



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:58 PM UTC

PDB ID : 9LEH / pdb_00009leh
Title : nitrile synthetase ArtA
Authors : Ma, H.L.; Zhang, K.K.
Deposited on : 2025-01-07
Resolution : 1.81 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp>

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)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

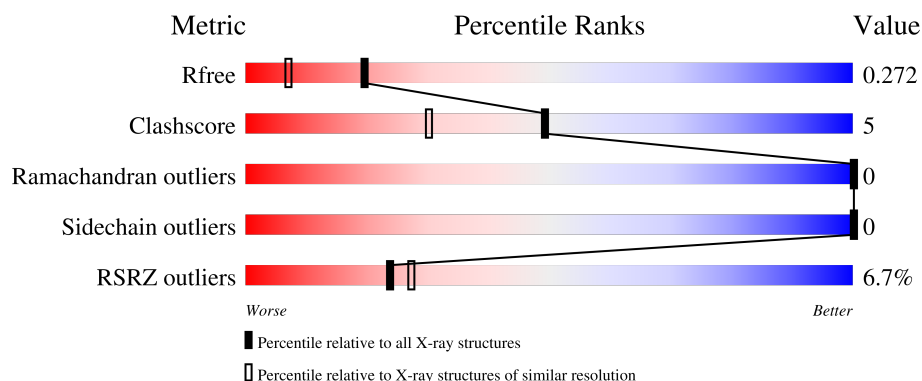
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.81 Å.

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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1112 (1.82-1.82)
Clashscore	190562	1148 (1.82-1.82)
Ramachandran outliers	187476	1140 (1.82-1.82)
Sidechain outliers	187428	1140 (1.82-1.82)
RSRZ outliers	180081	1112 (1.82-1.82)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	435	
1	B	435	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	GOL	B	503	-	-	X	-

2 Entry composition [i](#)

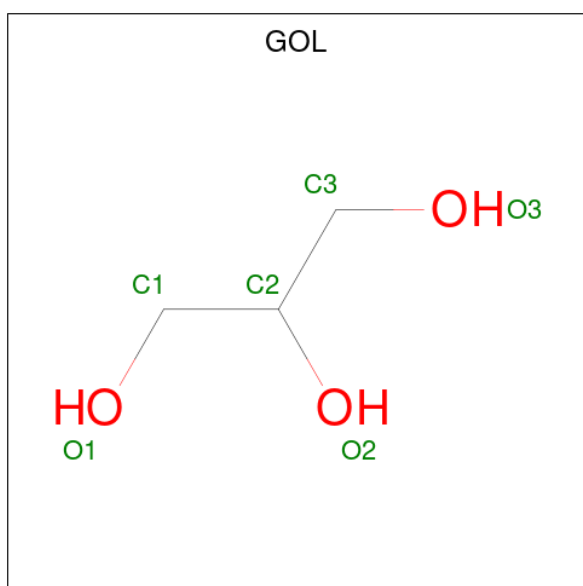
There are 6 unique types of molecules in this entry. The entry contains 6552 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called nitrile synthetase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	380	Total	C	N	O	S	0	1	0
			2972	1883	512	568	9			
1	B	381	Total	C	N	O	S	0	1	0
			2983	1889	516	569	9			

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



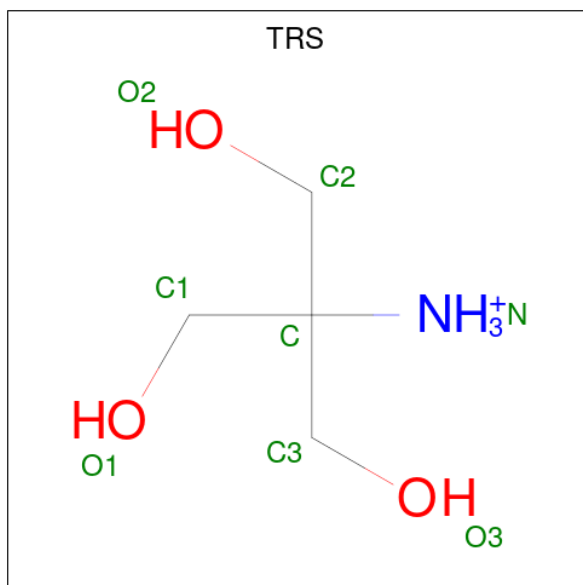
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			8	4	1	3		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mg	0	0
			1	1		
4	B	2	Total	Mg	0	0
			2	2		

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).

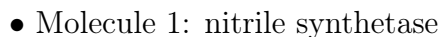


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	B	1	Total	C	N	O	P	0	0
			31	10	5	13	3		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	268	Total	O	0	0
			268	268		
6	B	257	Total	O	0	0
			257	257		

- Molecule 1: nitrile synthetase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	90.76Å 105.03Å 85.39Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	66.26 – 1.81 66.26 – 1.81	Depositor EDS
% Data completeness (in resolution range)	99.8 (66.26-1.81) 99.9 (66.26-1.81)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 1.81Å)	Xtriage
Refinement program	PHENIX (1.17.1_3660: ???)	Depositor
R, R_{free}	0.193 , 0.234 (Not available) , 0.272	Depositor DCC
R_{free} test set	3747 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	29.6	Xtriage
Anisotropy	0.120	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 46.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6552	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.72% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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 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	0.26	0/3034	0.48	0/4115
1	B	0.28	0/3045	0.47	0/4129
All	All	0.27	0/6079	0.48	0/8244

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2972	0	2938	34	0
1	B	2983	0	2951	32	0
2	A	18	0	24	2	0
2	B	12	0	16	5	0
3	A	8	0	12	0	0
4	A	1	0	0	0	0
4	B	2	0	0	0	0
5	B	31	0	12	0	0
6	A	268	0	0	9	2
6	B	257	0	0	8	2
All	All	6552	0	5953	65	2

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 5.

All (65) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:HIS:HA	2:B:503:GOL:H11	1.50	0.93
1:A:115:SER:OG	6:A:601:HOH:O	1.89	0.89
1:B:13:SER:O	6:B:601:HOH:O	1.91	0.88
1:B:389:GLU:OE2	6:B:602:HOH:O	1.93	0.85
1:A:387:GLU:OE2	6:A:602:HOH:O	1.95	0.84
1:A:164:TRP:NE1	6:A:604:HOH:O	2.11	0.81
1:B:19:GLN:NE2	1:B:23:GLU:OE2	2.15	0.80
1:A:266:ASN:HD22	2:A:504:GOL:H11	1.47	0.80
1:B:19:GLN:NE2	1:B:23:GLU:CD	2.39	0.80
1:A:16:GLU:OE1	1:A:171:ARG:NH1	2.16	0.79
1:A:23:GLU:HG3	1:A:24:LEU:HD22	1.67	0.77
1:B:275:GLY:H	2:B:503:GOL:H31	1.55	0.71
1:A:244:GLU:OE2	6:A:603:HOH:O	2.10	0.68
1:B:25:GLY:O	6:B:603:HOH:O	2.12	0.66
1:A:13:SER:O	6:A:606:HOH:O	2.15	0.65
1:B:218:PHE:HA	2:B:502:GOL:H12	1.77	0.65
1:B:41:SER:HA	1:B:141:THR:HG21	1.80	0.64
1:A:244:GLU:O	1:A:247:GLN:HG2	2.01	0.61
1:B:39:LEU:HD22	1:B:192:SER:HB3	1.82	0.60
1:B:98:LYS:NZ	6:B:608:HOH:O	2.34	0.60
1:B:28:GLU:HG2	1:B:54:LYS:HE2	1.84	0.59
1:A:38:GLY:HA3	2:A:501:GOL:H2	1.86	0.58
1:A:151:ARG:NH1	6:A:601:HOH:O	2.33	0.57
1:B:68:ASN:CG	1:B:71:ARG:HG3	2.32	0.54
1:A:54:LYS:HE3	6:A:662:HOH:O	2.07	0.54
1:B:71:ARG:HB3	1:B:71:ARG:NH2	2.23	0.54
1:B:196:LEU:HD13	1:B:211:PRO:HD2	1.91	0.52
1:A:368:ARG:HB3	2:B:503:GOL:H12	1.91	0.52
1:B:247:GLN:NE2	6:B:604:HOH:O	2.13	0.52
1:B:19:GLN:HE22	1:B:23:GLU:CD	2.13	0.51
1:A:316:LYS:N	1:A:316:LYS:HD3	2.26	0.51
1:B:19:GLN:HE21	1:B:23:GLU:CD	2.17	0.50
1:A:25:GLY:O	1:A:27:ARG:NH1	2.46	0.49
1:A:387:GLU:HG3	1:A:391:GLN:OE1	2.12	0.49
1:B:141:THR:HB	1:B:169:TYR:HE2	1.76	0.49
1:B:150:ARG:NH2	6:B:613:HOH:O	2.44	0.48
1:A:164:TRP:CD1	6:A:604:HOH:O	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:ARG:HB3	1:B:71:ARG:HH21	1.80	0.47
1:A:14:ARG:HD3	1:A:165:TYR:CE2	2.50	0.47
1:B:238:LYS:HA	1:B:362:TYR:O	2.14	0.46
1:B:150:ARG:HG2	6:B:737:HOH:O	2.15	0.46
1:A:196:LEU:CD2	1:A:211:PRO:HD2	2.46	0.45
1:A:104[A]:HIS:NE2	1:A:309:GLU:OE2	2.46	0.45
1:B:20:GLN:O	1:B:24:LEU:HB2	2.17	0.45
1:A:138:LEU:O	1:A:165:TYR:HA	2.15	0.45
1:A:14:ARG:HG3	1:A:14:ARG:NH1	2.31	0.45
1:A:34:MET:HE3	1:A:138:LEU:HD21	1.99	0.45
1:A:196:LEU:HD21	1:A:211:PRO:HD2	1.99	0.44
1:B:316:LYS:HD2	1:B:316:LYS:H	1.83	0.44
1:A:209:SER:O	1:A:209:SER:OG	2.35	0.43
1:B:22:LYS:O	1:B:27:ARG:NH2	2.47	0.43
1:A:151:ARG:NH2	1:A:281:GLU:OE2	2.51	0.42
1:B:102:ARG:HD3	6:B:605:HOH:O	2.18	0.42
1:B:195:LYS:HB3	1:B:195:LYS:HE2	1.59	0.42
1:A:43:TYR:CD2	1:A:179:LYS:HG2	2.55	0.42
1:B:275:GLY:N	2:B:503:GOL:H31	2.31	0.41
1:A:13:SER:HB3	1:A:164:TRP:HZ3	1.85	0.41
1:A:14:ARG:HG3	1:A:14:ARG:HH11	1.85	0.41
1:A:385:ARG:O	1:A:389:GLU:HG3	2.20	0.41
1:A:209:SER:HB2	1:B:385:ARG:HE	1.85	0.41
1:B:28:GLU:HG2	1:B:54:LYS:CE	2.48	0.41
1:B:141:THR:HB	1:B:169:TYR:CE2	2.55	0.41
1:A:68:ASN:CG	1:A:71:ARG:HG3	2.46	0.40
1:A:102:ARG:NH1	6:A:609:HOH:O	2.30	0.40
1:A:195:LYS:HA	1:A:195:LYS:HE2	2.03	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:840:HOH:O	6:B:727:HOH:O[3_445]	2.06	0.14
6:A:809:HOH:O	6:B:754:HOH:O[2_565]	2.07	0.13

5.3 Torsion angles

5.3.1 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 X-ray entries followed by that with respect to entries of similar resolution.

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	377/435 (87%)	371 (98%)	6 (2%)	0	100	100
1	B	378/435 (87%)	369 (98%)	9 (2%)	0	100	100
All	All	755/870 (87%)	740 (98%)	15 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 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 X-ray entries followed by that with respect to entries of similar resolution.

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	326/370 (88%)	326 (100%)	0	100	100
1	B	327/370 (88%)	327 (100%)	0	100	100
All	All	653/740 (88%)	653 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	19	GLN
1	A	157	GLN
1	A	233	ASN
1	A	322	GLN
1	B	19	GLN
1	B	233	ASN

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Mol	Chain	Res	Type
1	B	254	GLN
1	B	391	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 3 are monoatomic - leaving 7 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or 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 length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	GOL	A	502	-	5,5,5	0.96	0	5,5,5	1.06	0
3	TRS	A	503	-	7,7,7	0.35	0	9,9,9	0.33	0
5	ATP	B	501	4	32,33,33	0.57	0	48,52,52	0.63	0
2	GOL	B	503	-	5,5,5	1.03	0	5,5,5	0.80	0
2	GOL	A	501	-	5,5,5	0.91	0	5,5,5	1.08	0
2	GOL	A	504	-	5,5,5	0.87	0	5,5,5	0.97	0
2	GOL	B	502	-	5,5,5	0.93	0	5,5,5	0.98	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	GOL	A	502	-	-	3/4/4/4	-
3	TRS	A	503	-	-	0/9/9/9	-
5	ATP	B	501	4	-	4/22/38/38	0/3/3/3
2	GOL	B	503	-	-	2/4/4/4	-
2	GOL	A	501	-	-	1/4/4/4	-
2	GOL	A	504	-	-	2/4/4/4	-
2	GOL	B	502	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	502	GOL	O1-C1-C2-O2
2	A	502	GOL	O1-C1-C2-C3
2	A	502	GOL	C1-C2-C3-O3
2	A	504	GOL	C1-C2-C3-O3
2	B	503	GOL	C1-C2-C3-O3
2	B	503	GOL	O2-C2-C3-O3
5	B	501	ATP	PG-O3B-PB-O1B
5	B	501	ATP	PA-O3A-PB-O1B
5	B	501	ATP	PG-O3B-PB-O2B
2	A	504	GOL	O2-C2-C3-O3
2	A	501	GOL	O2-C2-C3-O3
5	B	501	ATP	PA-O3A-PB-O2B

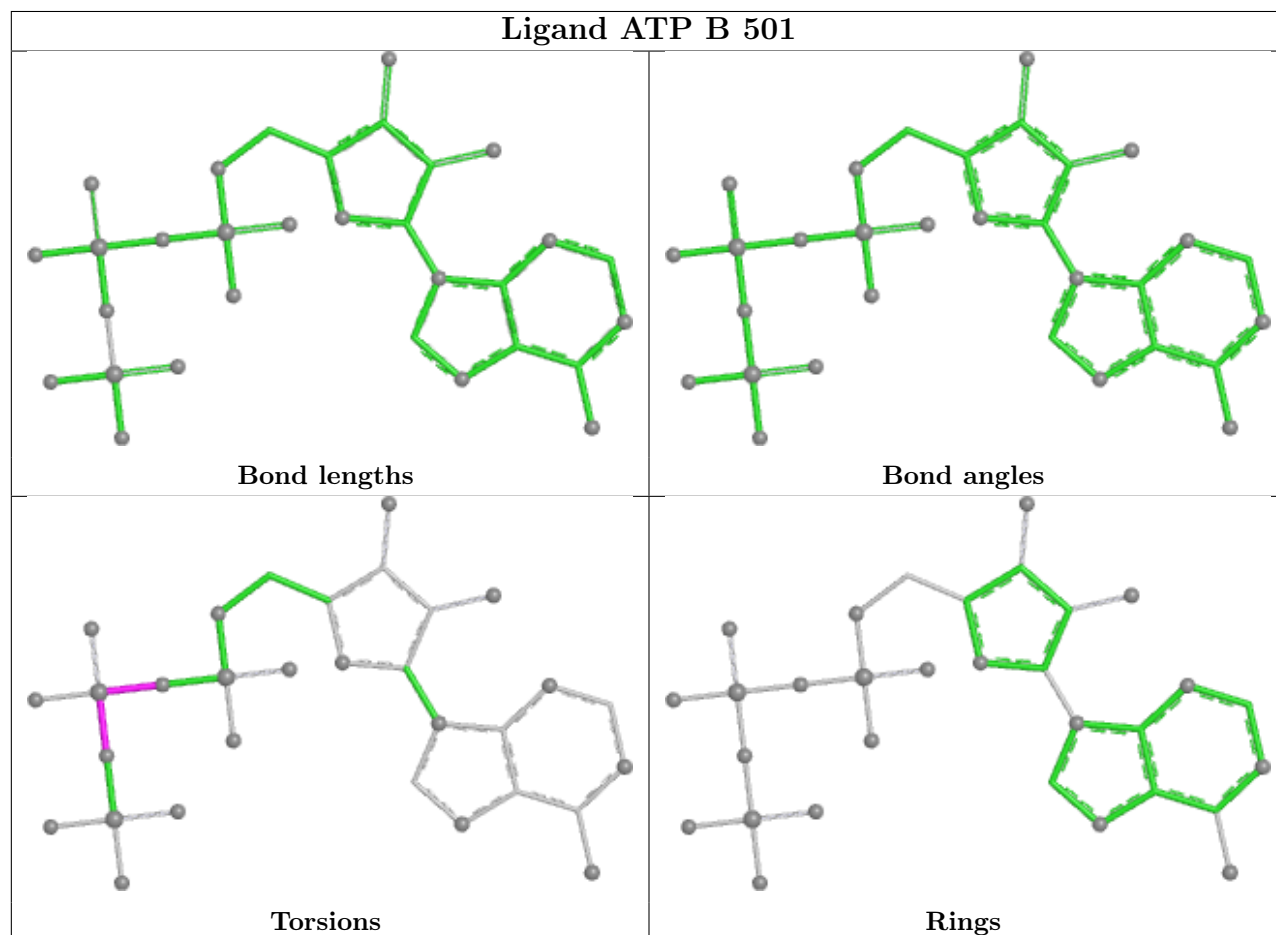
There are no ring outliers.

4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	503	GOL	4	0
2	A	501	GOL	1	0
2	A	504	GOL	1	0
2	B	502	GOL	1	0

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.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	380/435 (87%)	0.32	18 (4%) 36 43	11, 32, 67, 119	1 (0%)
1	B	381/435 (87%)	0.49	33 (8%) 16 18	12, 33, 78, 121	1 (0%)
All	All	761/870 (87%)	0.41	51 (6%) 24 27	11, 32, 71, 121	2 (0%)

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	192	SER	9.2
1	B	188	LEU	6.1
1	A	24	LEU	5.2
1	B	24	LEU	5.2
1	A	232	VAL	4.7
1	B	393	ALA	4.5
1	A	393	ALA	4.4
1	A	389	GLU	4.2
1	B	207	PHE	4.1
1	A	12	VAL	4.0
1	B	12	VAL	4.0
1	A	13	SER	3.8
1	A	231	VAL	3.7
1	A	390	LEU	3.6
1	B	176	ARG	3.5
1	B	189	ALA	3.4
1	B	190	PHE	3.3
1	B	191	MET	3.2
1	B	181	ALA	3.1
1	B	187	GLY	3.0
1	A	195	LYS	3.0
1	B	392	THR	3.0
1	B	13	SER	2.9
1	B	186	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	14	ARG	2.8
1	B	209	SER	2.7
1	B	23	GLU	2.7
1	B	390	LEU	2.7
1	A	210	GLY	2.7
1	B	32	VAL	2.7
1	B	196	LEU	2.6
1	A	191	MET	2.5
1	A	391	GLN	2.5
1	B	198	GLY	2.5
1	B	25	GLY	2.4
1	A	176	ARG	2.4
1	A	192	SER	2.4
1	A	164	TRP	2.3
1	A	196	LEU	2.3
1	B	194	ARG	2.3
1	B	79	PHE	2.3
1	B	72	LEU	2.3
1	B	391	GLN	2.2
1	B	26	ASP	2.1
1	B	232	VAL	2.1
1	A	230	SER	2.1
1	B	210	GLY	2.1
1	B	164	TRP	2.0
1	B	14	ARG	2.0
1	B	182	GLU	2.0
1	B	197	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

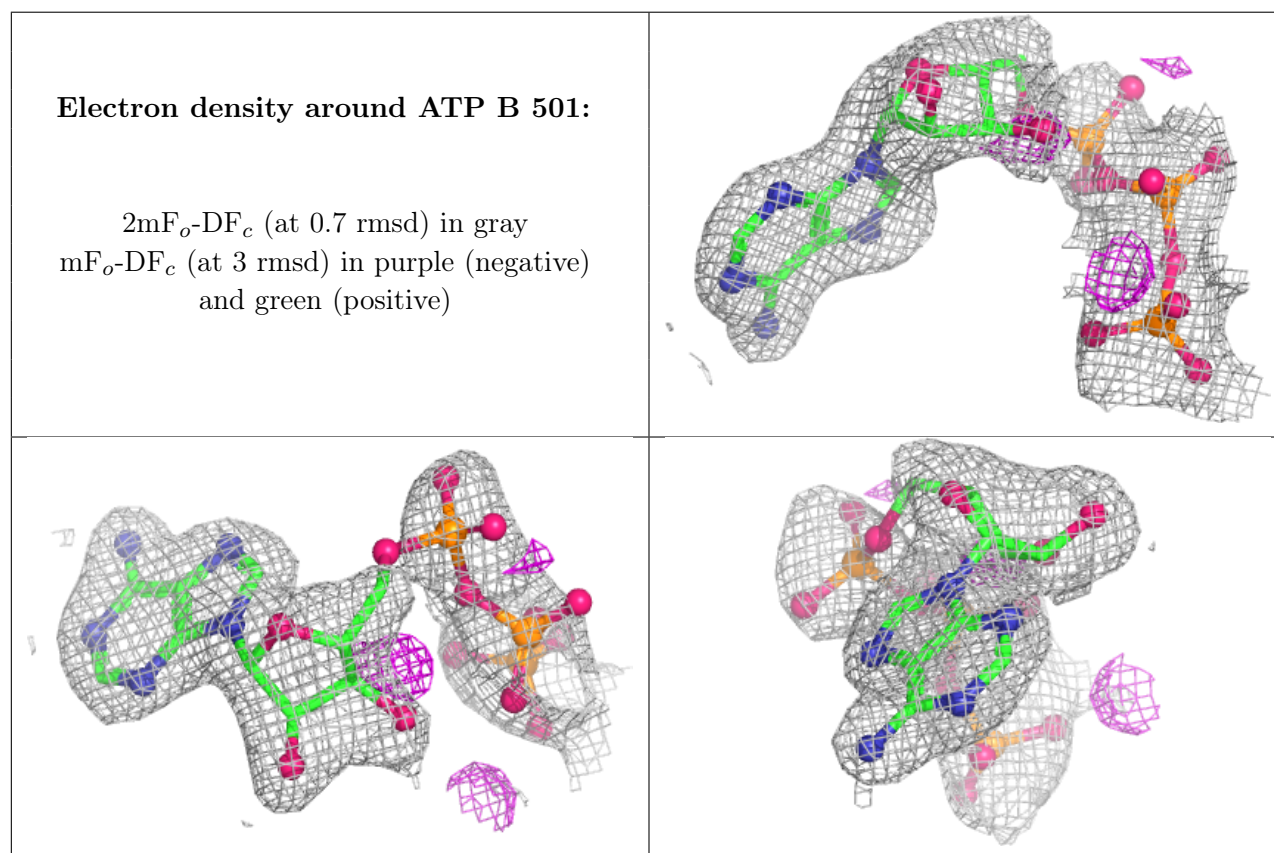
6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GOL	B	503	6/6	0.68	0.22	38,58,59,62	0
2	GOL	A	502	6/6	0.71	0.23	80,82,82,82	0
2	GOL	A	501	6/6	0.75	0.19	78,82,83,85	0
5	ATP	B	501	31/31	0.83	0.12	44,66,136,136	0
3	TRS	A	503	8/8	0.87	0.16	63,66,68,69	0
2	GOL	A	504	6/6	0.87	0.11	29,40,46,51	0
2	GOL	B	502	6/6	0.89	0.10	48,58,59,61	0
4	MG	B	504	1/1	0.94	0.20	30,30,30,30	0
4	MG	A	505	1/1	0.97	0.17	30,30,30,30	0
4	MG	B	505	1/1	0.98	0.16	30,30,30,30	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers ⓘ

There are no such residues in this entry.