W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report ⓘ

Dec 17, 2023 – 04:23 PM EST

PDB ID	:	4TPP
Title	:	2-(3-alkoxy-1-azetidinyl) quinolines as novel PDE10A inhibitors
Authors	:	Chmait, S.
Deposited on	:	2014-06-09
Resolution	:	2.65 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 ⓘ) were used in the production of this report:

|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 2.65 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	Percentile Ranks	Value
Rfree		0.184
Clashscore		8
Ramachandran outliers		0.2%
Sidechain outliers		1.4%
RSRZ outliers		0

Worse — *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution
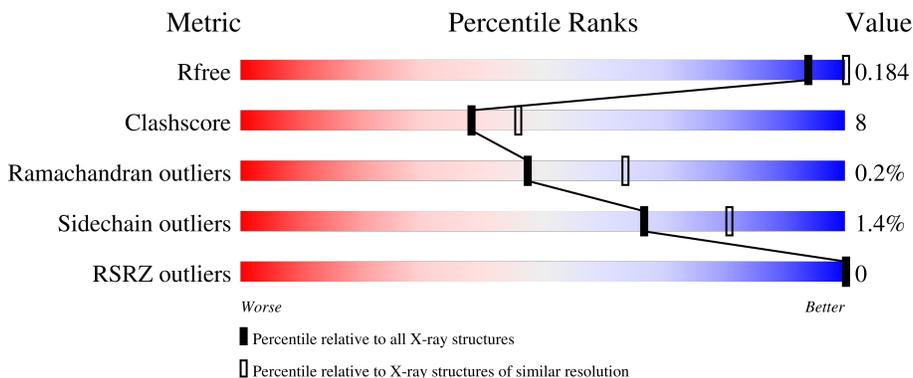
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1332 (2.68-2.64)
Clashscore	141614	1374 (2.68-2.64)
Ramachandran outliers	138981	1349 (2.68-2.64)
Sidechain outliers	138945	1349 (2.68-2.64)
RSRZ outliers	127900	1318 (2.68-2.64)

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 <=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	351	69% 17% • 13%
1	B	351	77% 10% 13%

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
3	SO4	A	1003	-	-	X	-

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5198 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 cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	305	Total 2475	C 1583	N 423	O 447	S 22	0	0	0
1	B	307	Total 2488	C 1590	N 425	O 451	S 22	0	0	0

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	429	MET	-	initiating methionine	UNP Q9Y233
A	430	LYS	-	expression tag	UNP Q9Y233
A	431	HIS	-	expression tag	UNP Q9Y233
A	432	HIS	-	expression tag	UNP Q9Y233
A	433	HIS	-	expression tag	UNP Q9Y233
A	434	HIS	-	expression tag	UNP Q9Y233
A	435	HIS	-	expression tag	UNP Q9Y233
A	436	HIS	-	expression tag	UNP Q9Y233
A	437	HIS	-	expression tag	UNP Q9Y233
A	438	ASP	-	expression tag	UNP Q9Y233
A	439	GLU	-	expression tag	UNP Q9Y233
A	440	VAL	-	expression tag	UNP Q9Y233
A	441	ASP	-	expression tag	UNP Q9Y233
B	429	MET	-	initiating methionine	UNP Q9Y233
B	430	LYS	-	expression tag	UNP Q9Y233
B	431	HIS	-	expression tag	UNP Q9Y233
B	432	HIS	-	expression tag	UNP Q9Y233
B	433	HIS	-	expression tag	UNP Q9Y233
B	434	HIS	-	expression tag	UNP Q9Y233
B	435	HIS	-	expression tag	UNP Q9Y233
B	436	HIS	-	expression tag	UNP Q9Y233
B	437	HIS	-	expression tag	UNP Q9Y233
B	438	ASP	-	expression tag	UNP Q9Y233
B	439	GLU	-	expression tag	UNP Q9Y233

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Chain	Residue	Modelled	Actual	Comment	Reference
B	440	VAL	-	expression tag	UNP Q9Y233
B	441	ASP	-	expression tag	UNP Q9Y233

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total 2	Zn 2	0	0
2	B	2	Total 2	Zn 2	0	0

• Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O_4S).
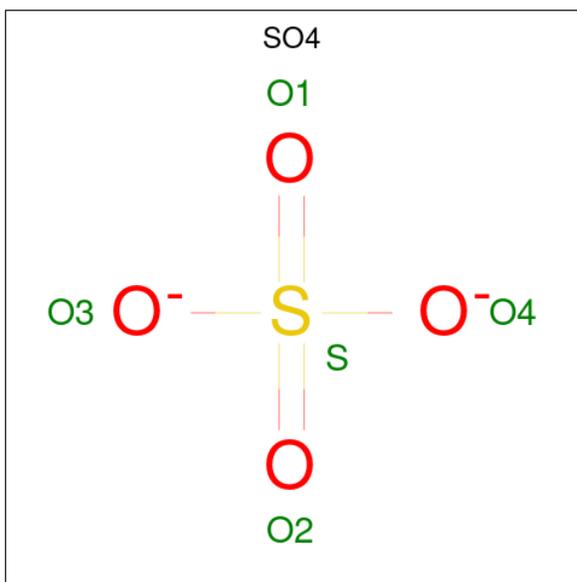
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0
3	A	1	Total 5	O 4	S 1	0	0

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

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).
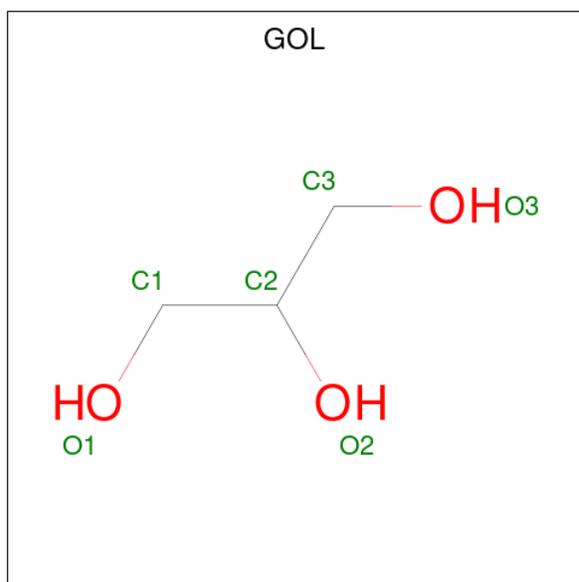
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 6	C 3	O 3	0	0

- Molecule 5 is 1-[4-(3-{[1-(quinolin-2-yl)azetidin-3-yl]oxy}quinoxalin-2-yl)piperidin-1-yl]etha none (three-letter code: 35D) (formula: $C_{27}H_{27}N_5O_2$).

35D

C01 C02 O03 N04 C09 C05 C08 C06 C07 C24 C21 O20 C10 C19 N11 C32 N34 N23 C12 C31 C33 C25 N18 C17 C13 C28 C22 C30 C26 C16 C14 C29 C27 C15
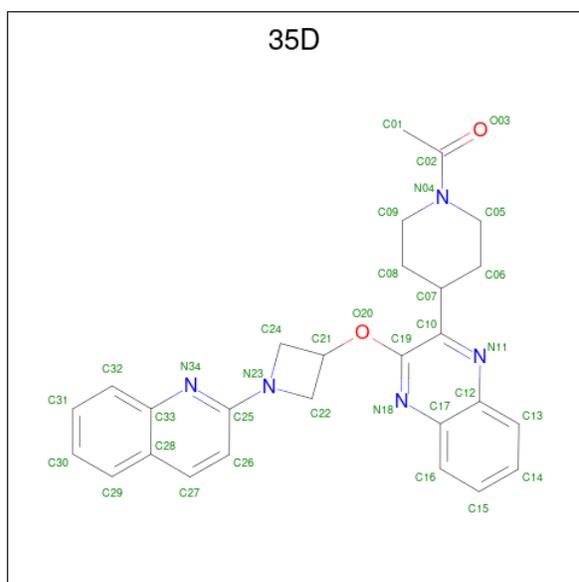
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			34	27	5	2		
5	B	1	Total	C	N	O	0	0
			34	27	5	2		

• Molecule 6 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	55	Total	O	0	0
			55	55		
6	B	47	Total	O	0	0
			47	47		

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: cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
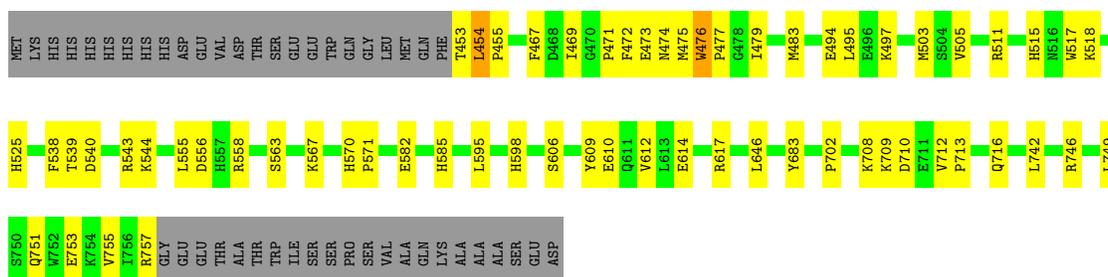
• Molecule 1: cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A
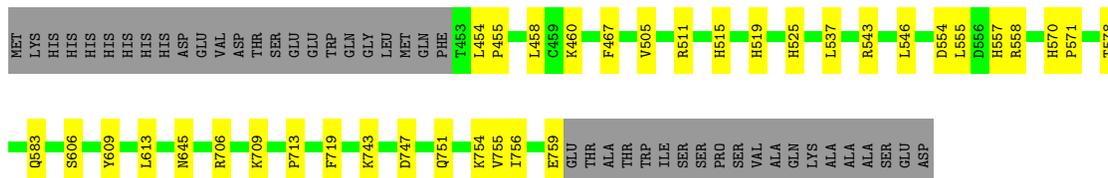
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	F 2 3	Depositor
Cell constants a, b, c, α, β, γ	253.22Å 253.22Å 253.22Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.73 – 2.65 48.73 – 2.65	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.73-2.65) 96.8 (48.73-2.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	2.91 (at 2.65Å)	Xtriage
Refinement program	REFMAC, PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.167 , 0.198 0.162 , 0.184	Depositor DCC
R_{free} test set	1869 reflections (4.80%)	wwPDB-VP
Wilson B-factor (Å^2)	52.5	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 25.6	EDS
L-test for twinning [2]	$<|L|> = 0.40, <L^2> = 0.23$	Xtriage
Estimated twinning fraction	0.434 for k,h,-l	Xtriage
Reported twinning fraction	0.440 for k,h,-l	Depositor
Outliers	0 of 38924 reflections	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5198	wwPDB-VP
Average B, all atoms (Å^2)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.37% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $<|L|>$, $<L^2>$ 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: SO4, GOL, ZN, 35D

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	0.34	2/2536 (0.1%)	0.47	2/3435 (0.1%)
1	B	0.33	0/2549	0.47	0/3452
All	All	0.34	2/5085 (0.0%)	0.47	2/6887 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	455	PRO	N-CD	5.27	1.55	1.47
1	A	477	PRO	N-CD	5.18	1.55	1.47

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	476	TRP	C-N-CD	5.61	140.18	128.40
1	A	454	LEU	C-N-CD	5.60	140.17	128.40

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	2475	0	2452	52	0
1	B	2488	0	2461	24	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	35	0	0	2	0
3	B	20	0	0	0	1
4	A	6	0	8	0	0
5	A	34	0	27	2	0
5	B	34	0	27	3	0
6	A	55	0	0	2	0
6	B	47	0	0	3	0
All	All	5198	0	4975	76	1

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 8.

The worst 5 of 76 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:540:ASP:CG	1:A:543:ARG:HH11	1.34	1.30
1:A:540:ASP:CG	1:A:543:ARG:NH1	1.83	1.30
1:B:515:HIS:CE1	6:B:922:HOH:O	1.79	1.28
1:A:540:ASP:O	1:A:544:LYS:HG2	1.53	1.08
1:A:540:ASP:OD1	1:A:543:ARG:NH1	1.90	1.04

All (1) 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:B:606:SER:OG	3:B:803:SO4:O3[47_455]	2.17	0.03

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	303/351 (86%)	293 (97%)	9 (3%)	1 (0%)	41	56
1	B	305/351 (87%)	291 (95%)	14 (5%)	0	100	100
All	All	608/702 (87%)	584 (96%)	23 (4%)	1 (0%)	47	64

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	471	PRO

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	276/315 (88%)	272 (99%)	4 (1%)	67	81
1	B	277/315 (88%)	273 (99%)	4 (1%)	67	81
All	All	553/630 (88%)	545 (99%)	8 (1%)	67	81

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	558	ARG
1	B	543	ARG
1	B	460	LYS
1	A	757	ARG
1	B	511	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	474	ASN
1	A	640	GLN
1	A	716	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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 18 ligands modelled in this entry, 4 are monoatomic - leaving 14 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	$\#|Z| > 2$
3	SO4	A	1004	-	4,4,4	0.15	0	6,6,6	0.08	0
5	35D	B	807	-	36,39,39	1.88	10 (27%)	48,56,56	1.87	7 (14%)
3	SO4	A	1005	-	4,4,4	0.13	0	6,6,6	0.07	0
3	SO4	A	1008	-	4,4,4	0.14	0	6,6,6	0.07	0
3	SO4	B	804	-	4,4,4	0.14	0	6,6,6	0.09	0
3	SO4	B	806	-	4,4,4	0.14	0	6,6,6	0.07	0
3	SO4	B	803	-	4,4,4	0.14	0	6,6,6	0.06	0
4	GOL	A	1010	-	5,5,5	0.37	0	5,5,5	0.34	0
3	SO4	B	805	-	4,4,4	0.12	0	6,6,6	0.08	0
3	SO4	A	1006	-	4,4,4	0.32	0	6,6,6	0.05	0
3	SO4	A	1003	-	4,4,4	0.16	0	6,6,6	0.11	0
3	SO4	A	1007	-	4,4,4	0.14	0	6,6,6	0.07	0
5	35D	A	1011	-	36,39,39	1.90	10 (27%)	48,56,56	1.80	5 (10%)
3	SO4	A	1009	-	4,4,4	0.32	0	6,6,6	0.05	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
4	GOL	A	1010	-	-	0/4/4/4	-
5	35D	A	1011	-	-	0/12/34/34	0/6/6/6
5	35D	B	807	-	-	3/12/34/34	0/6/6/6

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	1011	35D	C10-N11	4.07	1.37	1.31
5	B	807	35D	C10-N11	3.99	1.37	1.31
5	A	1011	35D	C17-N18	3.75	1.43	1.37
5	B	807	35D	C17-N18	3.37	1.43	1.37
5	A	1011	35D	C25-N23	3.30	1.44	1.37

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	1011	35D	C22-N23-C25	8.73	158.22	126.35
5	B	807	35D	C22-N23-C25	8.65	157.93	126.35
5	B	807	35D	C19-O20-C21	-4.69	111.81	118.56
5	B	807	35D	C24-N23-C25	-4.44	110.15	126.35
5	A	1011	35D	C24-N23-C25	-4.11	111.34	126.35

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	807	35D	C10-C19-O20-C21
5	B	807	35D	N18-C19-O20-C21
5	B	807	35D	C08-C07-C10-C19

There are no ring outliers.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	807	35D	3	0
3	B	803	SO4	0	1
3	A	1003	SO4	2	0
5	A	1011	35D	2	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 then 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 35D B 807

Bond lengths

Bond angles

Torsions

Rings

Ligand 35D A 1011

Bond lengths

Bond angles

Torsions

Rings
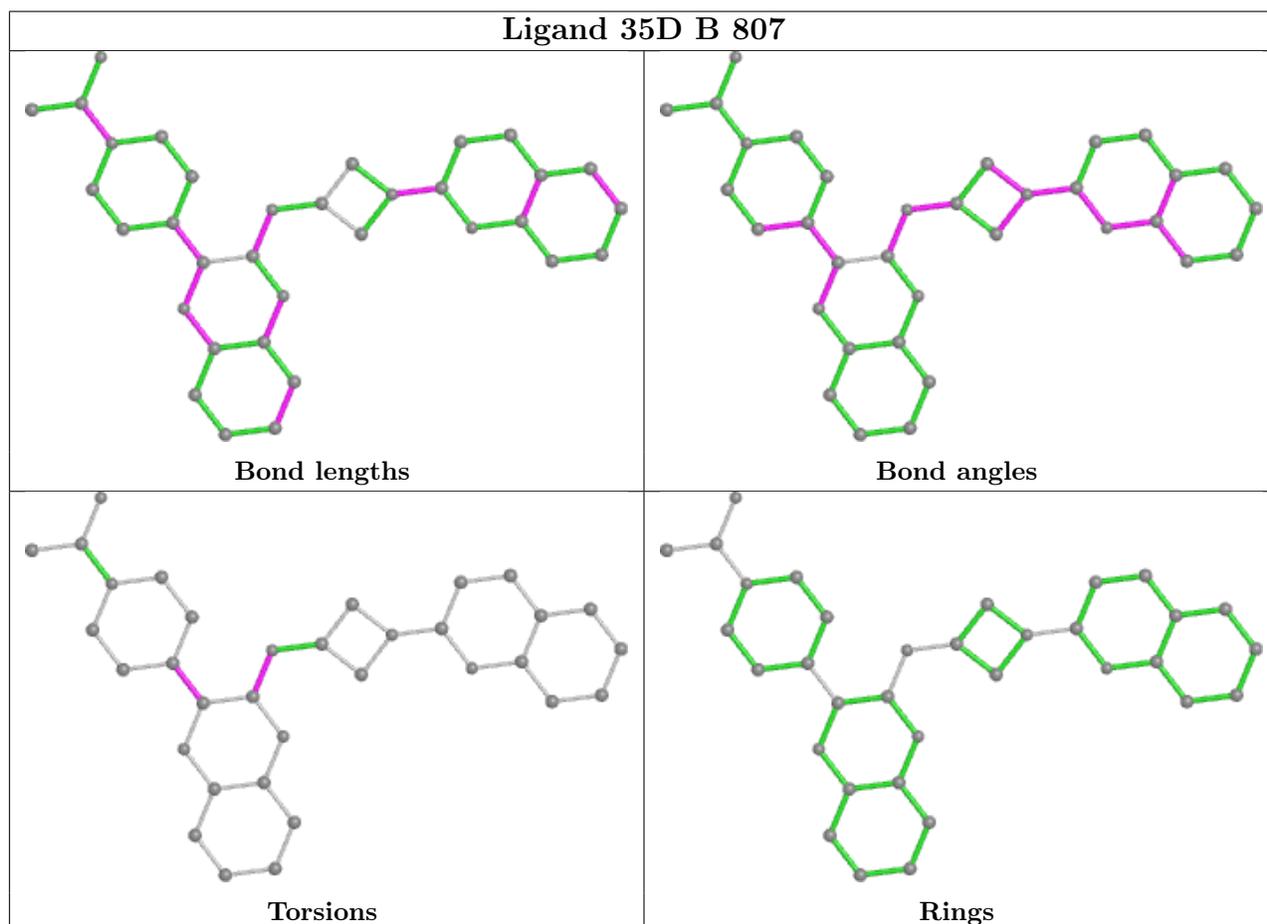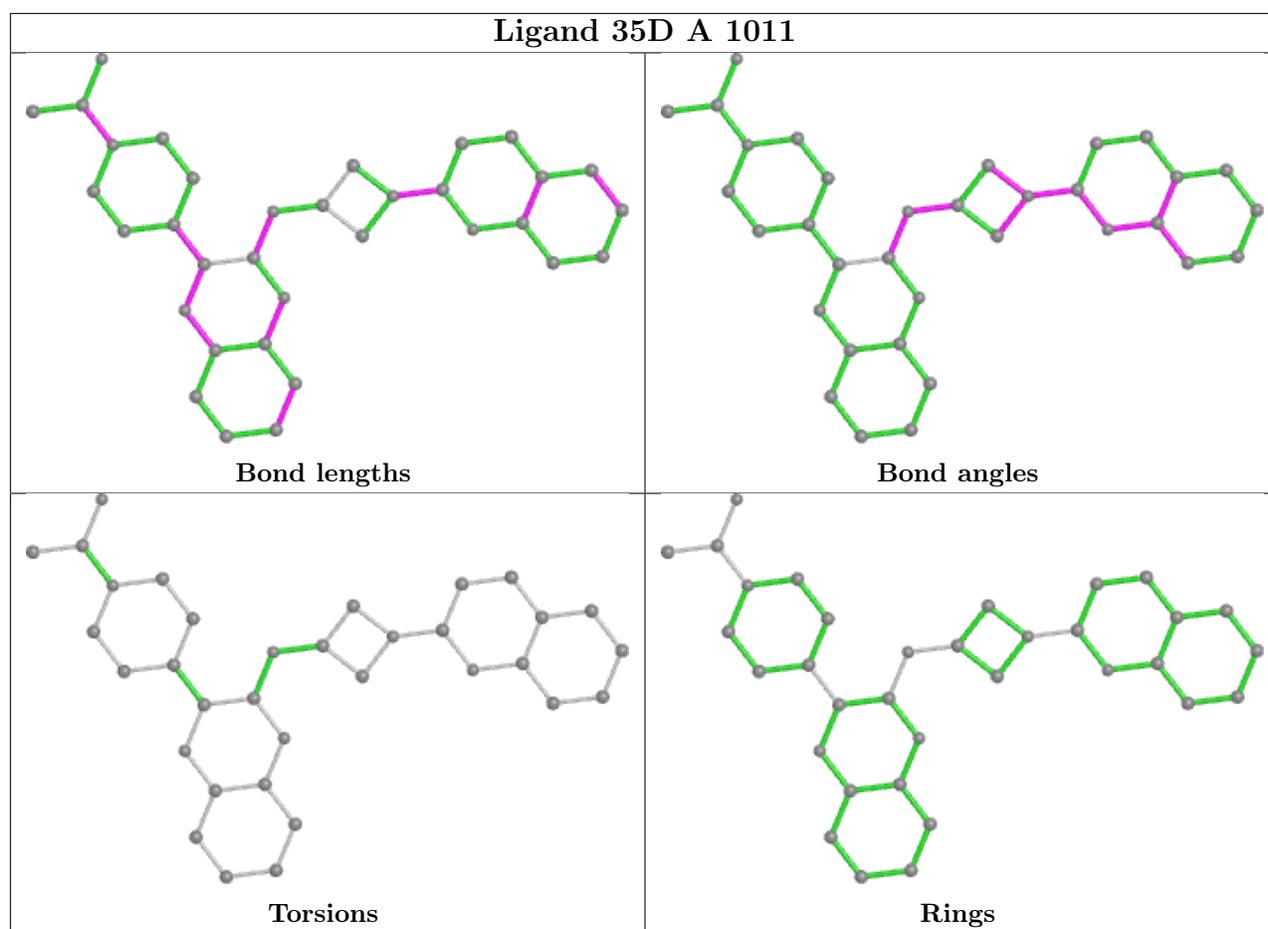
5.7 Other polymers ⓘ

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	305/351 (86%)	0.09	0	100	100	39, 53, 73, 97	0
1	B	307/351 (87%)	0.06	0	100	100	35, 52, 70, 98	0
All	All	612/702 (87%)	0.08	0	100	100	35, 52, 72, 98	0

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates ⓘ

There are no monosaccharides 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
3	SO4	A	1009	5/5	0.87	0.34	98,98,118,123	0
4	GOL	A	1010	6/6	0.88	0.19	74,81,84,85	0
3	SO4	A	1008	5/5	0.89	0.24	92,96,100,127	0
3	SO4	A	1007	5/5	0.90	0.23	99,102,127,138	0
3	SO4	A	1003	5/5	0.90	0.17	69,80,88,98	0
3	SO4	A	1006	5/5	0.92	0.28	68,73,89,102	0
3	SO4	B	804	5/5	0.93	0.23	81,91,108,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	SO4	B	806	5/5	0.94	0.45	85,88,89,97	0
3	SO4	A	1005	5/5	0.95	0.40	87,91,94,98	0
3	SO4	A	1004	5/5	0.96	0.15	61,65,75,82	0
3	SO4	B	805	5/5	0.97	0.12	67,75,77,92	0
5	35D	A	1011	34/34	0.97	0.23	44,59,75,80	0
5	35D	B	807	34/34	0.97	0.21	44,54,67,73	0
2	ZN	B	801	1/1	0.98	0.23	48,48,48,48	0
3	SO4	B	803	5/5	0.98	0.31	52,54,55,64	5
2	ZN	B	802	1/1	0.99	0.22	54,54,54,54	0
2	ZN	A	1002	1/1	0.99	0.24	53,53,53,53	0
2	ZN	A	1001	1/1	0.99	0.21	49,49,49,49	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 35D A 1011:

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

Electron density around 35D B 807:

$2mF_o$-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.