



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 12:47 PM UTC

PDB ID : 9K0A / pdb_00009k0a
Title : Structure of Pictet-Spenglerases KslB in complex with product
Authors : Mori, T.; Renata, H.; Abe, I.
Deposited on : 2024-10-15
Resolution : 2.17 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

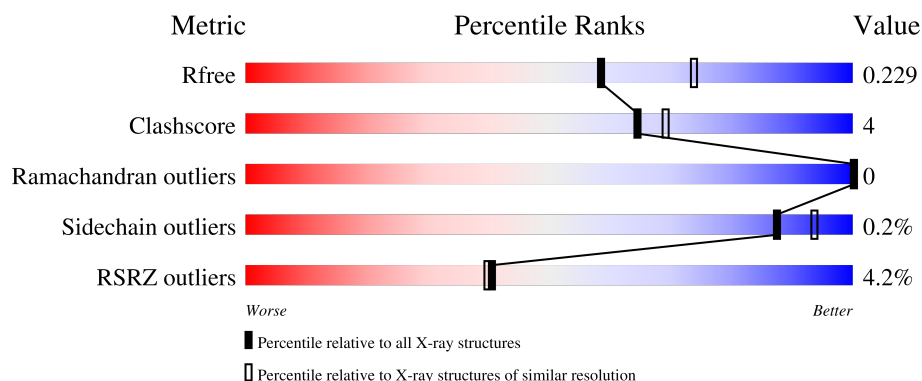
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.17 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	337	
1	B	337	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4844 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 Cucumopine synthase C-terminal helical bundle domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	286	Total	C	N	O	S	0	1	0
			2274	1461	385	425	3			
1	B	287	Total	C	N	O	S	0	0	0
			2268	1453	384	428	3			

There are 40 discrepancies between the modelled and reference sequences:

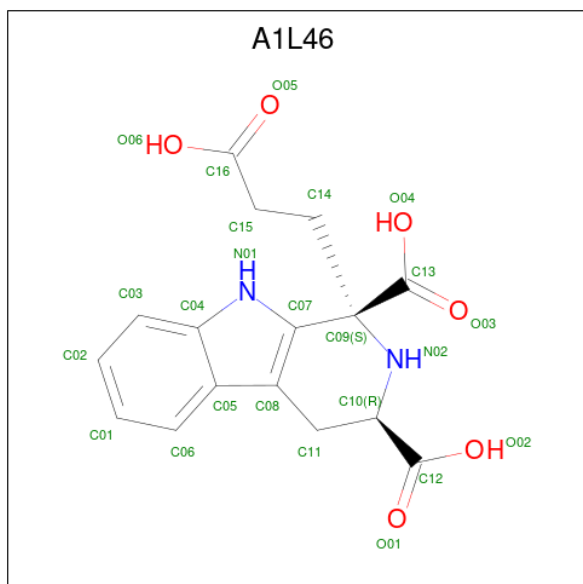
Chain	Residue	Modelled	Actual	Comment	Reference
A	-19	MET	-	initiating methionine	UNP E4NIM4
A	-18	GLY	-	expression tag	UNP E4NIM4
A	-17	SER	-	expression tag	UNP E4NIM4
A	-16	SER	-	expression tag	UNP E4NIM4
A	-15	HIS	-	expression tag	UNP E4NIM4
A	-14	HIS	-	expression tag	UNP E4NIM4
A	-13	HIS	-	expression tag	UNP E4NIM4
A	-12	HIS	-	expression tag	UNP E4NIM4
A	-11	HIS	-	expression tag	UNP E4NIM4
A	-10	HIS	-	expression tag	UNP E4NIM4
A	-9	SER	-	expression tag	UNP E4NIM4
A	-8	SER	-	expression tag	UNP E4NIM4
A	-7	GLY	-	expression tag	UNP E4NIM4
A	-6	LEU	-	expression tag	UNP E4NIM4
A	-5	VAL	-	expression tag	UNP E4NIM4
A	-4	PRO	-	expression tag	UNP E4NIM4
A	-3	ARG	-	expression tag	UNP E4NIM4
A	-2	GLY	-	expression tag	UNP E4NIM4
A	-1	SER	-	expression tag	UNP E4NIM4
A	0	HIS	-	expression tag	UNP E4NIM4
B	-19	MET	-	initiating methionine	UNP E4NIM4
B	-18	GLY	-	expression tag	UNP E4NIM4
B	-17	SER	-	expression tag	UNP E4NIM4
B	-16	SER	-	expression tag	UNP E4NIM4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-15	HIS	-	expression tag	UNP E4NIM4
B	-14	HIS	-	expression tag	UNP E4NIM4
B	-13	HIS	-	expression tag	UNP E4NIM4
B	-12	HIS	-	expression tag	UNP E4NIM4
B	-11	HIS	-	expression tag	UNP E4NIM4
B	-10	HIS	-	expression tag	UNP E4NIM4
B	-9	SER	-	expression tag	UNP E4NIM4
B	-8	SER	-	expression tag	UNP E4NIM4
B	-7	GLY	-	expression tag	UNP E4NIM4
B	-6	LEU	-	expression tag	UNP E4NIM4
B	-5	VAL	-	expression tag	UNP E4NIM4
B	-4	PRO	-	expression tag	UNP E4NIM4
B	-3	ARG	-	expression tag	UNP E4NIM4
B	-2	GLY	-	expression tag	UNP E4NIM4
B	-1	SER	-	expression tag	UNP E4NIM4
B	0	HIS	-	expression tag	UNP E4NIM4

- Molecule 2 is (1 {S},3 {S})-1-(3-hydroxy-3-oxopropyl)-2,3,4,9-tetrahydropyrido[3,4-b]indole-1,3-dicarboxylic acid (CCD ID: A1L46) (formula: C₁₆H₁₆N₂O₆) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			24	16	2	6		
2	B	1	Total	C	N	O	0	0
			24	16	2	6		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



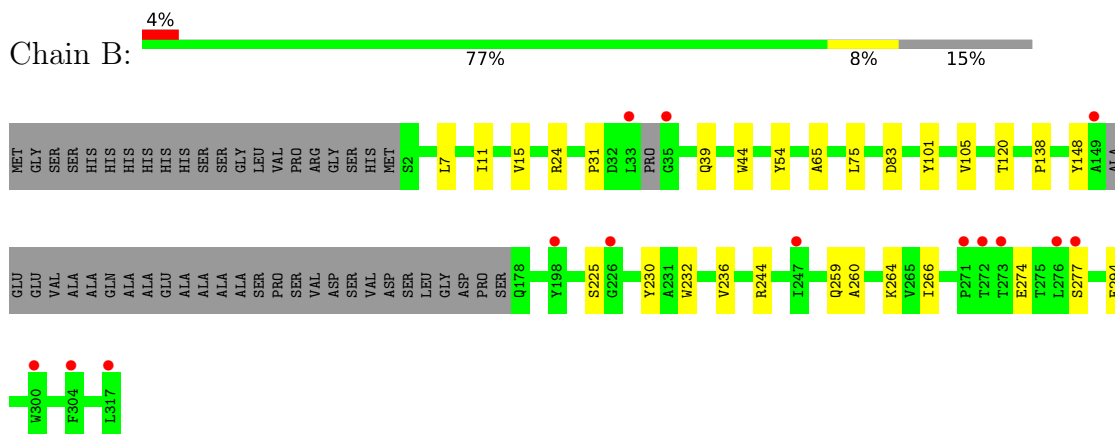
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	116	Total	O	0	0
			116	116		
4	B	120	Total	O	0	0
			120	120		

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- Molecule 1: Cucumopine synthase C-terminal helical bundle domain-containing protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	57.08Å 82.99Å 64.50Å 90.00° 109.32° 90.00°	Depositor
Resolution (Å)	49.22 – 2.17 49.22 – 2.17	Depositor EDS
% Data completeness (in resolution range)	94.8 (49.22-2.17) 93.8 (49.22-2.17)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.34 (at 2.18Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.200 , 0.249 (Not available) , 0.229	Depositor DCC
R_{free} test set	1999 reflections (6.63%)	wwPDB-VP
Wilson B-factor (Å ²)	24.9	Xtriage
Anisotropy	0.248	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 38.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4844	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.98% 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, A1L46

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	0.10	0/2335	0.28	0/3198
1	B	0.11	0/2327	0.30	0/3185
All	All	0.10	0/4662	0.29	0/6383

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	2274	0	2226	19	0
1	B	2268	0	2201	18	0
2	A	24	0	0	1	0
2	B	24	0	0	0	0
3	A	12	0	16	1	0
3	B	6	0	8	2	0
4	A	116	0	0	1	0
4	B	120	0	0	0	0
All	All	4844	0	4451	35	0

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 4.

All (35) 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:230:TYR:HB3	1:B:266:ILE:HG12	1.85	0.58
1:B:260:ALA:HB3	3:B:402:GOL:H31	1.85	0.58
1:B:294:GLU:H	1:B:294:GLU:CD	2.14	0.56
1:B:24:ARG:HD2	1:B:31:PRO:HD3	1.88	0.54
1:B:120:THR:HG23	1:B:236:VAL:HB	1.89	0.53
1:A:40:TYR:HB3	1:B:148:TYR:CZ	2.45	0.52
1:A:120:THR:HG23	1:A:236:VAL:HB	1.93	0.51
1:A:247:ILE:HB	1:A:274:GLU:HG3	1.92	0.51
1:A:74:ASN:ND2	4:A:516:HOH:O	2.44	0.50
1:B:232:TRP:CE2	1:B:264:LYS:HD3	2.46	0.50
1:A:230:TYR:HB3	1:A:266:ILE:HG12	1.94	0.48
1:A:232:TRP:CE2	1:A:264:LYS:HD3	2.48	0.48
1:B:11:ILE:O	1:B:15:VAL:HG23	2.14	0.48
1:B:44:TRP:CZ2	1:B:138:PRO:HD3	2.49	0.48
1:A:247:ILE:HG12	1:A:276:LEU:O	2.13	0.48
1:A:52:ARG:HD2	3:A:402:GOL:H2	1.95	0.47
1:B:259:GLN:H	3:B:402:GOL:H12	1.79	0.47
1:A:256:ARG:HG3	1:A:266:ILE:HB	1.96	0.47
1:A:189:LEU:HD21	1:A:298:ALA:HB3	1.97	0.46
1:A:225:SER:OG	2:A:401:A1L46:O06	2.33	0.46
1:A:91:GLY:HA2	1:A:95:PHE:O	2.16	0.46
1:A:44:TRP:CZ2	1:A:138:PRO:HD3	2.52	0.44
1:B:244:ARG:HD3	1:B:277:SER:HB2	2.00	0.44
1:A:55:ALA:HB2	1:A:126:VAL:HG12	1.99	0.44
1:B:7:LEU:O	1:B:11:ILE:HG12	2.18	0.43
1:A:99:ALA:O	1:A:103:GLN:HG3	2.20	0.42
1:B:65:ALA:HA	1:B:75:LEU:HD11	2.01	0.42
1:A:147:ARG:HA	1:B:39:GLN:HA	2.02	0.42
1:B:225:SER:HB2	1:B:274:GLU:CD	2.45	0.42
1:A:6:GLU:HB3	1:A:101:TYR:OH	2.19	0.41
1:A:218:LEU:HD21	1:A:309:PRO:HB3	2.02	0.41
1:B:54:TYR:OH	1:B:83:ASP:OD1	2.27	0.41
1:A:218:LEU:HD23	1:A:218:LEU:HA	1.95	0.41
1:B:65:ALA:HA	1:B:75:LEU:CD1	2.52	0.40
1:B:101:TYR:O	1:B:105:VAL:HG23	2.21	0.40

There are no symmetry-related clashes.

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	283/337 (84%)	276 (98%)	7 (2%)	0	100	100
1	B	281/337 (83%)	272 (97%)	9 (3%)	0	100	100
All	All	564/674 (84%)	548 (97%)	16 (3%)	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	245/285 (86%)	244 (100%)	1 (0%)	84	91
1	B	243/285 (85%)	243 (100%)	0	100	100
All	All	488/570 (86%)	487 (100%)	1 (0%)	87	94

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	256	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	74	ASN
1	A	204	GLN

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Mol	Chain	Res	Type
1	B	48	ASN
1	B	74	ASN
1	B	178	GLN
1	B	192	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

5 ligands are modelled in this entry.

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	$\# Z > 2$
3	GOL	A	403	-	5,5,5	0.91	0	5,5,5	1.10	0
2	A1L46	A	401	-	24,26,26	1.33	3 (12%)	29,39,39	1.31	4 (13%)
2	A1L46	B	401	-	24,26,26	1.31	3 (12%)	29,39,39	1.31	5 (17%)
3	GOL	B	402	-	5,5,5	0.94	0	5,5,5	1.08	0
3	GOL	A	402	-	5,5,5	0.90	0	5,5,5	1.14	1 (20%)

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	GOL	A	403	-	-	0/4/4/4	-
2	A1L46	A	401	-	-	7/16/31/31	0/3/3/3
2	A1L46	B	401	-	-	7/16/31/31	0/3/3/3
3	GOL	B	402	-	-	0/4/4/4	-
3	GOL	A	402	-	-	0/4/4/4	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	A1L46	C05-C04	-3.43	1.37	1.41
2	B	401	A1L46	C05-C04	-3.39	1.37	1.41
2	A	401	A1L46	C07-N01	2.48	1.42	1.38
2	B	401	A1L46	C07-N01	2.47	1.42	1.38
2	A	401	A1L46	C10-N02	2.15	1.49	1.47
2	B	401	A1L46	C10-N02	2.05	1.49	1.47

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	A1L46	C09-C07-N01	2.78	126.67	123.84
2	B	401	A1L46	C09-C07-N01	2.77	126.66	123.84
2	B	401	A1L46	C06-C05-C04	2.46	121.39	118.84
2	A	401	A1L46	C06-C05-C04	2.43	121.35	118.84
2	B	401	A1L46	C04-N01-C07	-2.28	105.90	109.06
2	A	401	A1L46	C05-C04-N01	2.27	110.78	108.23
2	B	401	A1L46	C05-C04-N01	2.26	110.78	108.23
2	A	401	A1L46	C04-N01-C07	-2.23	105.97	109.06
3	A	402	GOL	C3-C2-C1	-2.05	104.29	111.80
2	B	401	A1L46	O02-C12-C10	2.02	120.35	113.51

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	A1L46	C07-C09-C13-O04
2	A	401	A1L46	C14-C09-C13-O04
2	A	401	A1L46	C07-C09-C14-C15
2	A	401	A1L46	N02-C09-C14-C15
2	B	401	A1L46	C07-C09-C13-O04
2	B	401	A1L46	C07-C09-C14-C15

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Mol	Chain	Res	Type	Atoms
2	B	401	A1L46	C13-C09-C14-C15
2	B	401	A1L46	N02-C09-C14-C15
2	B	401	A1L46	C14-C09-C13-O03
2	B	401	A1L46	C14-C09-C13-O04
2	A	401	A1L46	C13-C09-C14-C15
2	B	401	A1L46	C07-C09-C13-O03
2	A	401	A1L46	C14-C09-C13-O03
2	A	401	A1L46	C14-C15-C16-O06

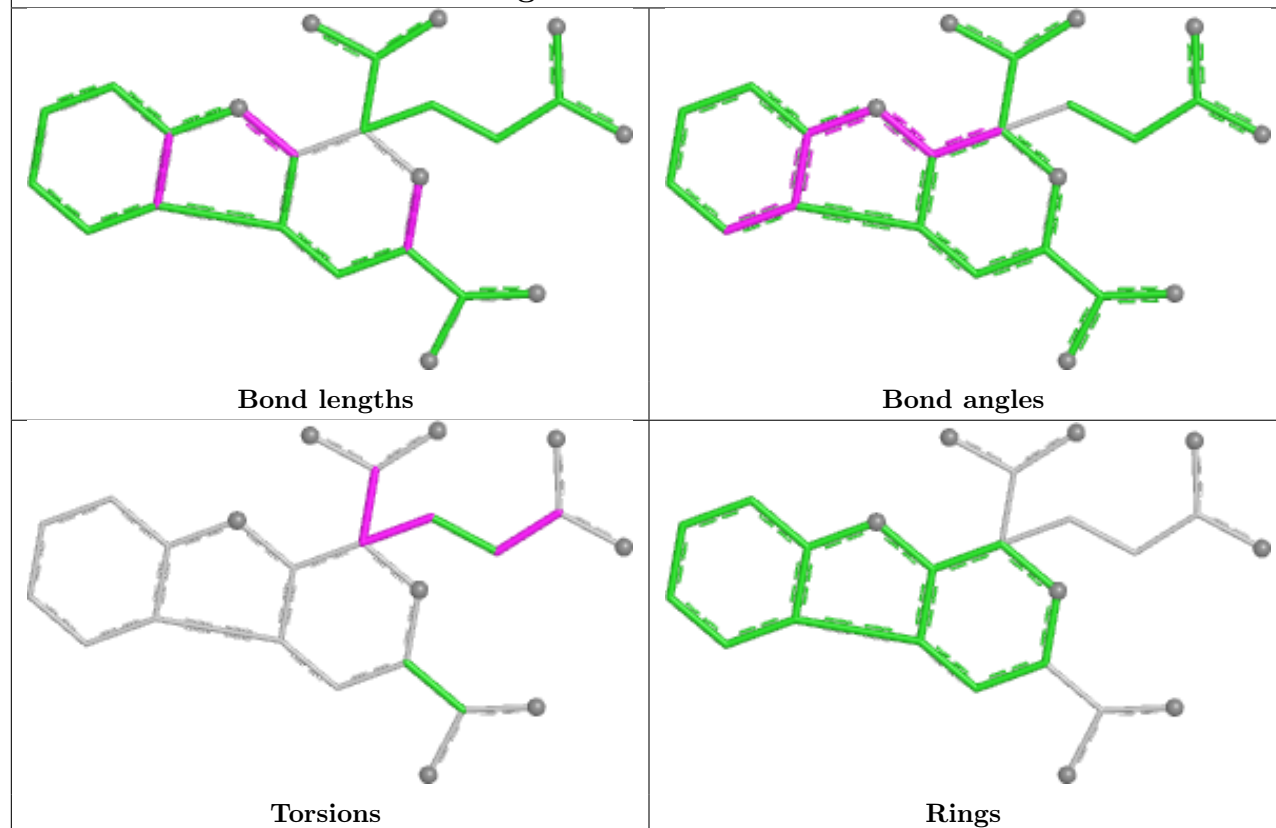
There are no ring outliers.

3 monomers are involved in 4 short contacts:

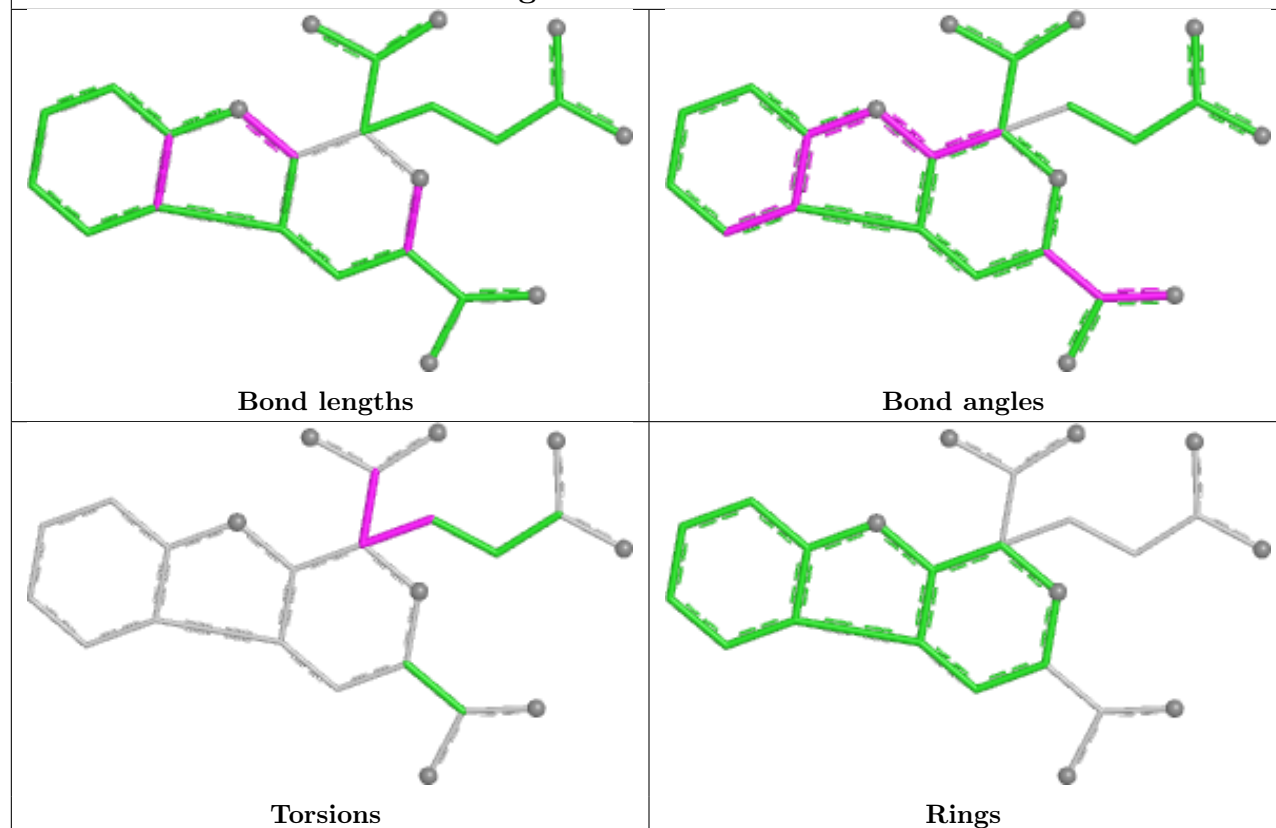
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	A1L46	1	0
3	B	402	GOL	2	0
3	A	402	GOL	1	0

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.

Ligand A1L46 A 401



Ligand A1L46 B 401



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	286/337 (84%)	0.29	10 (3%) 47 46	13, 26, 41, 65	1 (0%)
1	B	287/337 (85%)	0.51	14 (4%) 35 34	17, 29, 45, 59	0
All	All	573/674 (85%)	0.40	24 (4%) 40 40	13, 28, 44, 65	1 (0%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	149	ALA	5.8
1	B	35	GLY	5.4
1	B	304	PHE	4.2
1	A	148	TYR	3.8
1	B	276	LEU	3.6
1	B	33	LEU	3.3
1	B	271	PRO	3.3
1	B	273	THR	3.2
1	B	149	ALA	3.1
1	A	31	PRO	2.8
1	B	198	TYR	2.6
1	A	37	TYR	2.6
1	B	277	SER	2.6
1	B	247	ILE	2.5
1	A	3	ALA	2.5
1	B	300	TRP	2.5
1	A	33	LEU	2.5
1	A	300	TRP	2.5
1	B	272	THR	2.4
1	B	317	LEU	2.4
1	A	92	TYR	2.3
1	B	226	GLY	2.3
1	A	36	SER	2.2
1	A	179	ARG	2.2

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](#)

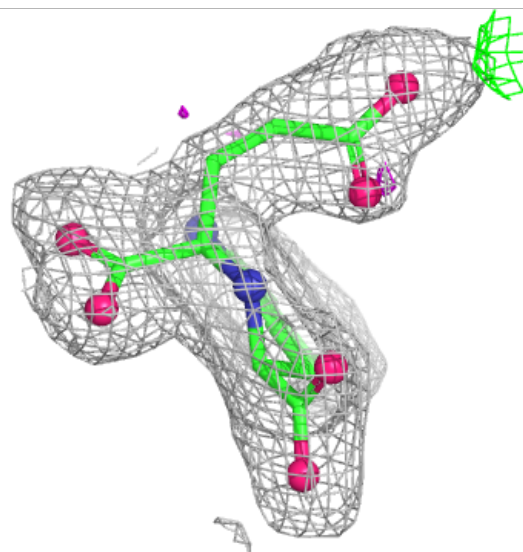
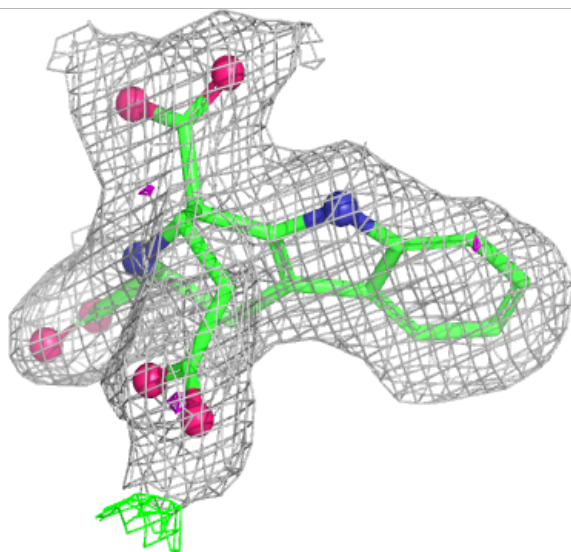
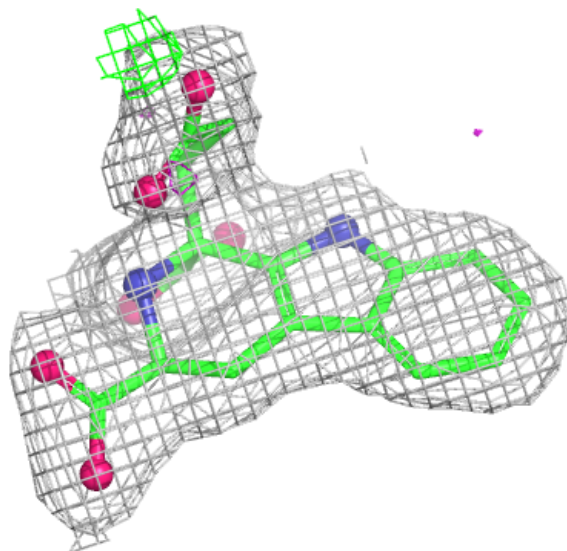
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GOL	A	403	6/6	0.81	0.17	18,33,34,38	0
3	GOL	B	402	6/6	0.83	0.13	32,33,43,47	0
3	GOL	A	402	6/6	0.85	0.14	30,33,35,36	0
2	A1L46	B	401	24/24	0.89	0.09	20,28,34,39	0
2	A1L46	A	401	24/24	0.91	0.09	21,26,32,38	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.

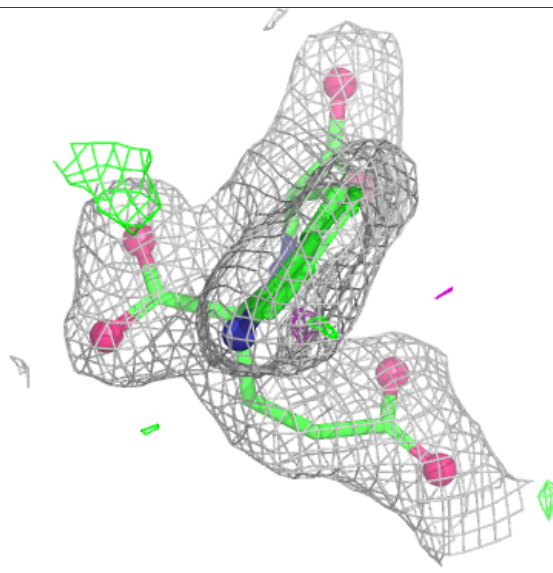
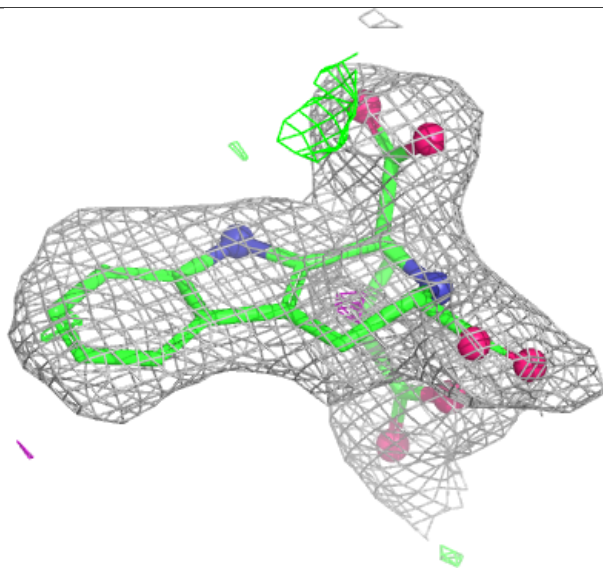
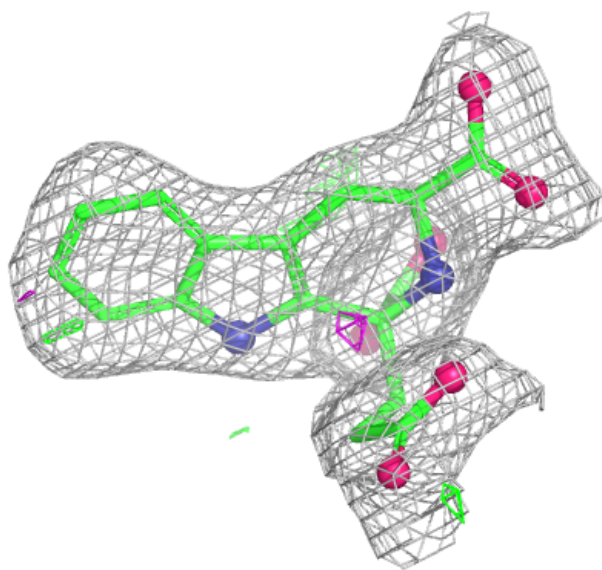
Electron density around A1L46 B 401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around A1L46 A 401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.