



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:11 PM UTC

PDB ID : 8VOF / pdb_00008vof
Title : GI targeted CpPI4K inhibitor
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Deposited on : 2024-01-15
Resolution : 3.00 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

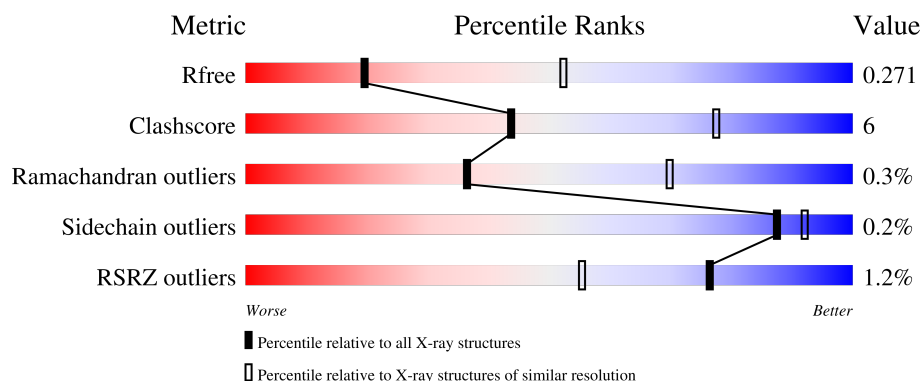
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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	529	 77% 12% 11%
2	B	216	 68% 11% 21%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4947 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 Isoform 2 of Phosphatidylinositol 4-kinase beta,Isoform 2 of Phosphatidylinositol 4-kinase beta,Phosphatidylinositol 4-kinase beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	473	Total	C	N	O	S	0	0	0
			3649	2346	610	669	24			

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	117	GLY	-	expression tag	UNP Q9UBF8
A	118	SER	-	expression tag	UNP Q9UBF8
A	119	HIS	-	expression tag	UNP Q9UBF8
A	120	MET	-	expression tag	UNP Q9UBF8
A	?	-	HIS	deletion	UNP Q9UBF8
A	?	-	ARG	deletion	UNP Q9UBF8
A	?	-	LYS	deletion	UNP Q9UBF8
A	?	-	ARG	deletion	UNP Q9UBF8
A	?	-	GLU	deletion	UNP Q9UBF8
A	?	-	LEU	deletion	UNP Q9UBF8
A	?	-	PRO	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	LEU	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	PRO	deletion	UNP Q9UBF8
A	?	-	ALA	deletion	UNP Q9UBF8
A	?	-	PRO	deletion	UNP Q9UBF8
A	?	-	ASP	deletion	UNP Q9UBF8
A	?	-	THR	deletion	UNP Q9UBF8
A	?	-	GLY	deletion	UNP Q9UBF8
A	?	-	LEU	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	PRO	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	LYS	deletion	UNP Q9UBF8
A	?	-	ARG	deletion	UNP Q9UBF8

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	THR	deletion	UNP Q9UBF8
A	?	-	HIS	deletion	UNP Q9UBF8
A	?	-	GLN	deletion	UNP Q9UBF8
A	?	-	ARG	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	LYS	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	ASP	deletion	UNP Q9UBF8
A	?	-	ALA	deletion	UNP Q9UBF8
A	?	-	THR	deletion	UNP Q9UBF8
A	?	-	ALA	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	ILE	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	LEU	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	?	-	SER	deletion	UNP Q9UBF8
A	294	ALA	SER	engineered mutation	UNP Q9UBF8
A	374	TYR	LEU	engineered mutation	UNP Q9UBF8

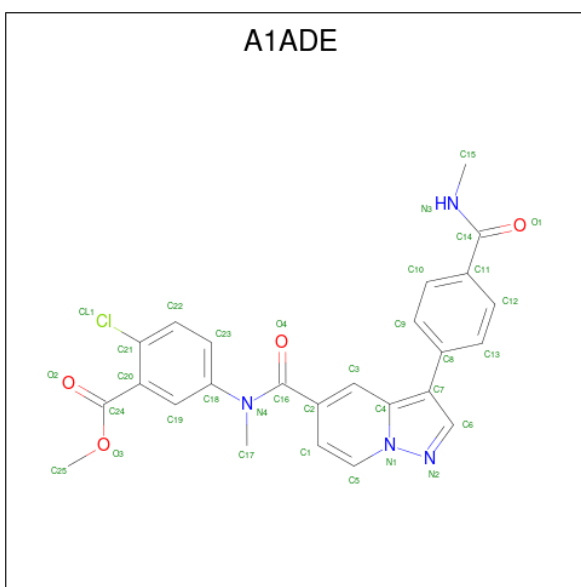
- Molecule 2 is a protein called Ras-related protein Rab-11A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	171	Total	C	N	O	S	0	0	0
			1225	775	211	238	1			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	70	LEU	GLN	engineered mutation	UNP P62491

- Molecule 3 is methyl 2-chloro-5-(methyl{(8R)-3-[4-(methylcarbamoyl)phenyl]pyrazolo[1,5-a]pyridine-5-carbonyl}amino)benzoate (CCD ID: A1ADE) (formula: C₂₅H₂₁ClN₄O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	
			34	25	1	4	4	

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	O S		
			5	4 1	0	0

- Molecule 5 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	B	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	6	Total O 6 6	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	48.57Å 105.22Å 186.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.63 – 3.00 50.63 – 3.00	Depositor EDS
% Data completeness (in resolution range)	98.9 (50.63-3.00) 98.9 (50.63-3.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.27 (at 3.01Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.225 , 0.270 0.231 , 0.271	Depositor DCC
R_{free} test set	965 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	85.2	Xtriage
Anisotropy	0.910	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 87.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4947	wwPDB-VP
Average B, all atoms (Å ²)	109.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.27% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SO4, GDP, A1ADE

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	0.28	0/3728	0.49	0/5068
2	B	0.20	0/1243	0.41	0/1696
All	All	0.26	0/4971	0.47	0/6764

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 [i](#)

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	3649	0	3506	42	0
2	B	1225	0	1114	18	0
3	A	34	0	0	0	0
4	A	5	0	0	0	0
5	B	28	0	12	1	0
6	A	6	0	0	0	0
All	All	4947	0	4632	58	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 6.

All (58) 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:A:615:LEU:HG	1:A:619:PHE:HE2	1.38	0.86
2:B:90:VAL:HG12	2:B:122:VAL:HB	1.70	0.74
1:A:656:ASP:H	1:A:691:SER:HB3	1.57	0.69
2:B:30:ARG:HE	2:B:158:SER:HB3	1.58	0.69
2:B:32:THR:HG21	2:B:49:ALA:HB1	1.76	0.67
1:A:348:LEU:O	1:A:402:ARG:NH1	2.29	0.66
1:A:615:LEU:HG	1:A:619:PHE:CE2	2.27	0.65
2:B:16:LEU:HD23	2:B:88:LEU:HB2	1.80	0.63
1:A:360:ASP:HB3	1:A:394:PHE:HB2	1.82	0.59
1:A:186:MET:HE3	1:A:190:VAL:HG21	1.88	0.55
1:A:218:ALA:O	1:A:555:ARG:NH1	2.39	0.55
1:A:137:LYS:C	1:A:139:PHE:N	2.65	0.54
1:A:639:VAL:HG13	1:A:714:TYR:HB2	1.89	0.54
1:A:584:LYS:HG3	1:A:596:GLU:OE1	2.10	0.52
1:A:578:LEU:HD13	1:A:644:GLY:HA2	1.92	0.51
1:A:624:GLY:HA3	1:A:628:THR:HG21	1.93	0.50
1:A:547:ILE:HB	1:A:595:ILE:HB	1.93	0.50
1:A:780:GLY:C	1:A:782:MET:H	2.19	0.50
1:A:367:PRO:HD2	1:A:385:TYR:O	2.12	0.50
1:A:137:LYS:O	1:A:139:PHE:N	2.45	0.49
1:A:628:THR:HG23	1:A:631:PHE:H	1.77	0.49
2:B:28:LEU:HD11	2:B:49:ALA:HB3	1.94	0.49
2:B:50:THR:OG1	2:B:61:LYS:HE3	2.12	0.49
1:A:695:LEU:H	1:A:781:SER:HB3	1.78	0.49
1:A:512:ASP:N	1:A:513:PRO:HD3	2.28	0.49
1:A:588:ILE:HG12	1:A:593:GLY:HA2	1.95	0.48
1:A:611:SER:HB2	1:A:613:LEU:HD12	1.95	0.48
1:A:639:VAL:HG22	1:A:703:MET:HG2	1.96	0.47
1:A:156:VAL:HG22	2:B:38:LEU:HB3	1.95	0.47
1:A:318:MET:HE3	1:A:588:ILE:HG13	1.97	0.47
1:A:355:PRO:HD2	1:A:586:LEU:HD22	1.96	0.47
2:B:88:LEU:HD23	2:B:120:MET:HB3	1.97	0.47
2:B:32:THR:HG21	2:B:49:ALA:CB	2.45	0.47
1:A:137:LYS:C	1:A:139:PHE:H	2.23	0.46
1:A:726:ARG:NH1	1:A:762:HIS:O	2.49	0.46
2:B:38:LEU:HA	5:B:301:GDP:O2'	2.16	0.46
2:B:23:GLY:HA3	2:B:124:ASN:ND2	2.31	0.46
1:A:141:ILE:HG21	1:A:171:ASP:HB3	1.97	0.45
1:A:526:VAL:HG22	1:A:543:LEU:HD23	1.98	0.45
2:B:81:TYR:HD2	2:B:112:HIS:HB2	1.81	0.45
1:A:127:GLN:N	2:B:39:GLU:H	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:22:VAL:HG12	2:B:92:ASP:HB2	1.99	0.45
1:A:615:LEU:O	1:A:619:PHE:CD2	2.70	0.44
2:B:29:SER:OG	2:B:30:ARG:N	2.51	0.43
1:A:130:LEU:HD12	1:A:130:LEU:HA	1.78	0.43
2:B:23:GLY:HA3	2:B:124:ASN:HD22	1.84	0.42
2:B:24:LYS:HE3	2:B:24:LYS:HB2	1.89	0.42
1:A:180:LEU:HD22	1:A:216:LEU:HD21	2.01	0.42
1:A:718:MET:HE2	1:A:718:MET:HB3	1.96	0.42
1:A:554:LEU:HD22	1:A:595:ILE:HD11	2.01	0.42
1:A:130:LEU:HD11	1:A:147:TYR:CE1	2.55	0.41
1:A:338:ILE:O	1:A:368:HIS:HB2	2.20	0.41
1:A:201:ARG:HD2	1:A:201:ARG:HA	1.95	0.41
1:A:547:ILE:HD11	1:A:597:TYR:HD1	1.85	0.41
1:A:549:LYS:HE2	1:A:549:LYS:HB3	1.92	0.41
2:B:13:LYS:H	2:B:85:VAL:HG12	1.85	0.41
1:A:405:GLU:HG2	1:A:534:PRO:HG3	2.02	0.40
1:A:679:LEU:HD12	1:A:747:CYS:HB2	2.04	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	463/529 (88%)	444 (96%)	17 (4%)	2 (0%)	30	65
2	B	167/216 (77%)	162 (97%)	5 (3%)	0	100	100
All	All	630/745 (85%)	606 (96%)	22 (4%)	2 (0%)	36	70

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	138	LEU

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Mol	Chain	Res	Type
1	A	781	SER

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	384/475 (81%)	383 (100%)	1 (0%)	86	91
2	B	112/189 (59%)	112 (100%)	0	100	100
All	All	496/664 (75%)	495 (100%)	1 (0%)	87	92

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

Mol	Chain	Res	Type
1	A	234	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	200	HIS
1	A	562	GLN
1	A	566	GLN
1	A	669	HIS
1	A	740	GLN
2	B	26	ASN
2	B	124	ASN

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 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	A1ADE	A	1101	-	37,37,37	1.10	1 (2%)	49,53,53	1.00	3 (6%)
5	GDP	B	301	-	29,30,30	1.12	2 (6%)	45,47,47	1.67	5 (11%)
4	SO4	A	1102	-	4,4,4	0.24	0	6,6,6	0.11	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	A1ADE	A	1101	-	-	3/28/28/28	0/4/4/4
5	GDP	B	301	-	-	4/16/32/32	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	301	GDP	C5-C4	2.91	1.46	1.38
3	A	1101	A1ADE	C20-C21	2.41	1.42	1.39
5	B	301	GDP	C6-N1	-2.29	1.34	1.38

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	301	GDP	C5-C4-N3	-5.54	119.57	128.39
5	B	301	GDP	C2-N3-C4	4.79	120.56	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	301	GDP	N9-C4-N3	3.94	133.82	125.95
5	B	301	GDP	C6-C5-N7	3.67	136.96	130.29
3	A	1101	A1ADE	C18-N4-C16	3.01	128.24	123.93
5	B	301	GDP	C4-C5-N7	-2.66	106.45	110.67
3	A	1101	A1ADE	C25-O3-C24	2.18	119.99	115.81
3	A	1101	A1ADE	C3-C2-C16	2.16	124.58	121.01

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1101	A1ADE	N4-C16-C2-C1
3	A	1101	A1ADE	N4-C16-C2-C3
3	A	1101	A1ADE	O4-C16-C2-C3
5	B	301	GDP	PA-O3A-PB-O3B
5	B	301	GDP	O4'-C4'-C5'-O5'
5	B	301	GDP	C3'-C4'-C5'-O5'
5	B	301	GDP	PA-O3A-PB-O1B

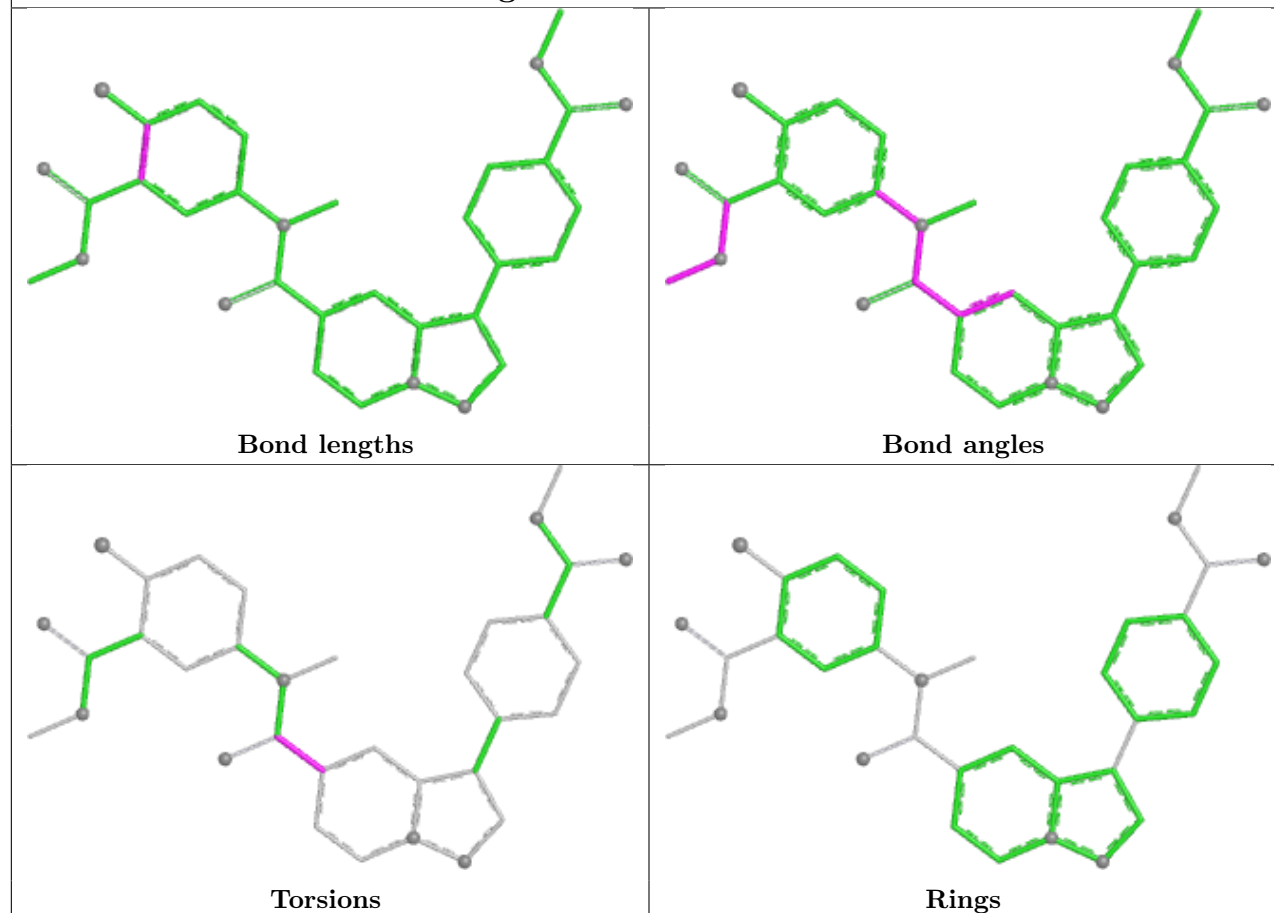
There are no ring outliers.

1 monomer is involved in 1 short contact:

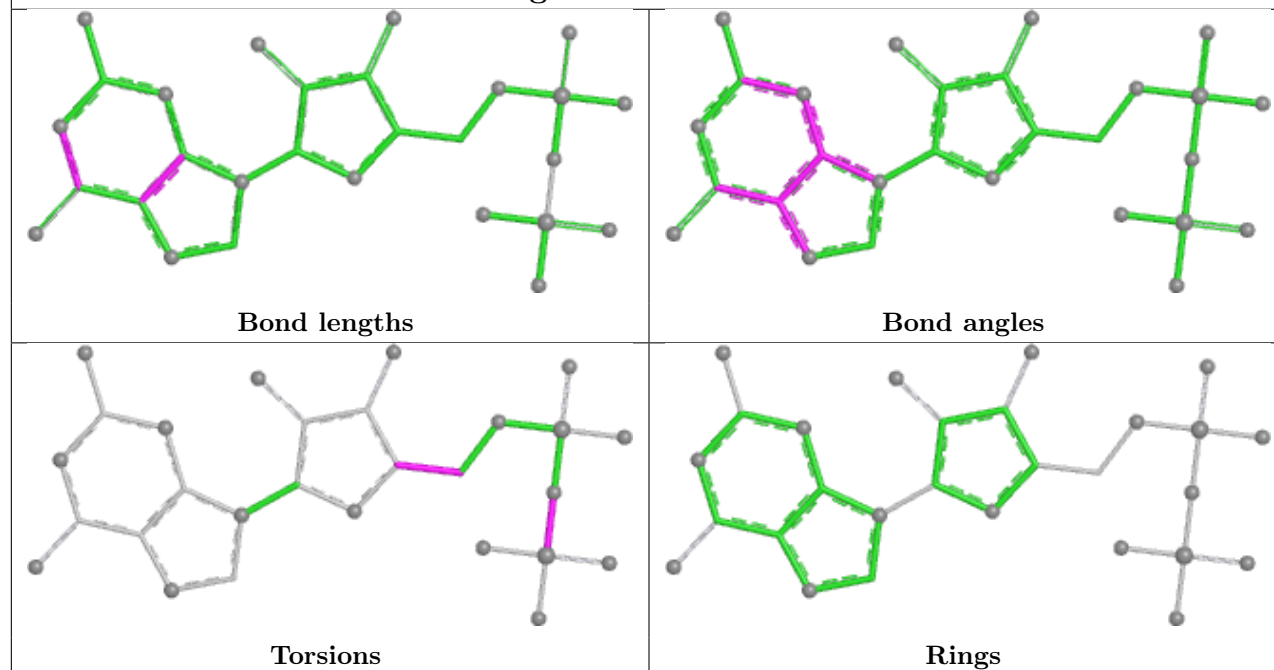
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	301	GDP	1	0

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 A1ADE A 1101



Ligand GDP B 301



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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	473/529 (89%)	-0.14	7 (1%)	72 49	65, 101, 144, 203	0
2	B	171/216 (79%)	0.15	1 (0%)	85 69	92, 128, 160, 189	0
All	All	644/745 (86%)	-0.06	8 (1%)	76 55	65, 109, 156, 203	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	619	PHE	4.0
1	A	127	GLN	3.3
1	A	230	HIS	3.1
1	A	695	LEU	3.0
2	B	116	ASN	2.5
1	A	206	ILE	2.3
1	A	749	HIS	2.2
1	A	510	PRO	2.1

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,

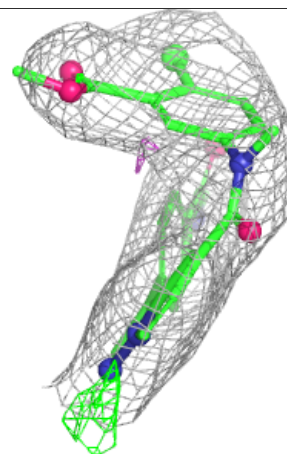
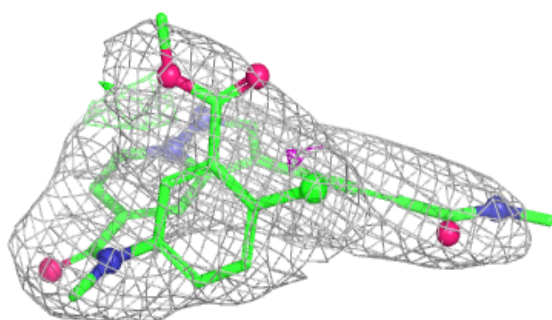
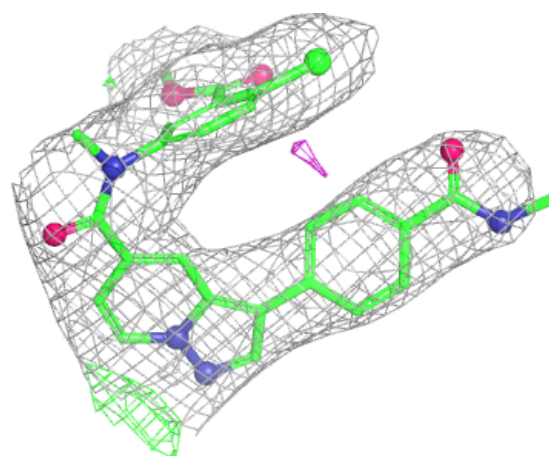
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

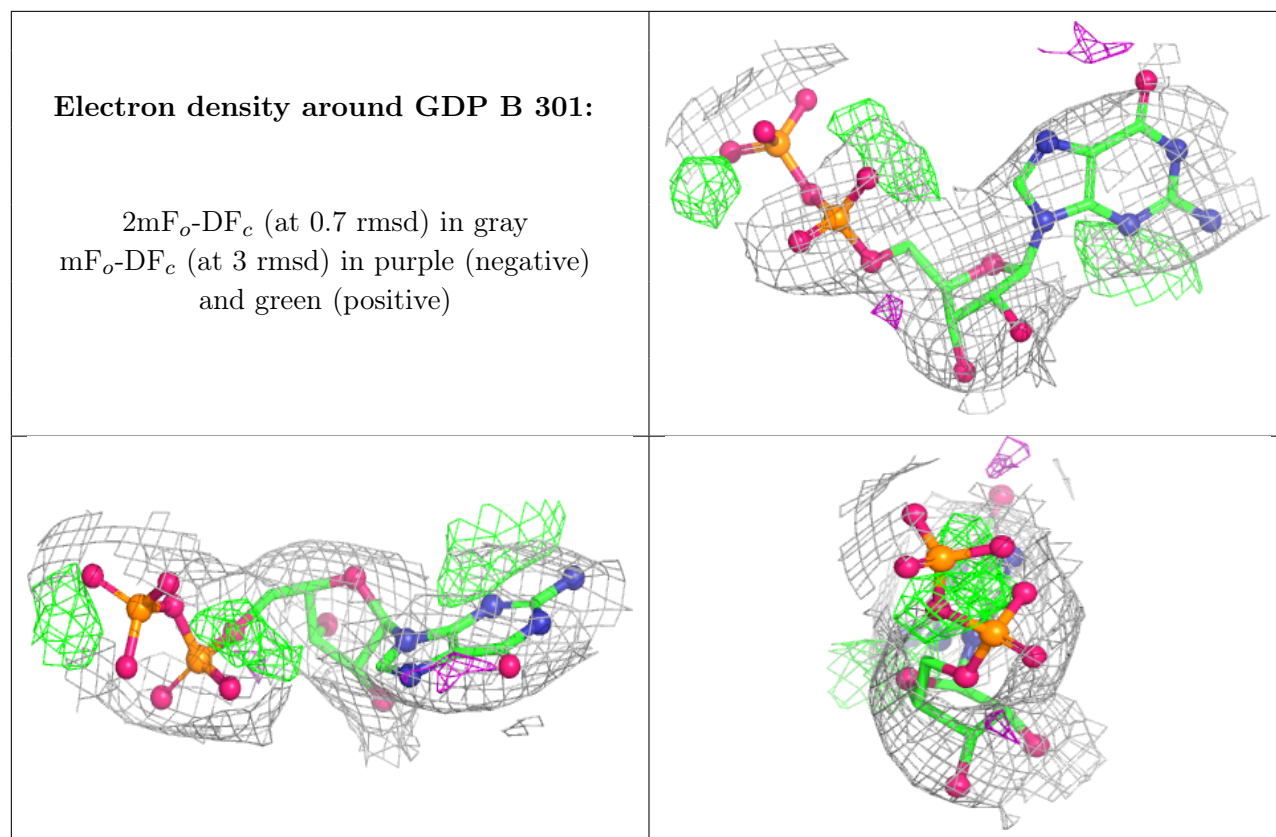
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	SO4	A	1102	5/5	0.80	0.15	100,111,125,133	0
3	A1ADE	A	1101	34/34	0.91	0.12	62,83,98,114	0
5	GDP	B	301	28/28	0.91	0.10	65,93,106,115	0

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 A1ADE A 1101:

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 [i](#)

There are no such residues in this entry.