	4, 5, 11, 14, 15, 30
3	3, 8, 16, 17, 22
4	6, 26
Single-model clusters	2; 10; 20; 23; 27; 28

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 2033 atoms, of which 1004 are hydrogens and 0 are deuteriums.

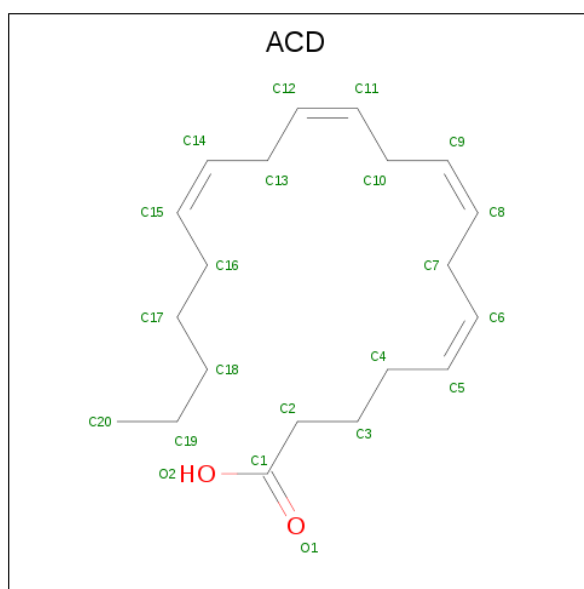
- Molecule 1 is a protein called AAEL005772-PA.

Mol	Chain	Residues	Atoms						Trace
1	A	123	Total	C	H	N	O	S	0
			1980	633	973	170	195	9	

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q1HRL7

- Molecule 2 is ARACHIDONIC ACID (three-letter code: ACD) (formula: $C_{20}H_{32}O_2$).



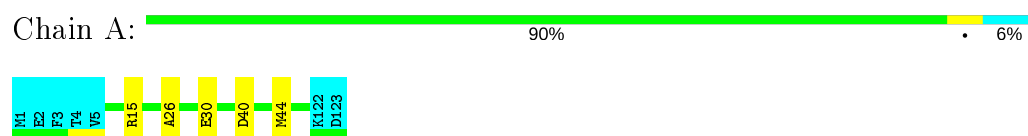
Mol	Chain	Residues	Atoms			
2	A	1	Total	C	H	O
			53	20	31	2

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: AAEL005772-PA

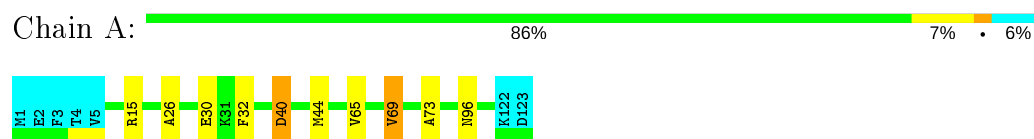


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

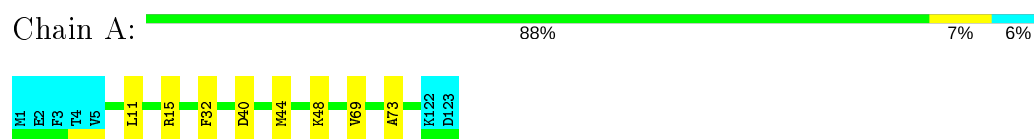
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: AAEL005772-PA




4.2.2 Score per residue for model 2

- Molecule 1: AAEL005772-PA



4.2.3 Score per residue for model 3


- Molecule 1: AAEL005772-PA

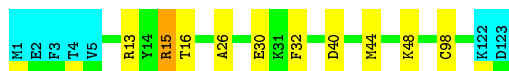
Chain A:  87% 7% 6%



4.2.4 Score per residue for model 4


- Molecule 1: AAEL005772-PA

Chain A:  86% 7% 6%



4.2.5 Score per residue for model 5


- Molecule 1: AAEL005772-PA

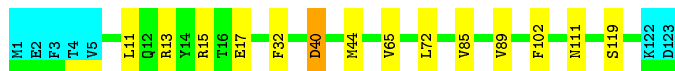
Chain A:  89% 5% 6%



4.2.6 Score per residue for model 6


- Molecule 1: AAEL005772-PA

Chain A:  83% 11% 6%



4.2.7 Score per residue for model 7


- Molecule 1: AAEL005772-PA

Chain A:  88% 7% 6%



4.2.8 Score per residue for model 8


- Molecule 1: AAEL005772-PA

Chain A:  90% • 6%



4.2.9 Score per residue for model 9


- Molecule 1: AAEL005772-PA

Chain A:  85% 10% 6%



4.2.10 Score per residue for model 10


- Molecule 1: AAEL005772-PA

Chain A:  79% 14% • 6%



4.2.11 Score per residue for model 11


- Molecule 1: AAEL005772-PA

Chain A:  86% 7% • 6%



4.2.12 Score per residue for model 12


- Molecule 1: AAEL005772-PA

Chain A:  86% 8% 6%



4.2.13 Score per residue for model 13


- Molecule 1: AAEL005772-PA

Chain A:  89% • • 6%



4.2.14 Score per residue for model 14


- Molecule 1: AAEL005772-PA

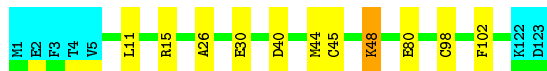
Chain A:  82% 12% 6%



4.2.15 Score per residue for model 15


- Molecule 1: AAEL005772-PA

Chain A:  85% 8% • 6%



4.2.16 Score per residue for model 16


- Molecule 1: AAEL005772-PA

Chain A:  83% 11% 6%



4.2.17 Score per residue for model 17

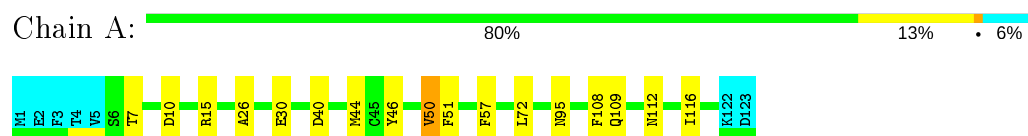
- Molecule 1: AAEL005772-PA

Chain A:  89% • • 6%



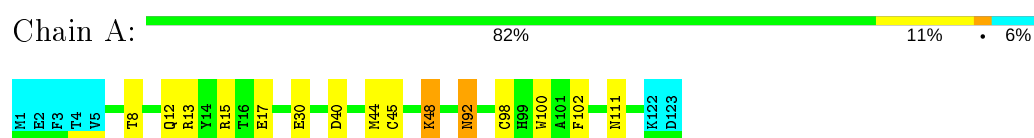
4.2.18 Score per residue for model 18

- Molecule 1: AAEL005772-PA



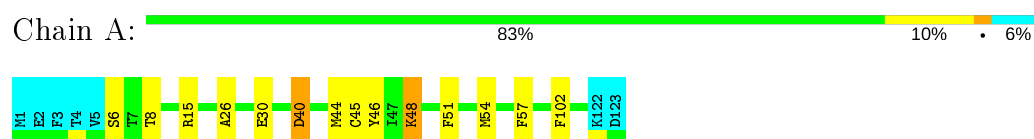
4.2.19 Score per residue for model 19

- Molecule 1: AAEL005772-PA



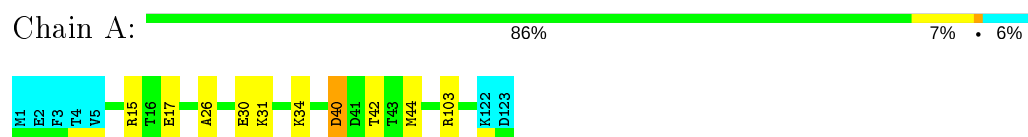
4.2.20 Score per residue for model 20

- Molecule 1: AAEL005772-PA



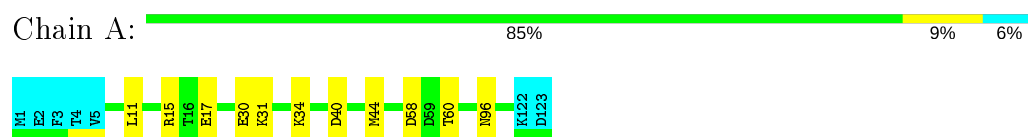
4.2.21 Score per residue for model 21

- Molecule 1: AAEL005772-PA




4.2.22 Score per residue for model 22

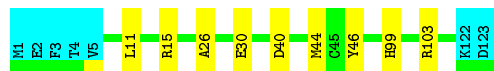
- Molecule 1: AAEL005772-PA



4.2.23 Score per residue for model 23


- Molecule 1: AAEL005772-PA

Chain A:  87% 7% 6%



4.2.24 Score per residue for model 24


- Molecule 1: AAEL005772-PA

Chain A:  86% 7% 6%



4.2.25 Score per residue for model 25


- Molecule 1: AAEL005772-PA

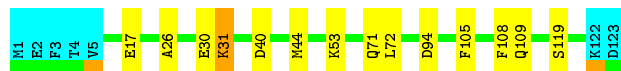
Chain A:  85% 9% 6%



4.2.26 Score per residue for model 26


- Molecule 1: AAEL005772-PA

Chain A:  83% 11% 6%



4.2.27 Score per residue for model 27

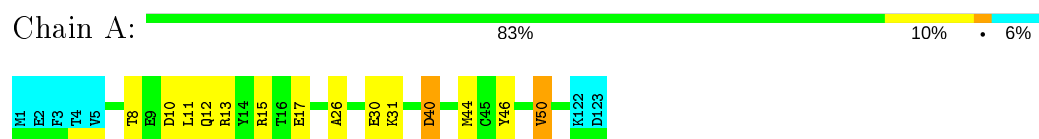
- Molecule 1: AAEL005772-PA

Chain A:  84% 11% 6%



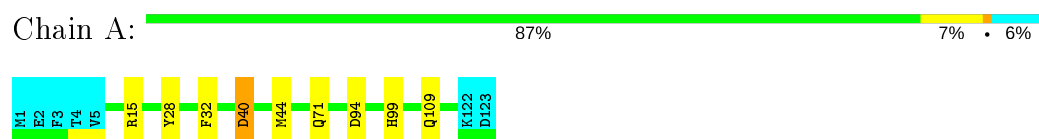
4.2.28 Score per residue for model 28

- Molecule 1: AAEL005772-PA



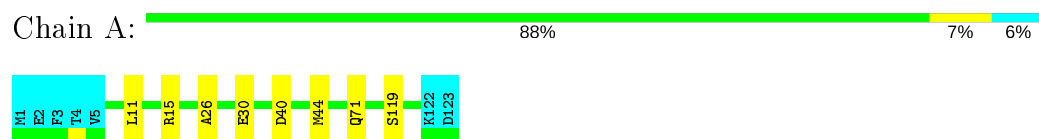
4.2.29 Score per residue for model 29

- Molecule 1: AAEL005772-PA



4.2.30 Score per residue for model 30

- Molecule 1: AAEL005772-PA



5 Refinement protocol and experimental data overview

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

Of the 50 calculated structures, 30 were deposited, based on the following criterion: *NOE violation energy*.

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

Software name	Classification	Version
ARIA	structure calculation	2.3.2
CNS	structure calculation	1.2

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)	input_cs.cif
Number of chemical shift lists	1
Total number of shifts	1559
Number of shifts mapped to atoms	1559
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	90%

No validations of the models with respect to experimental NMR restraints is performed at this time.

6 Model quality ⓘ

6.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section:
ACD

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	947	914	911	5±2
2	A	22	31	31	0±1
All	All	29070	28350	28260	153

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 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:LEU:HA	1:A:119:SER:OG	0.61	1.94	11	5
1:A:40:ASP:O	1:A:44:MET:HG3	0.60	1.96	1	29
1:A:11:LEU:O	1:A:15:ARG:HG3	0.59	1.95	22	11
1:A:15:ARG:HH21	2:A:201:ACD:C1	0.57	2.12	21	3
1:A:13:ARG:O	1:A:17:GLU:HG3	0.57	1.99	10	5
1:A:99:HIS:O	1:A:103:ARG:HG3	0.56	2.00	16	3
1:A:15:ARG:HD2	2:A:201:ACD:O2	0.54	2.02	15	4
1:A:32:PHE:HB3	2:A:201:ACD:O2	0.53	2.04	6	5
1:A:49:CYS:SG	1:A:53:LYS:HE2	0.52	2.44	12	1
1:A:48:LYS:HD3	1:A:98:CYS:SG	0.52	2.45	15	3
1:A:13:ARG:O	1:A:17:GLU:HG2	0.51	2.05	16	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:ASP:OD2	1:A:42:THR:HB	0.51	2.06	21	1
1:A:71:GLN:HG3	1:A:119:SER:OG	0.50	2.06	30	2
1:A:31:LYS:O	1:A:34:LYS:HG2	0.50	2.07	22	2
1:A:26:ALA:O	1:A:30:GLU:HG3	0.49	2.08	25	17
1:A:58:ASP:OD1	1:A:60:THR:HB	0.49	2.07	16	2
1:A:31:LYS:NZ	1:A:31:LYS:HB2	0.49	2.22	26	1
1:A:15:ARG:HH12	2:A:201:ACD:C1	0.48	2.22	4	1
1:A:45:CYS:O	1:A:48:LYS:HG3	0.48	2.08	20	3
1:A:44:MET:HG2	1:A:102:PHE:CG	0.47	2.43	20	3
1:A:71:GLN:OE1	1:A:71:GLN:HA	0.47	2.09	26	2
1:A:26:ALA:O	1:A:30:GLU:HG2	0.47	2.10	1	2
1:A:81:VAL:O	1:A:85:VAL:HG13	0.47	2.10	10	1
1:A:94:ASP:OD1	1:A:99:HIS:HB3	0.47	2.09	29	1
1:A:44:MET:HG2	1:A:102:PHE:CD1	0.46	2.45	6	2
1:A:52:ASN:HA	1:A:57:PHE:O	0.46	2.10	10	1
1:A:46:TYR:O	1:A:50:VAL:HG13	0.46	2.11	18	2
1:A:65:VAL:O	1:A:69:VAL:HG13	0.45	2.11	1	1
1:A:13:ARG:NE	1:A:13:ARG:HA	0.45	2.26	4	1
1:A:15:ARG:HD2	1:A:46:TYR:OH	0.45	2.11	23	1
1:A:6:SER:HB3	1:A:54:MET:SD	0.44	2.52	20	1
1:A:85:VAL:O	1:A:89:VAL:HG23	0.44	2.12	10	2
1:A:105:PHE:O	1:A:109:GLN:HG2	0.44	2.12	26	1
1:A:72:LEU:HD13	1:A:108:PHE:CZ	0.43	2.48	26	3
1:A:8:THR:O	1:A:12:GLN:HG3	0.43	2.13	19	1
1:A:92:ASN:HB2	1:A:100:TRP:CD2	0.43	2.49	14	1
1:A:8:THR:O	1:A:12:GLN:HG2	0.43	2.14	28	1
1:A:18:CYS:SG	1:A:53:LYS:HD3	0.42	2.53	10	1
1:A:92:ASN:HB2	1:A:100:TRP:CE3	0.42	2.49	14	1
1:A:15:ARG:HH11	2:A:201:ACD:C1	0.42	2.28	15	1
1:A:48:LYS:C	1:A:48:LYS:HD3	0.42	2.35	24	1
1:A:55:GLN:HA	1:A:55:GLN:HE21	0.42	1.75	5	1
1:A:15:ARG:HG2	1:A:46:TYR:OH	0.42	2.15	25	2
1:A:112:ASN:O	1:A:116:ILE:HG13	0.41	2.15	18	1
1:A:58:ASP:OD2	1:A:60:THR:HB	0.41	2.14	8	1
1:A:51:PHE:HB3	1:A:57:PHE:HB3	0.41	1.92	20	2
1:A:45:CYS:HA	1:A:48:LYS:CG	0.41	2.46	20	1
1:A:99:HIS:O	1:A:103:ARG:HB2	0.41	2.14	23	1
1:A:28:TYR:HB3	1:A:32:PHE:CZ	0.41	2.50	3	4
1:A:92:ASN:HB3	1:A:100:TRP:CD2	0.41	2.50	19	1
1:A:84:GLU:O	1:A:87:LYS:HG2	0.41	2.15	10	1
1:A:77:ASP:O	1:A:81:VAL:HG23	0.41	2.16	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:VAL:O	1:A:73:ALA:HB3	0.41	2.15	2	1
1:A:7:THR:HG22	1:A:10:ASP:OD2	0.40	2.16	18	1
1:A:80:GLU:O	1:A:84:GLU:HG3	0.40	2.17	16	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	116/123 (94%)	110±1 (95±1%)	5±1 (5±1%)	0±0 (0±0%)	54	85
All	All	3480/3690 (94%)	3314 (95%)	161 (5%)	5 (0%)	54	85

All 2 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	74	HIS	3
1	A	73	ALA	2

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	107/114 (94%)	104±1 (97±1%)	3±1 (3±1%)	49	91
All	All	3210/3420 (94%)	3128 (97%)	82 (3%)	49	91

All 28 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	15	ARG	13
1	A	40	ASP	9
1	A	109	GLN	6
1	A	96	ASN	6
1	A	48	LYS	6
1	A	17	GLU	5
1	A	111	ASN	5
1	A	31	LYS	4
1	A	30	GLU	3
1	A	95	ASN	2
1	A	45	CYS	2
1	A	65	VAL	2
1	A	10	ASP	2
1	A	50	VAL	2
1	A	92	ASN	2
1	A	42	THR	1
1	A	80	GLU	1
1	A	103	ARG	1
1	A	69	VAL	1
1	A	94	ASP	1
1	A	8	THR	1
1	A	44	MET	1
1	A	16	THR	1
1	A	71	GLN	1
1	A	36	GLU	1
1	A	55	GLN	1
1	A	53	LYS	1
1	A	85	VAL	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.6 Ligand geometry

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	ACD	A	201	-	18,21,21	0.16±0.01	0±0 (0±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	ACD	A	201	-	17,21,21	0.53±0.02	0±0 (0±0%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ACD	A	201	-	-	0±0,17,19,19	-

There are no bond-length outliers.

There are no bond-angle outliers.

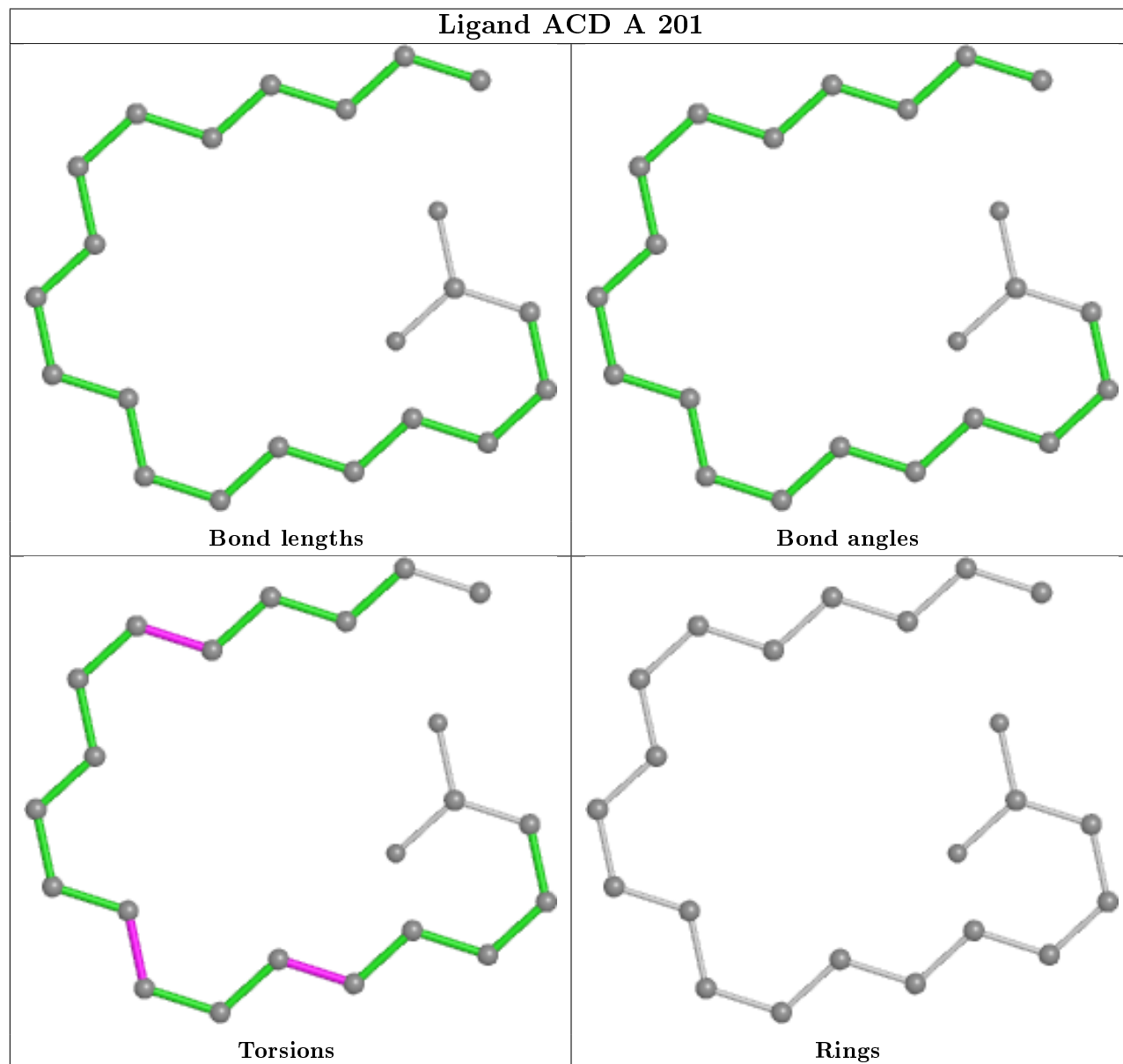
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 90% for the well-defined parts and 88% for the entire structure.

7.1 Chemical shift list 1

File name: input_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	1559
Number of shifts mapped to atoms	1559
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	6

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	122	-0.35 ± 0.20	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	119	0.28 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}'$	115	-0.08 ± 0.15	None needed (< 0.5 ppm)
^{15}N	118	0.45 ± 0.31	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 90%, i.e. 1318 atoms were assigned a chemical shift out of a possible 1471. 17 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	568/574 (99%)	229/229 (100%)	226/232 (97%)	113/113 (100%)
Sidechain	640/762 (84%)	397/446 (89%)	226/278 (81%)	17/38 (45%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	110/135 (81%)	62/71 (87%)	46/56 (82%)	2/8 (25%)
Overall	1318/1471 (90%)	688/746 (92%)	498/566 (88%)	132/159 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 1380 atoms were assigned a chemical shift out of a possible 1560. 17 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	595/609 (98%)	240/243 (99%)	237/246 (96%)	118/120 (98%)
Sidechain	666/807 (83%)	411/472 (87%)	238/296 (80%)	17/39 (44%)
Aromatic	119/144 (83%)	67/76 (88%)	50/60 (83%)	2/8 (25%)
Overall	1380/1560 (88%)	718/791 (91%)	525/602 (87%)	137/167 (82%)

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.

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	92	ASN	HB2	0.06	4.36 – 1.26	-8.9
1	A	62	GLY	HA2	1.19	5.87 – 2.07	-7.3
1	A	47	ILE	HG21	-0.62	2.13 – -0.57	-5.2
1	A	47	ILE	HG22	-0.62	2.13 – -0.57	-5.2
1	A	47	ILE	HG23	-0.62	2.13 – -0.57	-5.2
1	A	117	LYS	HE2	1.94	3.87 – 1.97	-5.1

7.1.5 Random Coil Index (RCI) plots ⓘ

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.

Random coil index (RCI) for chain A:

