



wwPDB X-ray Structure Validation Summary Report ⓘ

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PDB ID : 8ATN / pdb_00008atn
Title : Discovery of IRAK4 Inhibitor 38
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Deposited on : 2022-08-23
Resolution : 2.17 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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](#) ①) 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

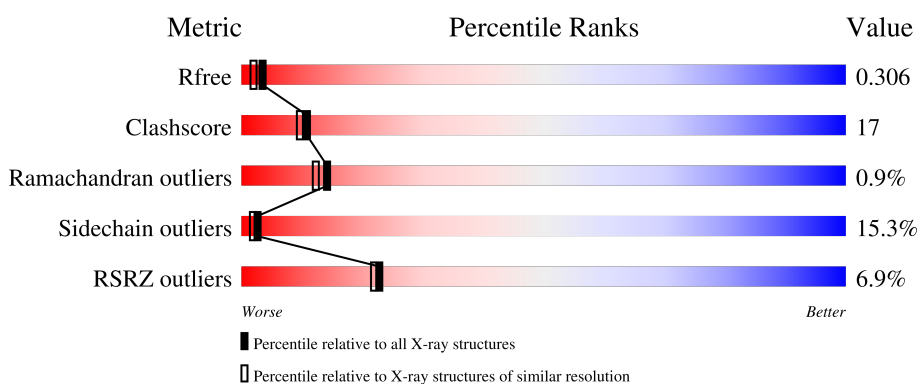
1 Overall quality at a glance

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	AAA	298	
1	BBB	298	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4545 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.

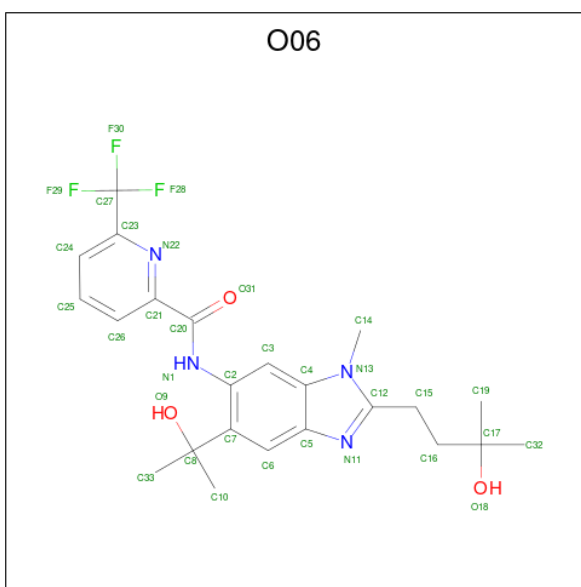
- Molecule 1 is a protein called Interleukin-1 receptor-associated kinase 4.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	AAA	282	Total	C	N	O	P	S	0	1	0
			2215	1393	372	433	2	15			
1	BBB	286	Total	C	N	O	P	S	0	0	0
			2241	1406	377	442	2	14			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	163	GLY	-	expression tag	UNP Q9NWZ3
AAA	164	SER	-	expression tag	UNP Q9NWZ3
AAA	400	ALA	LYS	engineered mutation	UNP Q9NWZ3
AAA	401	ALA	GLU	engineered mutation	UNP Q9NWZ3
AAA	402	ALA	GLU	engineered mutation	UNP Q9NWZ3
BBB	163	GLY	-	expression tag	UNP Q9NWZ3
BBB	164	SER	-	expression tag	UNP Q9NWZ3
BBB	400	ALA	LYS	engineered mutation	UNP Q9NWZ3
BBB	401	ALA	GLU	engineered mutation	UNP Q9NWZ3
BBB	402	ALA	GLU	engineered mutation	UNP Q9NWZ3

- Molecule 2 is {N}-[3-methyl-2-(3-methyl-3-oxidanyl-butyl)-6-(2-oxidanylpropan-2-yl)benzimidazol-5-yl]-6-(trifluoromethyl)pyridine-2-carboxamide (CCD ID: O06) (formula: C₂₃H₂₇F₃N₄O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	AAA	1	Total	C	F	N	O	0	0
			33	23	3	4	3		
2	BBB	1	Total	C	F	N	O	0	0
			33	23	3	4	3		

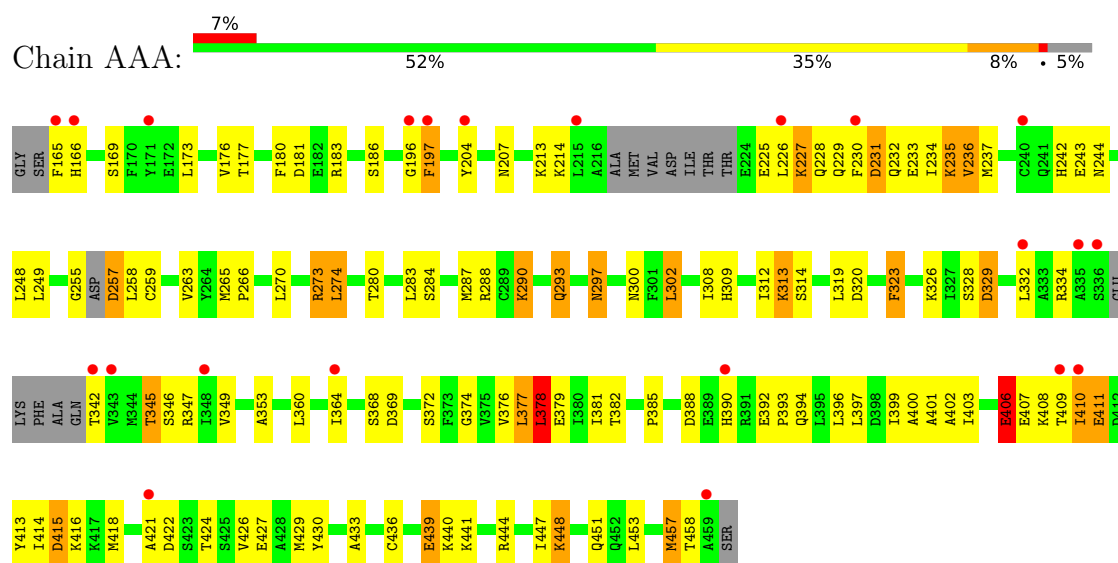
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	AAA	12	Total	O	0	0
			12	12		
3	BBB	11	Total	O	0	0
			11	11		

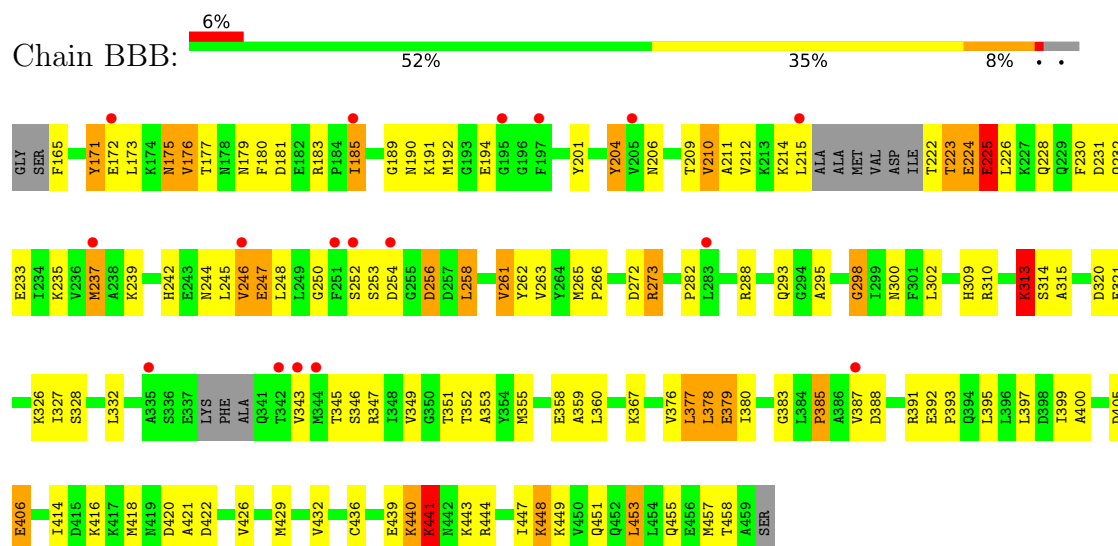
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Interleukin-1 receptor-associated kinase 4



- Molecule 1: Interleukin-1 receptor-associated kinase 4



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	88.19Å 118.90Å 140.47Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.88 – 2.17 49.88 – 2.17	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.88-2.17) 99.9 (49.88-2.17)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 2.18Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.238 , 0.306 0.244 , 0.306	Depositor DCC
R_{free} test set	1965 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	46.7	Xtriage
Anisotropy	1.204	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 70.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4545	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.38 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.7723e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: O06, TPO, SEP

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	AAA	1.45	23/2232 (1.0%)	1.58	18/3006 (0.6%)
1	BBB	1.35	14/2256 (0.6%)	1.54	16/3042 (0.5%)
All	All	1.40	37/4488 (0.8%)	1.56	34/6048 (0.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AAA	0	2

The worst 5 of 37 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AAA	374	GLY	C-O	12.63	1.40	1.23
1	AAA	376	VAL	C-O	11.58	1.37	1.24
1	AAA	374	GLY	C-N	10.79	1.47	1.33
1	BBB	206	ASN	C-O	10.13	1.37	1.23
1	AAA	396	LEU	C-O	9.34	1.35	1.24

The worst 5 of 34 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	284	SER	CA-C-O	-9.92	110.82	122.03
1	AAA	284	SER	O-C-N	8.58	132.80	122.68
1	AAA	376	VAL	O-C-N	6.96	128.90	121.94
1	AAA	374	GLY	O-C-N	6.87	129.53	122.24
1	AAA	369	ASP	CA-CB-CG	6.43	119.03	112.60

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AAA	406	GLU	Mainchain
1	AAA	439	GLU	Mainchain

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	AAA	2215	0	2187	78	2
1	BBB	2241	0	2202	70	2
2	AAA	33	0	0	0	0
2	BBB	33	0	0	0	0
3	AAA	12	0	0	1	0
3	BBB	11	0	0	0	0
All	All	4545	0	4389	148	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 17.

The worst 5 of 148 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:BBB:177:THR:HG23	1:BBB:180:PHE:H	1.27	0.98
1:AAA:288:ARG:HD2	1:AAA:418:MET:HE1	1.59	0.84
1:AAA:288:ARG:CZ	1:AAA:418:MET:HE3	2.12	0.80
1:AAA:293:GLN:HE22	1:AAA:458:THR:HG21	1.49	0.78
1:AAA:265:MET:HE3	1:AAA:319:LEU:C	2.14	0.72

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)
1:AAA:390:HIS:NE2	1:BBB:392:GLU:O[3_555]	1.33	0.87
1:AAA:390:HIS:CD2	1:BBB:392:GLU:O[3_555]	1.69	0.51

5.3 Torsion angles [i](#)

5.3.1 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 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	AAA	273/298 (92%)	253 (93%)	19 (7%)	1 (0%)	30	31
1	BBB	278/298 (93%)	254 (91%)	20 (7%)	4 (1%)	9	6
All	All	551/596 (92%)	507 (92%)	39 (7%)	5 (1%)	14	12

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	BBB	176	VAL
1	BBB	258	LEU
1	BBB	441	LYS
1	BBB	247	GLU
1	AAA	329	ASP

5.3.2 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 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	AAA	241/253 (95%)	207 (86%)	34 (14%)	3	2
1	BBB	244/253 (96%)	204 (84%)	40 (16%)	2	1
All	All	485/506 (96%)	411 (85%)	74 (15%)	3	2

5 of 74 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	BBB	313	LYS

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Mol	Chain	Res	Type
1	BBB	448	LYS
1	BBB	343	VAL
1	BBB	397	LEU
1	AAA	377	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

4 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	SEP	AAA	346	1	8,9,10	0.57	0	7,12,14	1.26	1 (14%)
1	TPO	BBB	345	1	8,10,11	0.97	1 (12%)	10,14,16	0.85	0
1	TPO	AAA	345	1	8,10,11	0.98	1 (12%)	10,14,16	0.88	1 (10%)
1	SEP	BBB	346	1	8,9,10	0.72	0	7,12,14	1.20	1 (14%)

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
1	SEP	AAA	346	1	-	2/6/8/10	-
1	TPO	BBB	345	1	-	3/9/11/13	-
1	TPO	AAA	345	1	-	2/9/11/13	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SEP	BBB	346	1	-	3/6/8/10	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BBB	345	TPO	P-OG1	2.41	1.63	1.59
1	AAA	345	TPO	P-OG1	2.22	1.63	1.59

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	346	SEP	OG-CB-CA	2.99	111.06	108.14
1	BBB	346	SEP	OG-CB-CA	2.84	110.91	108.14
1	AAA	345	TPO	O-C-CA	-2.08	119.42	124.77

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	AAA	345	TPO	N-CA-CB-OG1
1	AAA	346	SEP	N-CA-CB-OG
1	AAA	346	SEP	C-CA-CB-OG
1	BBB	345	TPO	N-CA-CB-OG1
1	BBB	345	TPO	O-C-CA-CB

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	AAA	345	TPO	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	$\# Z > 2$
2	O06	AAA	1001	-	35,35,35	1.79	6 (17%)	51,55,55	1.77	12 (23%)
2	O06	BBB	1001	-	35,35,35	2.00	12 (34%)	51,55,55	2.09	13 (25%)

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	O06	AAA	1001	-	-	5/26/26/26	0/3/3/3
2	O06	BBB	1001	-	-	2/26/26/26	0/3/3/3

The worst 5 of 18 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AAA	1001	O06	C14-N13	7.26	1.58	1.46
2	BBB	1001	O06	C14-N13	4.31	1.53	1.46
2	BBB	1001	O06	C27-C23	4.27	1.58	1.50
2	AAA	1001	O06	C4-N13	-3.51	1.33	1.39
2	BBB	1001	O06	C10-C8	3.39	1.56	1.52

The worst 5 of 25 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BBB	1001	O06	C16-C15-C12	-6.36	101.83	113.36
2	AAA	1001	O06	F29-C27-C23	-5.19	103.29	112.43
2	BBB	1001	O06	N13-C12-N11	-5.08	108.69	112.96
2	BBB	1001	O06	C21-N22-C23	4.57	124.80	118.78
2	AAA	1001	O06	C16-C15-C12	-4.36	105.46	113.36

There are no chirality outliers.

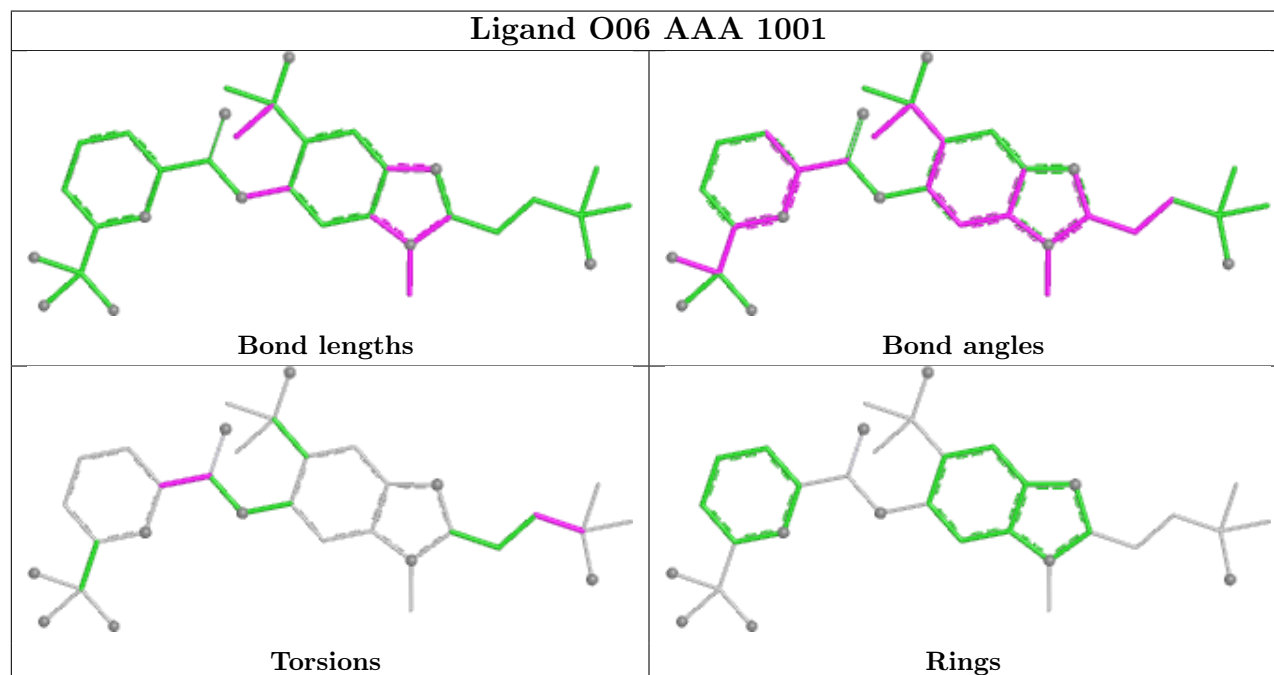
5 of 7 torsion outliers are listed below:

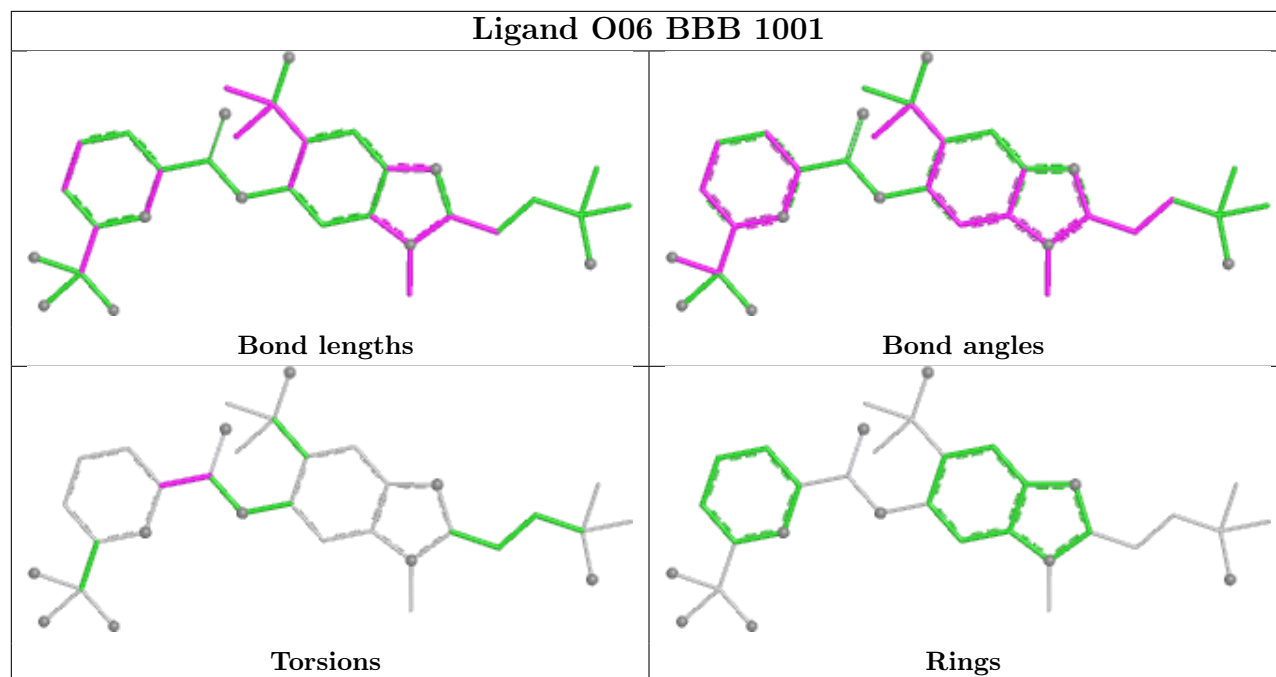
Mol	Chain	Res	Type	Atoms
2	AAA	1001	O06	C15-C16-C17-C19
2	BBB	1001	O06	N1-C20-C21-C26
2	AAA	1001	O06	C15-C16-C17-O18
2	AAA	1001	O06	O31-C20-C21-C26
2	AAA	1001	O06	O31-C20-C21-N22

There are no ring outliers.

No monomer is involved in short contacts.

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 [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	AAA	280/298 (93%)	0.81	22 (7%) 18 18	37, 84, 126, 168	1 (0%)
1	BBB	284/298 (95%)	0.83	17 (5%) 27 27	48, 72, 117, 144	0
All	All	564/596 (94%)	0.82	39 (6%) 23 22	37, 78, 124, 168	1 (0%)

The worst 5 of 39 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	197	PHE	3.9
1	AAA	165	PHE	3.8
1	AAA	343	VAL	3.7
1	BBB	185	ILE	3.7
1	BBB	343	VAL	3.4

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	SEP	AAA	346	10/11	0.76	0.10	109,131,162,164	0
1	SEP	BBB	346	10/11	0.77	0.11	93,117,153,158	0
1	TPO	AAA	345	11/12	0.87	0.14	107,120,152,157	0
1	TPO	BBB	345	11/12	0.95	0.08	82,95,101,104	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

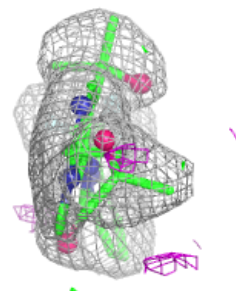
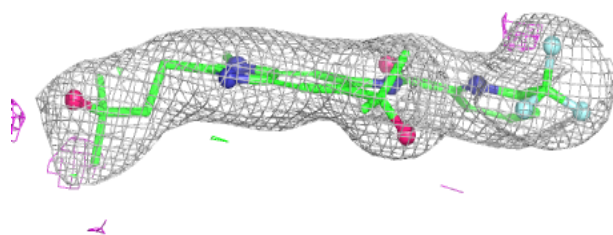
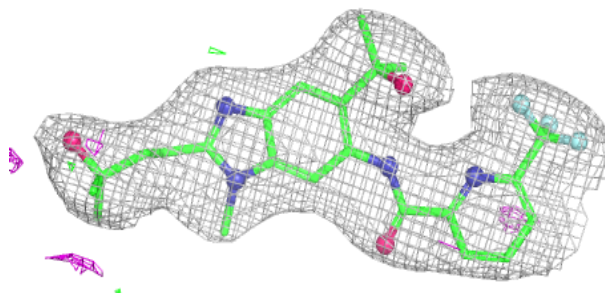
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists 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	O06	AAA	1001	33/33	0.94	0.09	63,70,75,76	0
2	O06	BBB	1001	33/33	0.95	0.09	51,64,74,79	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.

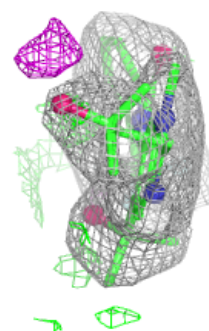
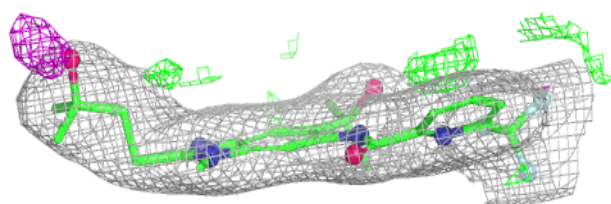
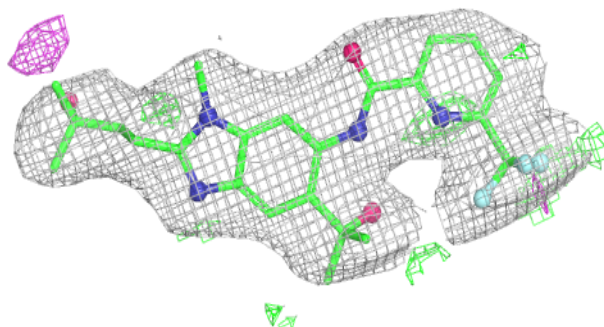
Electron density around O06 AAA 1001:

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 O06 BBB 1001:

$2mF_o-DF_c$ (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.