



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 01:37 PM UTC

PDB ID : 6GVT / pdb_00006gvt
BMRB ID : 34290
Title : Hybrid structure of the pRN1 helix bundle domain in complex with DNA and 2 ATP molecules
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Deposited on : 2018-06-21

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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
Mogul : 2022.3.0, CSD as543be (2022)
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

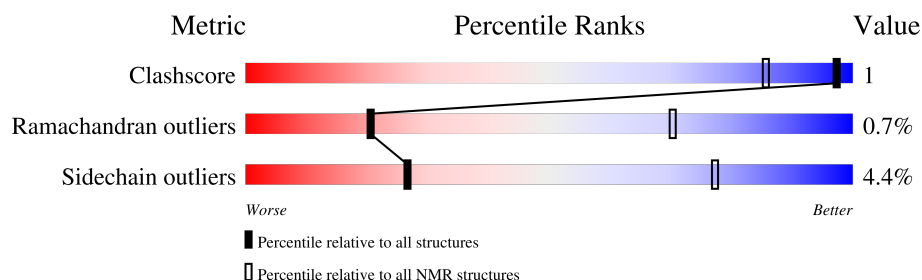
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR, SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 72%.

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	9	100%
2	B	115	96% .

2 Ensemble composition and analysis

This entry contains 20 models. Model 2 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	B:256-B:370 (115)	0.42	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, 8, 9, 11, 13, 14, 15, 17, 18, 20
2	7, 10, 12, 16, 19

3 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2312 atoms, of which 1118 are hydrogens and 0 are deuteriums.

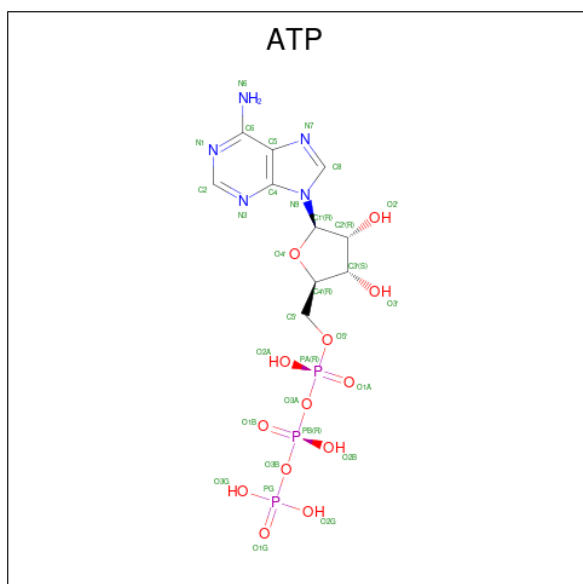
- Molecule 1 is a DNA chain called DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3').

Mol	Chain	Residues	Atoms						Trace
1	A	9	Total	C	H	N	O	P	0
			283	87	104	30	54	8	

- Molecule 2 is a protein called functional pRN1 primase.

Mol	Chain	Residues	Atoms						Trace
2	B	115	Total	C	H	N	O	S	0
			1941	611	990	160	177	3	

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



Mol	Chain	Residues	Atoms					
3	B	1	Total	C	H	N	O	P
			43	10	12	5	13	3
3	B	1	Total	C	H	N	O	P
			43	10	12	5	13	3

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

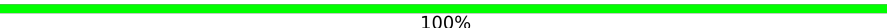
Mol	Chain	Residues	Atoms	
4	B	2	Total	Mg
			2	2

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

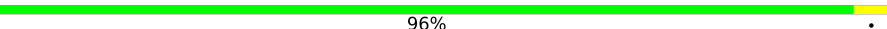
These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for 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: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  96%



4.2 Scores per residue for each member of the ensemble

Colouring as in section [4.1](#) above.

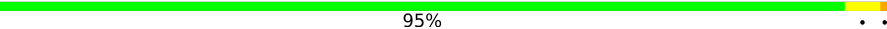
4.2.1 Score per residue for model 1

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  95%



4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  94% 6%



4.2.3 Score per residue for model 3

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  92% 8%



4.2.4 Score per residue for model 4

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  89% 11%



- Molecule 2: functional pRN1 primase

Chain B:  91% 9%



4.2.5 Score per residue for model 5

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  92% 8%



4.2.6 Score per residue for model 6

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  96% .



4.2.7 Score per residue for model 7

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  93% 7%



4.2.8 Score per residue for model 8

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

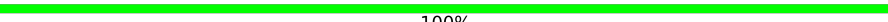
- Molecule 2: functional pRN1 primase

Chain B:  94% 5%



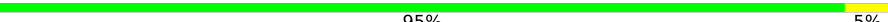
4.2.9 Score per residue for model 9

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  95% 5%



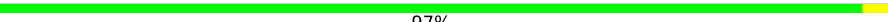
4.2.10 Score per residue for model 10

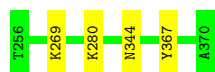
- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  89% 11%



- Molecule 2: functional pRN1 primase

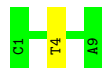
Chain B:  97% .



4.2.11 Score per residue for model 11

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  89% 11%



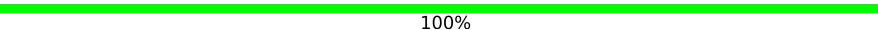
- Molecule 2: functional pRN1 primase

Chain B:  91% 8%



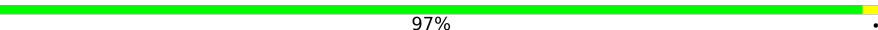
4.2.12 Score per residue for model 12

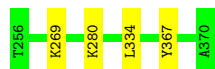
- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

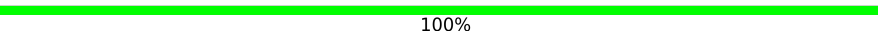
- Molecule 2: functional pRN1 primase

Chain B:  97%



4.2.13 Score per residue for model 13

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  92% 8%



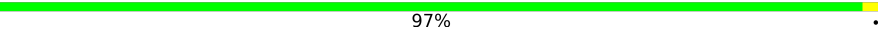
4.2.14 Score per residue for model 14

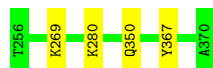
- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  89% 11%



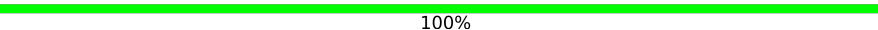
- Molecule 2: functional pRN1 primase

Chain B:  97% .



4.2.15 Score per residue for model 15

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

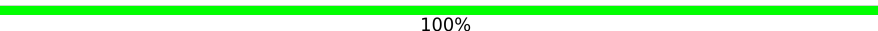
- Molecule 2: functional pRN1 primase

Chain B:  94% 5% .



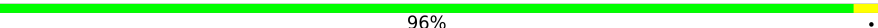
4.2.16 Score per residue for model 16

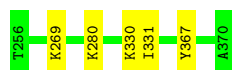
- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

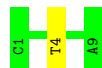
Chain B:  96% .



4.2.17 Score per residue for model 17

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  89% 11%



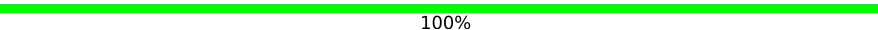
- Molecule 2: functional pRN1 primase

Chain B:  91% 9%



4.2.18 Score per residue for model 18

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

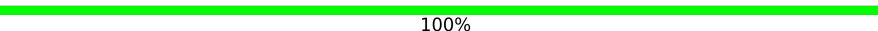
- Molecule 2: functional pRN1 primase

Chain B:  92% 7%



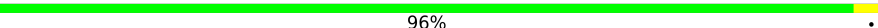
4.2.19 Score per residue for model 19

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

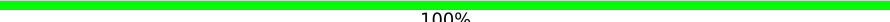
- Molecule 2: functional pRN1 primase

Chain B:  96%



4.2.20 Score per residue for model 20

- Molecule 1: DNA (5'-D(*CP*TP*GP*TP*GP*CP*TP*CP*A)-3')

Chain A:  100%

There are no outlier residues in this chain.

- Molecule 2: functional pRN1 primase

Chain B:  94% 6%



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 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
CYANA	structure calculation	
Amber	refinement	

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	1330
Number of shifts mapped to atoms	1330
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	72%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

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	179	104	104	0±0
2	B	951	990	986	1±1
All	All	23880	22360	22280	26

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
2:B:287:SER:N	2:B:288:PRO:CD	0.56	2.68	8	13
2:B:337:ARG:H	2:B:337:ARG:CD	0.45	2.24	2	2
2:B:337:ARG:H	2:B:337:ARG:HD2	0.45	1.72	1	1
1:A:3:DG:C6	2:B:340:LYS:HB3	0.45	2.46	4	1
2:B:287:SER:N	2:B:288:PRO:HD3	0.45	2.27	18	1
2:B:334:LEU:C	2:B:334:LEU:HD12	0.43	2.39	12	3
1:A:4:DT:H3	2:B:310:SER:HB2	0.42	1.74	17	2
1:A:1:DC:C6	1:A:1:DC:H5'	0.41	2.51	10	2
2:B:334:LEU:HD12	2:B:334:LEU:C	0.40	2.41	11	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	
2	B	113/115 (98%)	107±1 (94±1%)	5±1 (5±1%)	1±1 (1±1%)	20	70
All	All	2260/2300 (98%)	2135 (94%)	109 (5%)	16 (1%)	20	70

All 5 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	302	TYR	7
2	B	327	ASP	5
2	B	344	ASN	2
2	B	348	ASN	1
2	B	287	SER	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	
2	B	108/108 (100%)	103±1 (96±1%)	5±1 (4±1%)	27	77
All	All	2160/2160 (100%)	2065 (96%)	95 (4%)	27	77

All 17 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)
2	B	280	LYS	20
2	B	367	TYR	20
2	B	269	LYS	16
2	B	337	ARG	7
2	B	330	LYS	6

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Mol	Chain	Res	Type	Models (Total)
2	B	344	ASN	5
2	B	335	LEU	3
2	B	347	TRP	3
2	B	331	ILE	3
2	B	321	MET	3
2	B	342	LYS	3
2	B	366	LYS	1
2	B	301	THR	1
2	B	292	ILE	1
2	B	302	TYR	1
2	B	350	GLN	1
2	B	327	ASP	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 for Mogul analysis.

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
3	ATP	B	402	4	32,33,33	0.78±0.01	0±0 (0±0%)
3	ATP	B	401	4	32,33,33	0.76±0.02	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
3	ATP	B	402	4	48,52,52	0.78±0.02	0±0 (0±0%)
3	ATP	B	401	4	48,52,52	0.74±0.01	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
3	ATP	B	402	4	-	0±0,22,38,38	0±0,3,3,3
3	ATP	B	401	4	-	0±0,22,38,38	0±0,3,3,3

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
3	B	402	ATP	O4'-C1'-N9	2.38	112.67	108.09	7	3
3	B	402	ATP	O3G-PG-O2G	2.04	115.45	107.80	13	2

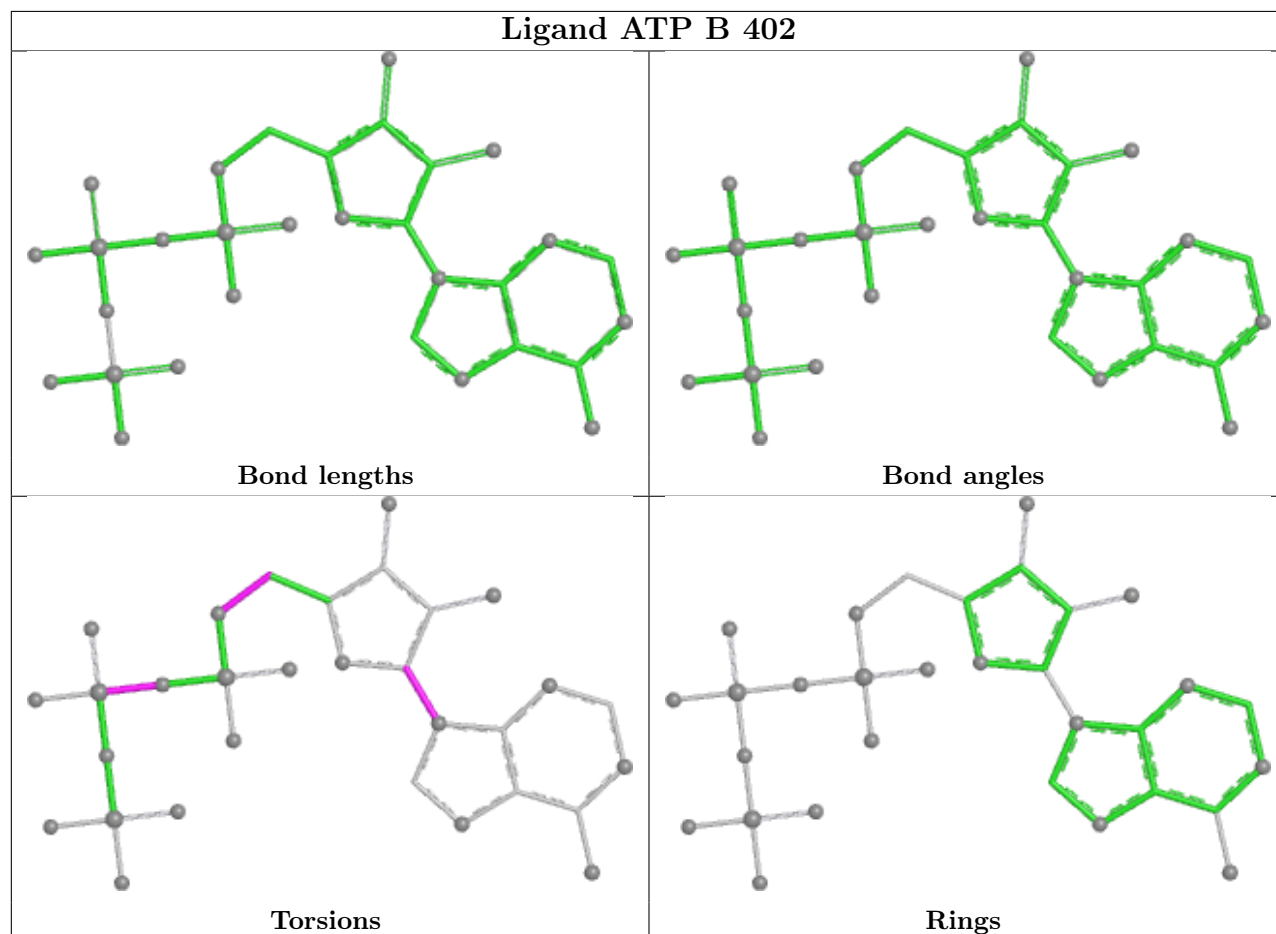
There are no chirality outliers.

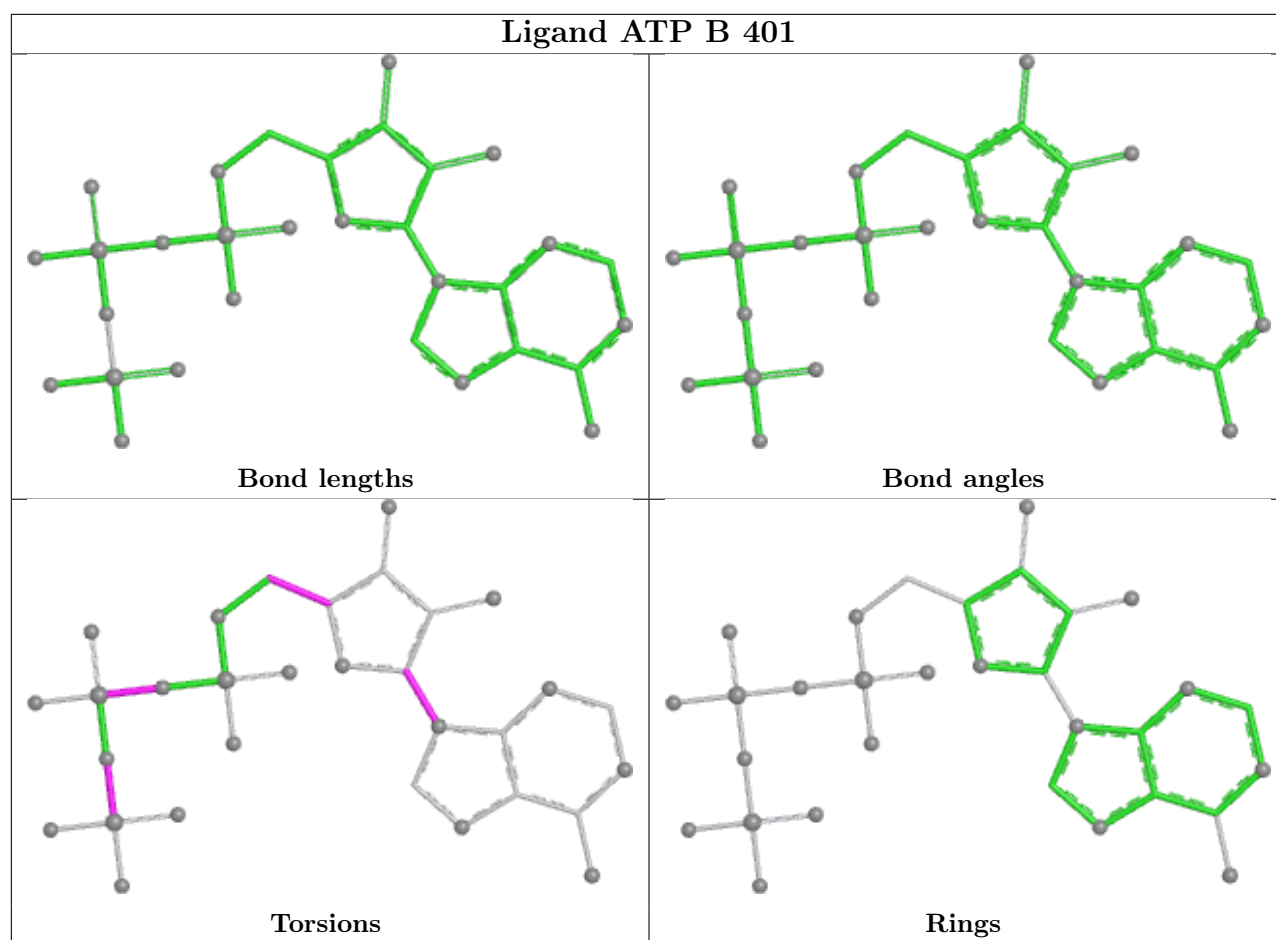
There are no torsion outliers.

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 [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 72% for the well-defined parts and 72% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: *starch_output*

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	1330
Number of shifts mapped to atoms	1330
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	104	-0.39 ± 0.09	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	101	0.32 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	97	1.43 ± 0.51	Should be applied

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 72%, i.e. 1320 atoms were assigned a chemical shift out of a possible 1843. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	405/568 (71%)	204/228 (89%)	104/230 (45%)	97/110 (88%)
Sidechain	767/992 (77%)	524/639 (82%)	239/315 (76%)	4/38 (11%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	74/107 (69%)	38/52 (73%)	33/49 (67%)	3/6 (50%)
Sugar	62/108 (57%)	62/63 (98%)	0/45 (0%)	0/0 (—%)
Base	12/68 (18%)	12/41 (29%)	0/16 (0%)	0/11 (0%)
Overall	1320/1843 (72%)	840/1023 (82%)	376/655 (57%)	104/165 (63%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 72%, i.e. 1320 atoms were assigned a chemical shift out of a possible 1843. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	405/568 (71%)	204/228 (89%)	104/230 (45%)	97/110 (88%)
Sidechain	767/992 (77%)	524/639 (82%)	239/315 (76%)	4/38 (11%)
Aromatic	74/107 (69%)	38/52 (73%)	33/49 (67%)	3/6 (50%)
Sugar	62/108 (57%)	62/63 (98%)	0/45 (0%)	0/0 (—%)
Base	12/68 (18%)	12/41 (29%)	0/16 (0%)	0/11 (0%)
Overall	1320/1843 (72%)	840/1023 (82%)	376/655 (57%)	104/165 (63%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

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	A	5	DG	H2''	1.12	1.57 – 3.80	-7.0
1	B	351	LYS	HB2	0.44	0.58 – 2.97	-5.6
1	B	370	ALA	N	105.10	106.13 – 140.55	-5.3
1	A	4	DT	H2''	1.03	1.04 – 3.68	-5.0

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. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain B:

