



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:42 AM UTC

PDB ID : 5FTS / pdb_00005fts
Title : Pseudomonas aeruginosa RmlA in complex with allosteric inhibitor
Authors : Alpey, M.S.; Tran, F.; Westwood, N.J.; Naismith, J.H.
Deposited on : 2016-01-14
Resolution : 2.20 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

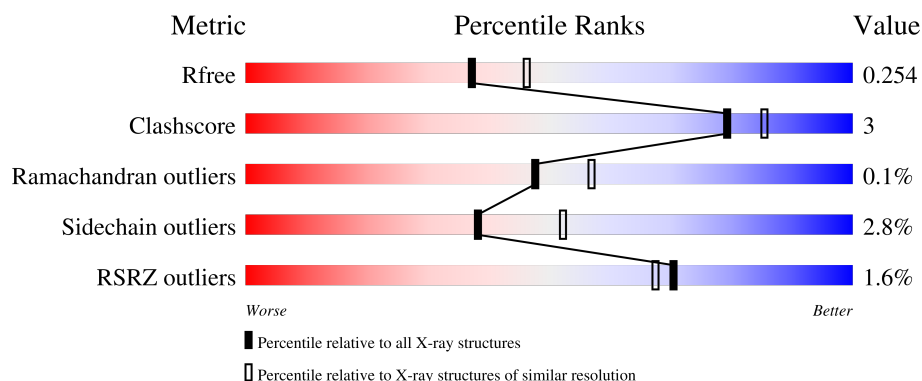
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	303	% 91% 7% .
1	B	303	2% 90% 7% .
1	C	303	2% 91% 7% .
1	D	303	% 90% 6% .

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9797 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 GLUCOSE-1-PHOSPHATE THYMIDYLYLTRANSFERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	296	Total	C	N	O	S	0	1	0
			2331	1490	398	439	4			
1	B	292	Total	C	N	O	S	0	1	0
			2291	1466	386	435	4			
1	C	296	Total	C	N	O	S	0	0	0
			2325	1486	397	438	4			
1	D	292	Total	C	N	O	S	0	0	0
			2285	1462	385	434	4			

There are 40 discrepancies between the modelled and reference sequences:

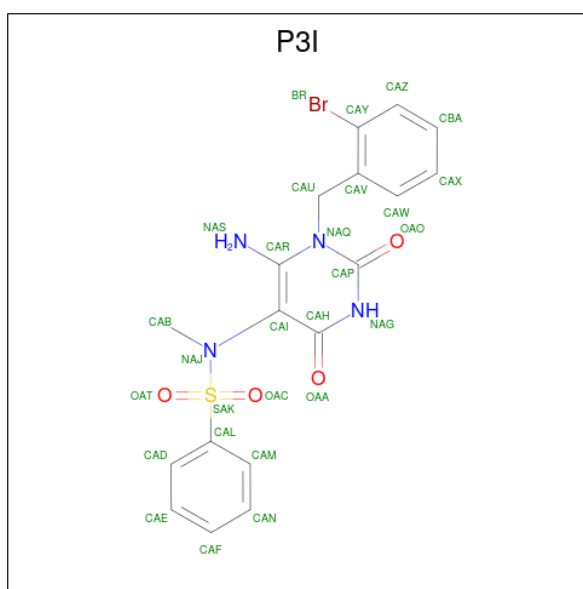
Chain	Residue	Modelled	Actual	Comment	Reference
A	-9	HIS	-	expression tag	UNP Q9HU22
A	-8	HIS	-	expression tag	UNP Q9HU22
A	-7	HIS	-	expression tag	UNP Q9HU22
A	-6	HIS	-	expression tag	UNP Q9HU22
A	-5	HIS	-	expression tag	UNP Q9HU22
A	-4	HIS	-	expression tag	UNP Q9HU22
A	-3	GLY	-	expression tag	UNP Q9HU22
A	-2	SER	-	expression tag	UNP Q9HU22
A	-1	MET	-	expression tag	UNP Q9HU22
A	0	ALA	-	expression tag	UNP Q9HU22
B	-9	HIS	-	expression tag	UNP Q9HU22
B	-8	HIS	-	expression tag	UNP Q9HU22
B	-7	HIS	-	expression tag	UNP Q9HU22
B	-6	HIS	-	expression tag	UNP Q9HU22
B	-5	HIS	-	expression tag	UNP Q9HU22
B	-4	HIS	-	expression tag	UNP Q9HU22
B	-3	GLY	-	expression tag	UNP Q9HU22
B	-2	SER	-	expression tag	UNP Q9HU22
B	-1	MET	-	expression tag	UNP Q9HU22
B	0	ALA	-	expression tag	UNP Q9HU22

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-9	HIS	-	expression tag	UNP Q9HU22
C	-8	HIS	-	expression tag	UNP Q9HU22
C	-7	HIS	-	expression tag	UNP Q9HU22
C	-6	HIS	-	expression tag	UNP Q9HU22
C	-5	HIS	-	expression tag	UNP Q9HU22
C	-4	HIS	-	expression tag	UNP Q9HU22
C	-3	GLY	-	expression tag	UNP Q9HU22
C	-2	SER	-	expression tag	UNP Q9HU22
C	-1	MET	-	expression tag	UNP Q9HU22
C	0	ALA	-	expression tag	UNP Q9HU22
D	-9	HIS	-	expression tag	UNP Q9HU22
D	-8	HIS	-	expression tag	UNP Q9HU22
D	-7	HIS	-	expression tag	UNP Q9HU22
D	-6	HIS	-	expression tag	UNP Q9HU22
D	-5	HIS	-	expression tag	UNP Q9HU22
D	-4	HIS	-	expression tag	UNP Q9HU22
D	-3	GLY	-	expression tag	UNP Q9HU22
D	-2	SER	-	expression tag	UNP Q9HU22
D	-1	MET	-	expression tag	UNP Q9HU22
D	0	ALA	-	expression tag	UNP Q9HU22

- Molecule 2 is N-(6-Amino-1-(2-bromobenzyl)-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-5-yl)-N-methylbenzenesulfonamide (CCD ID: P3I) (formula: C₁₈H₁₇BrN₄O₄S).



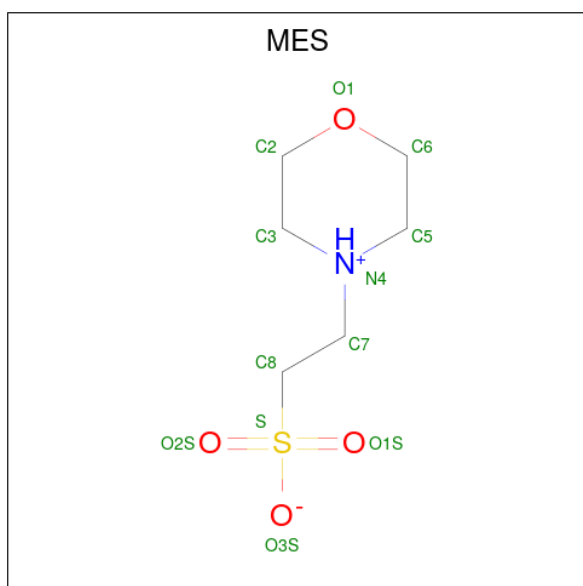
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	Br	C	N	O	S	0	1
			44	2	28	7	6	1		

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	B	1	Total	Br	C	N	O	S	0	1
			44	2	28	7	6	1		
2	C	1	Total	Br	C	N	O	S	0	1
			44	2	28	7	6	1		
2	D	1	Total	Br	C	N	O	S	0	1
			44	2	28	7	6	1		

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: $C_6H_{13}NO_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	B	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	C	1	Total	C	N	O	S	0	0
			12	6	1	4	1		
3	D	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	1	Total 1	Cl 1	0	0
4	D	1	Total 1	Cl 1	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	101	Total 101	O 101	0	0
5	B	84	Total 84	O 84	0	0
5	C	79	Total 79	O 79	0	0
5	D	73	Total 73	O 73	0	0

• Molecule 1: GLUCOSE-1-PHOSPHATE THYMIDYLYLTRANSFERASE



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	64.01Å 153.94Å 134.48Å 90.00° 92.37° 90.00°	Depositor
Resolution (Å)	134.37 – 2.20 134.37 – 2.20	Depositor EDS
% Data completeness (in resolution range)	94.6 (134.37-2.20) 94.6 (134.37-2.20)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.19Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.199 , 0.259 0.203 , 0.254	Depositor DCC
R_{free} test set	3144 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	23.3	Xtriage
Anisotropy	0.307	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 34.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.079 for h,-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9797	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.14% 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: CL, P3I, MES

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	0.96	0/2387	1.02	0/3237
1	B	0.98	1/2344 (0.0%)	1.03	2/3180 (0.1%)
1	C	0.93	1/2378 (0.0%)	0.99	1/3225 (0.0%)
1	D	0.91	0/2335	0.97	2/3168 (0.1%)
All	All	0.95	2/9444 (0.0%)	1.00	5/12810 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	162	LYS	C-O	-7.37	1.20	1.23
1	C	143	GLU	N-CA	5.39	1.53	1.46

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	182	VAL	N-CA-C	6.30	117.08	110.72
1	B	148	VAL	CB-CA-C	-5.23	103.72	110.84
1	D	82	GLN	CA-C-N	5.03	125.06	119.32
1	D	82	GLN	C-N-CA	5.03	125.06	119.32
1	C	115	GLY	N-CA-C	5.00	117.75	111.09

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	2331	0	2310	11	0
1	B	2291	0	2280	14	0
1	C	2325	0	2302	11	0
1	D	2285	0	2272	14	0
2	A	44	0	0	1	0
2	B	44	0	0	4	0
2	C	44	0	0	1	0
2	D	44	0	0	4	0
3	A	12	0	13	1	0
3	B	12	0	13	2	0
3	C	12	0	13	1	0
3	D	12	0	13	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	101	0	0	1	0
5	B	84	0	0	0	0
5	C	79	0	0	0	0
5	D	73	0	0	0	0
All	All	9797	0	9216	50	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 3.

All (50) 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:35:MET:HE2	1:B:226:THR:HG21	1.69	0.75
2:B:1294[B]:P3I:CAP	2:B:1294[B]:P3I:CAW	2.66	0.71
1:B:23:ILE:HB	1:D:23:ILE:HD13	1.74	0.69
1:B:154:GLY:O	3:B:1295:MES:H72	1.96	0.64
2:D:1294[A]:P3I:OAO	2:D:1294[A]:P3I:CAW	2.46	0.63
1:A:237[A]:GLN:OE1	1:C:237:GLN:NE2	2.26	0.63
1:A:233:LEU:HD11	1:C:237:GLN:HG3	1.84	0.59
1:D:226:THR:HG23	1:D:232:LEU:HA	1.84	0.59
1:B:35:MET:CE	1:B:226:THR:HG21	2.33	0.57
1:A:30:VAL:HG11	1:A:112:LEU:HD21	1.87	0.57
1:B:237[A]:GLN:CD	1:D:237:GLN:HE21	2.14	0.56
2:B:1294[A]:P3I:CAW	2:B:1294[A]:P3I:OAO	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:237[A]:GLN:OE1	1:D:237:GLN:NE2	2.31	0.55
1:D:226:THR:CG2	1:D:232:LEU:HD13	2.39	0.53
2:D:1294[B]:P3I:CAW	2:D:1294[B]:P3I:CAP	2.85	0.53
1:B:226:THR:HG22	1:B:226:THR:O	2.09	0.53
1:B:234:GLU:HA	1:B:237[A]:GLN:NE2	2.23	0.53
1:D:23:ILE:HD11	1:D:27:LEU:HB2	1.90	0.52
2:C:1294[A]:P3I:CAW	2:C:1294[A]:P3I:OAO	2.58	0.52
2:A:1294[B]:P3I:CAW	2:A:1294[B]:P3I:CAP	2.87	0.52
1:B:234:GLU:HA	1:B:237[A]:GLN:HE21	1.74	0.51
1:C:214:VAL:O	3:C:1295:MES:H82	2.11	0.49
1:A:233:LEU:HD21	1:C:237:GLN:HA	1.95	0.49
5:A:2084:HOH:O	1:C:32:ASP:HB2	2.13	0.48
1:B:154:GLY:O	3:B:1295:MES:C7	2.61	0.48
1:B:237[A]:GLN:OE1	1:D:237:GLN:HG2	2.14	0.48
1:D:148:VAL:O	1:D:168:SER:OG	2.26	0.48
1:A:28:LEU:HD22	1:C:29:PRO:CD	2.45	0.47
1:C:86:ASP:HB2	1:C:90:GLN:HE22	1.80	0.47
2:D:1294[A]:P3I:CAW	2:D:1294[A]:P3I:CAP	2.93	0.45
2:B:1294[B]:P3I:CAW	2:B:1294[B]:P3I:OAO	2.66	0.44
1:A:154:GLY:O	3:A:1295:MES:H72	2.17	0.44
1:A:251:ALA:O	1:A:253:PRO:HD3	2.17	0.43
1:C:25:LYS:NZ	1:C:110:ASP:OD2	2.50	0.43
1:C:148:VAL:O	1:C:168:SER:OG	2.32	0.43
1:C:105:ALA:HA	1:C:176:TYR:O	2.19	0.43
1:B:128:ARG:NH1	1:B:133:SER:OG	2.52	0.42
1:B:273:ALA:HB3	1:B:274:PRO:HD3	2.01	0.42
2:B:1294[A]:P3I:CAW	2:B:1294[A]:P3I:CAP	2.98	0.42
1:D:23:ILE:HD11	1:D:27:LEU:CB	2.49	0.42
1:A:142:PRO:HG2	1:A:166:PRO:HG2	2.03	0.41
2:D:1294[B]:P3I:CAW	2:D:1294[B]:P3I:OAO	2.68	0.41
1:A:233:LEU:HD11	1:C:237:GLN:CG	2.48	0.41
1:D:26:GLN:HB2	1:D:63:PHE:HZ	1.84	0.41
1:B:237[A]:GLN:CG	1:D:237:GLN:HE21	2.33	0.41
1:D:179:ASP:OD1	1:D:179:ASP:C	2.64	0.41
1:D:4:LYS:HB3	1:D:98:PHE:CZ	2.57	0.40
1:A:88:LEU:HD13	1:A:108:LEU:HD21	2.03	0.40
1:A:35:MET:CE	1:A:226:THR:HG21	2.52	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	293/303 (97%)	286 (98%)	7 (2%)	0	100	100
1	B	291/303 (96%)	284 (98%)	6 (2%)	1 (0%)	36	42
1	C	292/303 (96%)	285 (98%)	7 (2%)	0	100	100
1	D	290/303 (96%)	282 (97%)	8 (3%)	0	100	100
All	All	1166/1212 (96%)	1137 (98%)	28 (2%)	1 (0%)	48	57

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	31	TYR

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	244/248 (98%)	237 (97%)	7 (3%)	37	51
1	B	240/248 (97%)	234 (98%)	6 (2%)	42	56
1	C	243/248 (98%)	235 (97%)	8 (3%)	33	45
1	D	239/248 (96%)	233 (98%)	6 (2%)	42	56
All	All	966/992 (97%)	939 (97%)	27 (3%)	38	52

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	ARG
1	A	111	ASN
1	A	126	SER
1	A	127	GLN
1	A	130	THR
1	A	232	LEU
1	A	275	LEU
1	B	2	LYS
1	B	127	GLN
1	B	129	GLN
1	B	143	GLU
1	B	190	LYS
1	B	194	ARG
1	C	2	LYS
1	C	15	ARG
1	C	21	LEU
1	C	143	GLU
1	C	190	LYS
1	C	226	THR
1	C	232	LEU
1	C	277	LYS
1	D	2	LYS
1	D	112	LEU
1	D	143	GLU
1	D	148	VAL
1	D	285	LYS
1	D	289	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	-6	HIS
1	A	78	GLN
1	A	82	GLN
1	A	90	GLN
1	A	127	GLN
1	B	169	ASN
1	B	181	GLN
1	B	211	GLN
1	C	72	ASN
1	C	260	GLN
1	D	58	GLN
1	D	65	GLN

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Mol	Chain	Res	Type
1	D	111	ASN
1	D	181	GLN
1	D	211	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 16 ligands modelled in this entry, 4 are monoatomic - leaving 12 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	MES	D	1295	-	12,12,12	1.96	1 (8%)	15,16,16	2.05	5 (33%)
2	P3I	B	1294[A]	-	30,30,30	3.29	7 (23%)	39,44,44	1.96	12 (30%)
2	P3I	B	1294[B]	-	30,30,30	3.33	9 (30%)	39,44,44	2.15	14 (35%)
3	MES	C	1295	-	12,12,12	2.34	1 (8%)	15,16,16	2.19	5 (33%)
3	MES	A	1295	-	12,12,12	1.95	1 (8%)	15,16,16	1.59	2 (13%)
2	P3I	D	1294[A]	-	30,30,30	3.02	7 (23%)	39,44,44	2.19	12 (30%)
3	MES	B	1295	-	12,12,12	2.24	1 (8%)	15,16,16	2.03	3 (20%)
2	P3I	D	1294[B]	-	30,30,30	2.98	7 (23%)	39,44,44	2.26	13 (33%)
2	P3I	A	1294[A]	-	30,30,30	3.61	7 (23%)	39,44,44	2.41	14 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	P3I	C	1294[A]	-	30,30,30	3.15	7 (23%)	39,44,44	2.26	9 (23%)
2	P3I	A	1294[B]	-	30,30,30	3.62	9 (30%)	39,44,44	2.61	19 (48%)
2	P3I	C	1294[B]	-	30,30,30	3.12	8 (26%)	39,44,44	2.32	12 (30%)

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	MES	D	1295	-	-	3/6/14/14	0/1/1/1
2	P3I	B	1294[A]	-	-	1/16/20/20	0/3/3/3
2	P3I	B	1294[B]	-	-	1/16/20/20	0/3/3/3
3	MES	C	1295	-	-	2/6/14/14	0/1/1/1
3	MES	A	1295	-	-	3/6/14/14	0/1/1/1
2	P3I	D	1294[A]	-	-	0/16/20/20	0/3/3/3
3	MES	B	1295	-	-	4/6/14/14	0/1/1/1
2	P3I	D	1294[B]	-	-	0/16/20/20	0/3/3/3
2	P3I	A	1294[A]	-	-	1/16/20/20	0/3/3/3
2	P3I	C	1294[A]	-	-	0/16/20/20	0/3/3/3
2	P3I	A	1294[B]	-	-	1/16/20/20	0/3/3/3
2	P3I	C	1294[B]	-	-	0/16/20/20	0/3/3/3

All (65) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1294[A]	P3I	OAC-SAK	10.75	1.55	1.43
2	C	1294[B]	P3I	OAC-SAK	10.75	1.55	1.43
2	A	1294[A]	P3I	OAT-SAK	10.72	1.54	1.43
2	A	1294[B]	P3I	OAT-SAK	10.72	1.54	1.43
2	B	1294[A]	P3I	OAC-SAK	10.11	1.54	1.43
2	B	1294[B]	P3I	OAC-SAK	10.11	1.54	1.43
2	D	1294[A]	P3I	OAT-SAK	9.91	1.54	1.43
2	D	1294[B]	P3I	OAT-SAK	9.91	1.54	1.43
2	B	1294[A]	P3I	OAT-SAK	9.65	1.53	1.43
2	B	1294[B]	P3I	OAT-SAK	9.65	1.53	1.43
2	C	1294[A]	P3I	OAT-SAK	9.42	1.53	1.43
2	C	1294[B]	P3I	OAT-SAK	9.42	1.53	1.43
2	D	1294[A]	P3I	OAC-SAK	9.08	1.53	1.43
2	D	1294[B]	P3I	OAC-SAK	9.08	1.53	1.43
2	A	1294[A]	P3I	OAC-SAK	9.04	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1294[B]	P3I	OAC-SAK	9.04	1.53	1.43
2	A	1294[A]	P3I	CAL-SAK	8.92	1.88	1.76
2	A	1294[B]	P3I	CAL-SAK	8.92	1.88	1.76
3	C	1295	MES	C8-S	-7.26	1.67	1.77
3	B	1295	MES	C8-S	-6.87	1.68	1.77
2	A	1294[A]	P3I	SAK-NAJ	6.78	1.80	1.65
2	A	1294[B]	P3I	SAK-NAJ	6.78	1.80	1.65
2	B	1294[B]	P3I	CAU-CAV	-6.46	1.40	1.51
2	B	1294[A]	P3I	CAU-CAV	-6.38	1.40	1.51
2	C	1294[A]	P3I	CAU-CAV	-6.18	1.40	1.51
2	D	1294[A]	P3I	CAU-CAV	-6.11	1.40	1.51
3	D	1295	MES	C8-S	-6.08	1.69	1.77
2	B	1294[A]	P3I	SAK-NAJ	5.89	1.78	1.65
2	B	1294[B]	P3I	SAK-NAJ	5.89	1.78	1.65
3	A	1295	MES	C8-S	-5.62	1.69	1.77
2	A	1294[A]	P3I	CAU-CAV	-5.15	1.42	1.51
2	D	1294[B]	P3I	CAU-CAV	-5.07	1.42	1.51
2	C	1294[B]	P3I	CAU-CAV	-4.68	1.43	1.51
2	A	1294[B]	P3I	CAU-CAV	-4.51	1.43	1.51
2	B	1294[A]	P3I	CAL-SAK	4.10	1.81	1.76
2	B	1294[B]	P3I	CAL-SAK	4.10	1.81	1.76
2	C	1294[A]	P3I	CAB-NAJ	3.91	1.52	1.48
2	C	1294[B]	P3I	CAB-NAJ	3.91	1.52	1.48
2	D	1294[A]	P3I	CAL-SAK	3.90	1.81	1.76
2	D	1294[B]	P3I	CAL-SAK	3.90	1.81	1.76
2	A	1294[B]	P3I	CAU-NAQ	3.66	1.53	1.47
2	C	1294[A]	P3I	CAL-SAK	3.48	1.81	1.76
2	C	1294[B]	P3I	CAL-SAK	3.48	1.81	1.76
2	A	1294[A]	P3I	CAB-NAJ	3.46	1.52	1.48
2	A	1294[B]	P3I	CAB-NAJ	3.46	1.52	1.48
2	D	1294[B]	P3I	CAP-NAQ	-3.33	1.34	1.39
2	C	1294[B]	P3I	CAU-NAQ	3.24	1.52	1.47
2	B	1294[B]	P3I	BR-CAY	-3.12	1.82	1.89
2	D	1294[A]	P3I	CAP-NAQ	-3.09	1.34	1.39
2	D	1294[B]	P3I	CAU-NAQ	3.05	1.52	1.47
2	B	1294[A]	P3I	CAB-NAJ	2.91	1.51	1.48
2	B	1294[B]	P3I	CAB-NAJ	2.91	1.51	1.48
2	D	1294[A]	P3I	SAK-NAJ	2.80	1.71	1.65
2	D	1294[B]	P3I	SAK-NAJ	2.80	1.71	1.65
2	B	1294[A]	P3I	CAP-NAQ	-2.74	1.35	1.39
2	A	1294[B]	P3I	CAV-CAY	2.72	1.43	1.39
2	B	1294[B]	P3I	CAU-NAQ	2.68	1.51	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1294[A]	P3I	BR-CAY	-2.59	1.84	1.89
2	C	1294[B]	P3I	CAP-NAQ	-2.45	1.35	1.39
2	B	1294[B]	P3I	CAP-NAQ	-2.43	1.35	1.39
2	C	1294[A]	P3I	CAP-NAQ	-2.27	1.35	1.39
2	A	1294[B]	P3I	CAP-NAQ	-2.16	1.36	1.39
2	C	1294[A]	P3I	CAR-NAQ	-2.10	1.35	1.39
2	D	1294[A]	P3I	CAP-NAG	2.08	1.41	1.38
2	C	1294[B]	P3I	CAV-CAY	2.03	1.42	1.39

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1294[A]	P3I	OAC-SAK-OAT	-7.35	108.12	119.59
2	C	1294[B]	P3I	OAC-SAK-OAT	-7.35	108.12	119.59
2	D	1294[A]	P3I	OAC-SAK-NAJ	6.27	115.29	106.59
2	D	1294[B]	P3I	OAC-SAK-NAJ	6.27	115.29	106.59
2	A	1294[A]	P3I	OAT-SAK-CAL	5.96	115.51	108.10
2	A	1294[B]	P3I	OAT-SAK-CAL	5.96	115.51	108.10
3	C	1295	MES	C2-C3-N4	5.59	118.62	110.12
2	A	1294[B]	P3I	BR-CAY-CAV	5.56	127.60	120.37
2	D	1294[A]	P3I	CAH-NAG-CAP	-5.43	120.22	127.34
2	B	1294[A]	P3I	CAH-NAG-CAP	-5.37	120.30	127.34
2	D	1294[A]	P3I	OAC-SAK-OAT	-5.37	111.22	119.59
2	D	1294[B]	P3I	OAC-SAK-OAT	-5.37	111.22	119.59
2	A	1294[A]	P3I	CAH-NAG-CAP	-5.24	120.47	127.34
2	C	1294[A]	P3I	CAH-NAG-CAP	-5.15	120.59	127.34
2	A	1294[A]	P3I	OAC-SAK-OAT	-5.09	111.65	119.59
2	A	1294[B]	P3I	OAC-SAK-OAT	-5.09	111.65	119.59
2	D	1294[B]	P3I	CAH-NAG-CAP	-5.06	120.70	127.34
3	B	1295	MES	C2-C3-N4	5.03	117.77	110.12
2	B	1294[B]	P3I	CAH-NAG-CAP	-4.84	121.00	127.34
2	C	1294[A]	P3I	OAC-SAK-NAJ	4.84	113.31	106.59
2	C	1294[B]	P3I	OAC-SAK-NAJ	4.84	113.31	106.59
3	D	1295	MES	O1S-S-C8	4.83	114.02	106.73
2	A	1294[B]	P3I	CAH-NAG-CAP	-4.82	121.02	127.34
3	B	1295	MES	O1S-S-C8	4.82	114.01	106.73
2	A	1294[A]	P3I	OAC-SAK-NAJ	4.77	113.22	106.59
2	A	1294[B]	P3I	OAC-SAK-NAJ	4.77	113.22	106.59
2	B	1294[A]	P3I	OAT-SAK-CAL	4.59	113.81	108.10
2	B	1294[B]	P3I	OAT-SAK-CAL	4.59	113.81	108.10
2	A	1294[A]	P3I	CAU-NAQ-CAP	4.47	122.18	117.05
2	C	1294[B]	P3I	CAH-NAG-CAP	-4.44	121.52	127.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1294[B]	P3I	CAI-CAH-NAG	4.36	118.61	110.94
2	D	1294[B]	P3I	CAI-CAH-NAG	4.27	118.46	110.94
2	C	1294[A]	P3I	CAI-CAH-NAG	4.25	118.43	110.94
2	A	1294[B]	P3I	CAI-CAH-NAG	4.19	118.32	110.94
2	B	1294[A]	P3I	OAC-SAK-OAT	-4.09	113.20	119.59
2	B	1294[B]	P3I	OAC-SAK-OAT	-4.09	113.20	119.59
2	D	1294[A]	P3I	CAI-CAH-NAG	4.07	118.11	110.94
2	B	1294[B]	P3I	CAI-CAH-NAG	4.07	118.10	110.94
2	A	1294[A]	P3I	CAI-CAH-NAG	4.00	117.98	110.94
3	D	1295	MES	C2-C3-N4	3.98	116.18	110.12
2	B	1294[A]	P3I	CAI-CAH-NAG	3.89	117.79	110.94
2	C	1294[A]	P3I	CAU-NAQ-CAP	3.84	121.45	117.05
3	C	1295	MES	C5-N4-C3	3.79	117.02	108.84
3	A	1295	MES	O3S-S-C8	3.79	113.42	106.00
2	B	1294[B]	P3I	CAV-CAU-NAQ	-3.66	108.72	113.14
2	C	1294[B]	P3I	CAI-CAR-NAQ	3.62	121.67	119.01
2	C	1294[A]	P3I	OAT-SAK-NAJ	3.41	111.33	106.59
2	C	1294[B]	P3I	OAT-SAK-NAJ	3.41	111.33	106.59
2	D	1294[B]	P3I	CAI-CAR-NAQ	3.34	121.46	119.01
2	A	1294[A]	P3I	CAI-CAR-NAQ	3.29	121.42	119.01
2	A	1294[B]	P3I	CAI-CAR-NAQ	3.26	121.41	119.01
2	D	1294[B]	P3I	BR-CAY-CAV	3.26	124.61	120.37
2	B	1294[B]	P3I	BR-CAY-CAV	3.23	124.57	120.37
2	D	1294[A]	P3I	CAI-CAR-NAQ	3.15	121.32	119.01
3	A	1295	MES	C2-C3-N4	3.04	114.74	110.12
2	D	1294[B]	P3I	OAO-CAP-NAQ	-3.01	118.39	122.32
2	C	1294[B]	P3I	CAV-CAU-NAQ	3.00	116.76	113.14
2	D	1294[B]	P3I	NAG-CAP-NAQ	2.97	120.79	115.45
2	A	1294[A]	P3I	OAC-SAK-CAL	-2.95	104.44	108.10
2	A	1294[B]	P3I	OAC-SAK-CAL	-2.95	104.44	108.10
2	D	1294[A]	P3I	OAT-SAK-CAL	2.95	111.77	108.10
2	D	1294[B]	P3I	OAT-SAK-CAL	2.95	111.77	108.10
2	A	1294[B]	P3I	BR-CAY-CAZ	-2.94	112.21	117.82
2	A	1294[B]	P3I	NAG-CAP-NAQ	2.87	120.60	115.45
2	B	1294[B]	P3I	NAG-CAP-NAQ	2.87	120.60	115.45
2	B	1294[B]	P3I	CAI-CAR-NAQ	2.78	121.05	119.01
3	C	1295	MES	O2S-S-C8	2.76	110.89	106.73
2	B	1294[A]	P3I	CAB-NAJ-CAI	-2.67	116.03	121.14
2	B	1294[B]	P3I	CAB-NAJ-CAI	-2.67	116.03	121.14
2	B	1294[A]	P3I	NAG-CAP-NAQ	2.64	120.19	115.45
2	C	1294[B]	P3I	NAG-CAP-NAQ	2.63	120.17	115.45
2	A	1294[B]	P3I	CAI-CAR-NAS	-2.62	117.87	123.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1294[A]	P3I	CAL-SAK-NAJ	-2.61	101.62	106.66
2	A	1294[B]	P3I	CAL-SAK-NAJ	-2.61	101.62	106.66
2	D	1294[A]	P3I	OAO-CAP-NAQ	-2.59	118.95	122.32
2	D	1294[A]	P3I	NAG-CAP-NAQ	2.57	120.07	115.45
2	B	1294[A]	P3I	CAI-CAR-NAQ	2.56	120.89	119.01
3	D	1295	MES	O2S-S-C8	2.55	110.58	106.73
2	D	1294[B]	P3I	CAI-CAR-NAS	-2.52	118.08	123.38
2	A	1294[A]	P3I	OAT-SAK-NAJ	2.47	110.02	106.59
2	A	1294[B]	P3I	OAT-SAK-NAJ	2.47	110.02	106.59
2	A	1294[B]	P3I	CAU-CAV-CAY	2.46	127.11	122.25
2	C	1294[B]	P3I	BR-CAY-CAV	2.46	123.57	120.37
2	B	1294[A]	P3I	OAO-CAP-NAQ	-2.45	119.12	122.32
2	A	1294[B]	P3I	OAA-CAH-CAI	-2.44	121.64	127.62
3	C	1295	MES	C6-C5-N4	2.43	113.82	110.12
2	A	1294[B]	P3I	CAU-CAV-CAW	-2.39	115.40	120.12
2	A	1294[A]	P3I	OAA-CAH-CAI	-2.38	121.77	127.62
2	A	1294[A]	P3I	CAN-CAM-CAL	2.37	121.37	118.95
2	A	1294[B]	P3I	CAN-CAM-CAL	2.37	121.37	118.95
2	B	1294[A]	P3I	CAI-NAJ-SAK	2.36	123.95	120.72
2	B	1294[B]	P3I	CAI-NAJ-SAK	2.36	123.95	120.72
2	A	1294[A]	P3I	NAG-CAP-NAQ	2.34	119.66	115.45
2	A	1294[A]	P3I	CAB-NAJ-CAI	-2.34	116.65	121.14
2	A	1294[B]	P3I	CAB-NAJ-CAI	-2.34	116.65	121.14
2	C	1294[B]	P3I	OAA-CAH-CAI	-2.33	121.89	127.62
3	D	1295	MES	C6-O1-C2	2.33	117.42	109.88
2	B	1294[A]	P3I	OAC-SAK-NAJ	2.32	109.81	106.59
2	B	1294[B]	P3I	OAC-SAK-NAJ	2.32	109.81	106.59
2	B	1294[B]	P3I	CAU-CAV-CAW	-2.31	115.54	120.12
3	C	1295	MES	O2S-S-O1S	-2.30	106.33	113.82
2	C	1294[A]	P3I	OAA-CAH-CAI	-2.29	122.00	127.62
2	D	1294[B]	P3I	OAA-CAH-CAI	-2.29	122.00	127.62
2	C	1294[A]	P3I	CAM-CAL-SAK	2.27	121.99	119.73
2	C	1294[B]	P3I	CAM-CAL-SAK	2.27	121.99	119.73
2	D	1294[A]	P3I	OAA-CAH-CAI	-2.26	122.08	127.62
2	A	1294[B]	P3I	NAS-CAR-NAQ	2.26	120.70	116.29
2	C	1294[B]	P3I	CAI-CAR-NAS	-2.23	118.67	123.38
3	B	1295	MES	C6-O1-C2	2.23	117.08	109.88
2	D	1294[A]	P3I	CAU-NAQ-CAP	2.19	119.56	117.05
2	B	1294[A]	P3I	OAA-CAH-CAI	-2.18	122.28	127.62
3	D	1295	MES	O3S-S-O1S	-2.17	105.96	111.40
2	B	1294[B]	P3I	BR-CAY-CAZ	-2.17	113.69	117.82
2	C	1294[A]	P3I	NAG-CAP-NAQ	2.15	119.32	115.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	1294[B]	P3I	NAS-CAR-NAQ	2.13	120.46	116.29
2	B	1294[A]	P3I	CAU-NAQ-CAP	2.13	119.48	117.05
2	B	1294[B]	P3I	OAA-CAH-CAI	-2.09	122.49	127.62
2	D	1294[A]	P3I	CAI-CAR-NAS	-2.03	119.09	123.38
2	D	1294[A]	P3I	CAL-SAK-NAJ	-2.03	102.74	106.66
2	D	1294[B]	P3I	CAL-SAK-NAJ	-2.03	102.74	106.66

There are no chirality outliers.

All (16) torsion outliers are listed below:

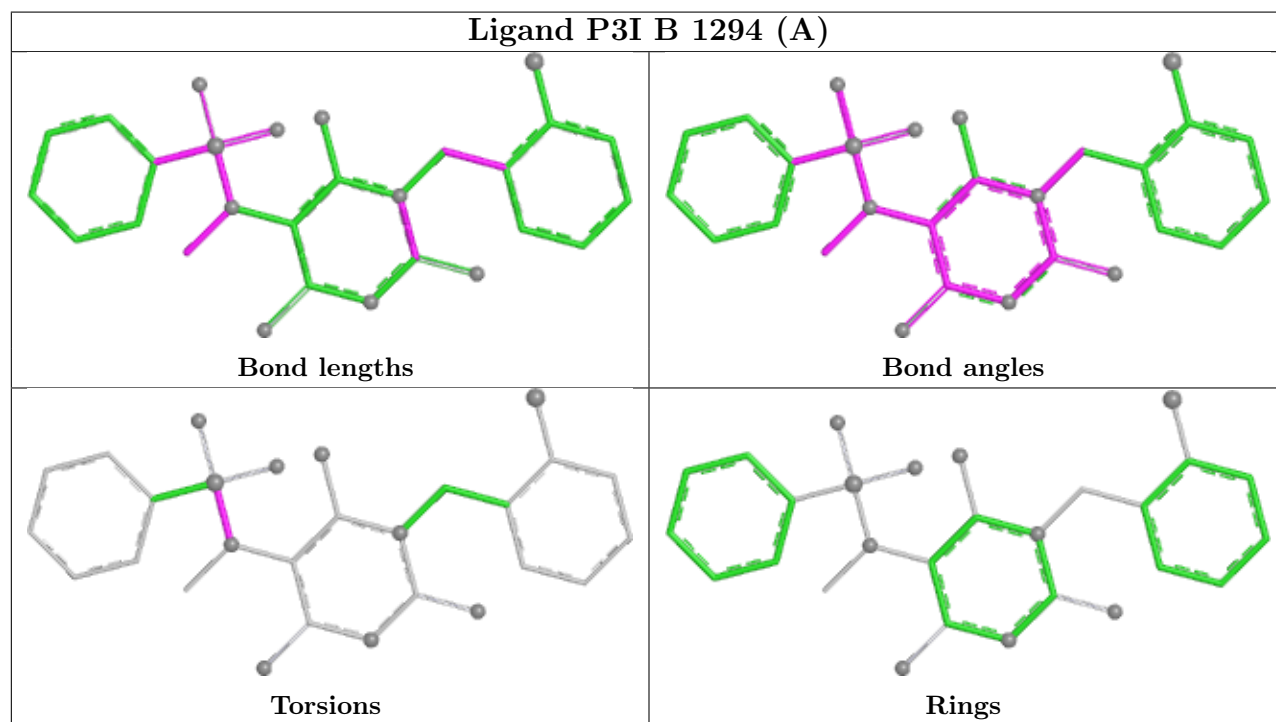
Mol	Chain	Res	Type	Atoms
3	A	1295	MES	C7-C8-S-O1S
3	D	1295	MES	C7-C8-S-O2S
3	D	1295	MES	C7-C8-S-O3S
3	A	1295	MES	C7-C8-S-O3S
3	B	1295	MES	C7-C8-S-O3S
3	C	1295	MES	C8-C7-N4-C3
3	A	1295	MES	C7-C8-S-O2S
3	B	1295	MES	C7-C8-S-O1S
3	B	1295	MES	C7-C8-S-O2S
3	D	1295	MES	C7-C8-S-O1S
3	B	1295	MES	N4-C7-C8-S
3	C	1295	MES	C8-C7-N4-C5
2	A	1294[A]	P3I	CAB-NAJ-SAK-OAT
2	A	1294[B]	P3I	CAB-NAJ-SAK-OAT
2	B	1294[A]	P3I	CAB-NAJ-SAK-OAT
2	B	1294[B]	P3I	CAB-NAJ-SAK-OAT

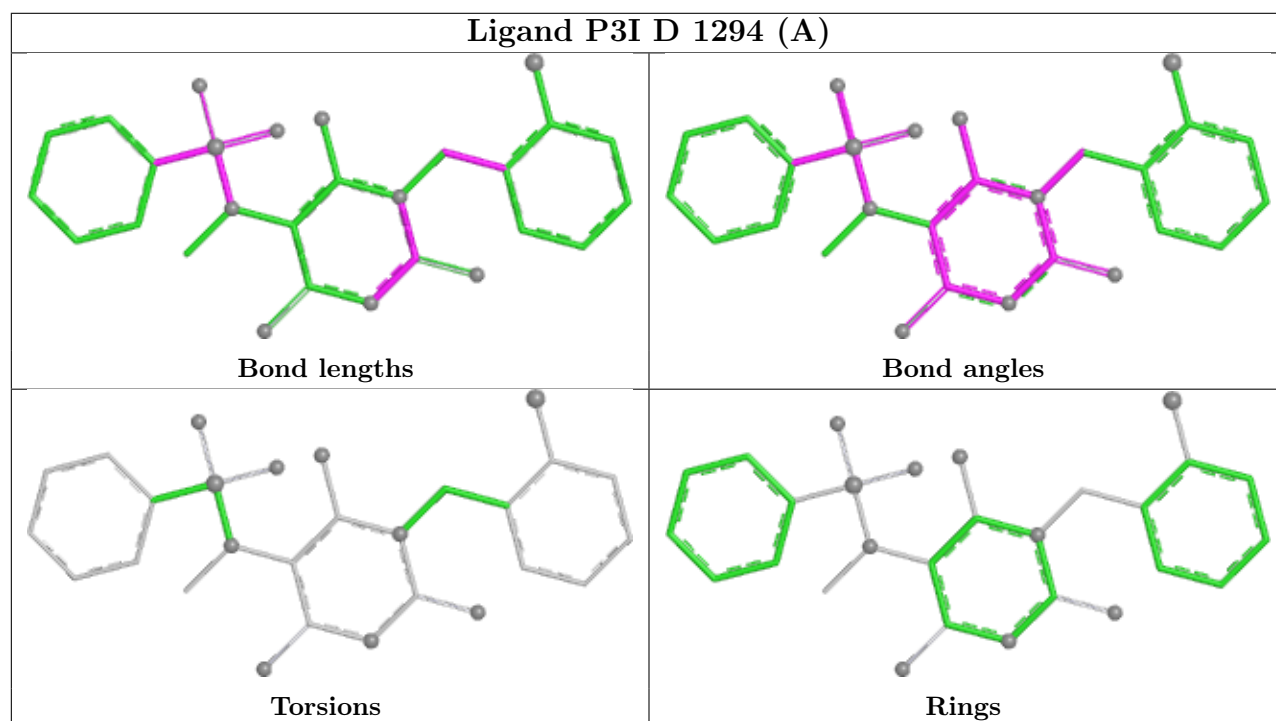
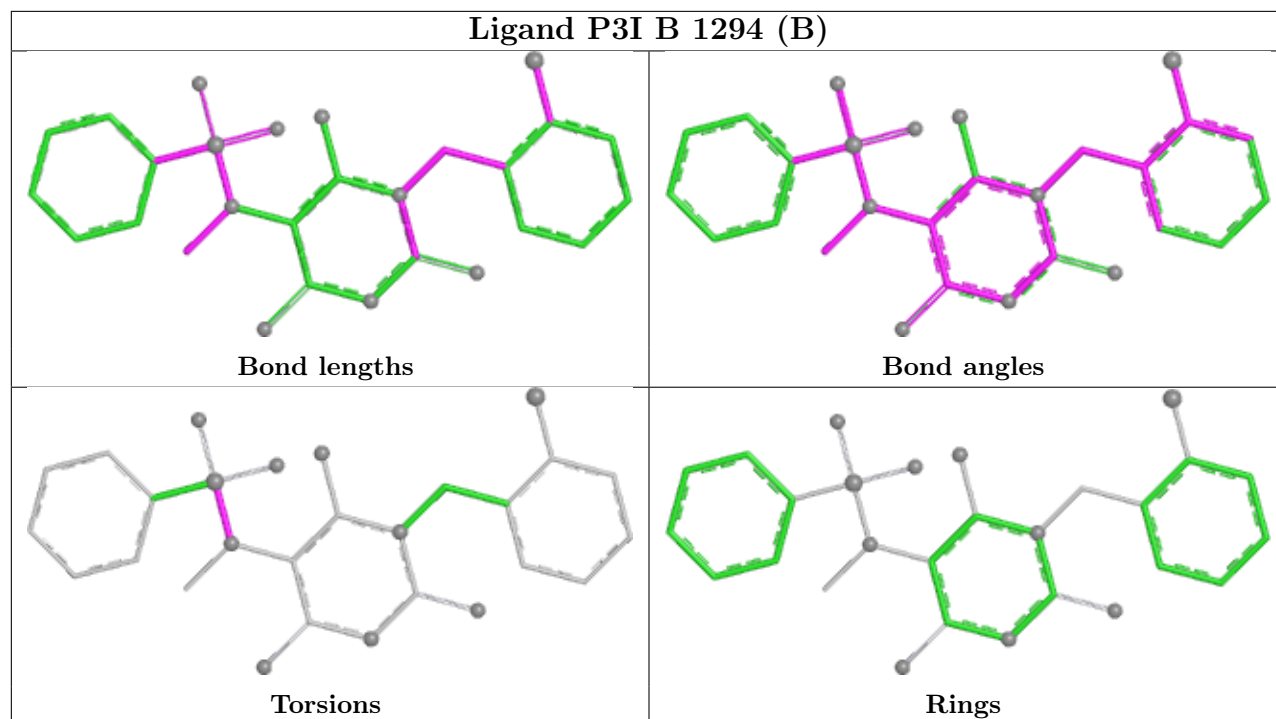
There are no ring outliers.

9 monomers are involved in 14 short contacts:

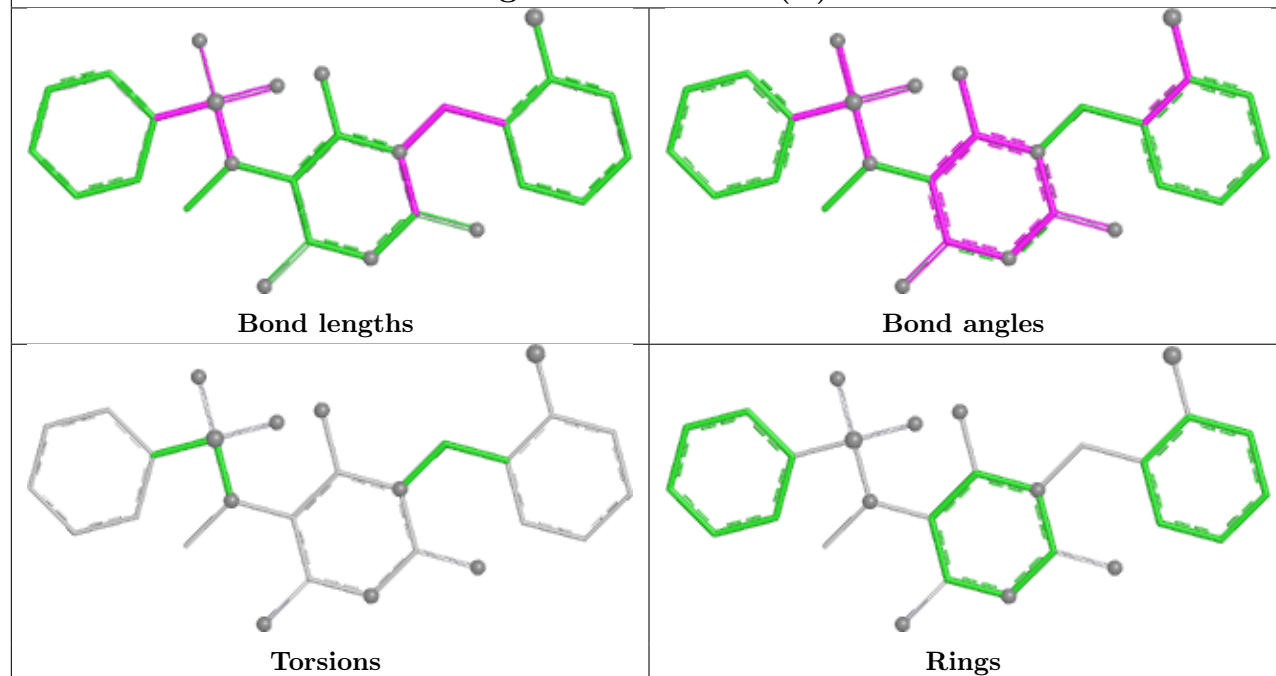
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1294[A]	P3I	2	0
2	B	1294[B]	P3I	2	0
3	C	1295	MES	1	0
3	A	1295	MES	1	0
2	D	1294[A]	P3I	2	0
3	B	1295	MES	2	0
2	D	1294[B]	P3I	2	0
2	C	1294[A]	P3I	1	0
2	A	1294[B]	P3I	1	0

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.

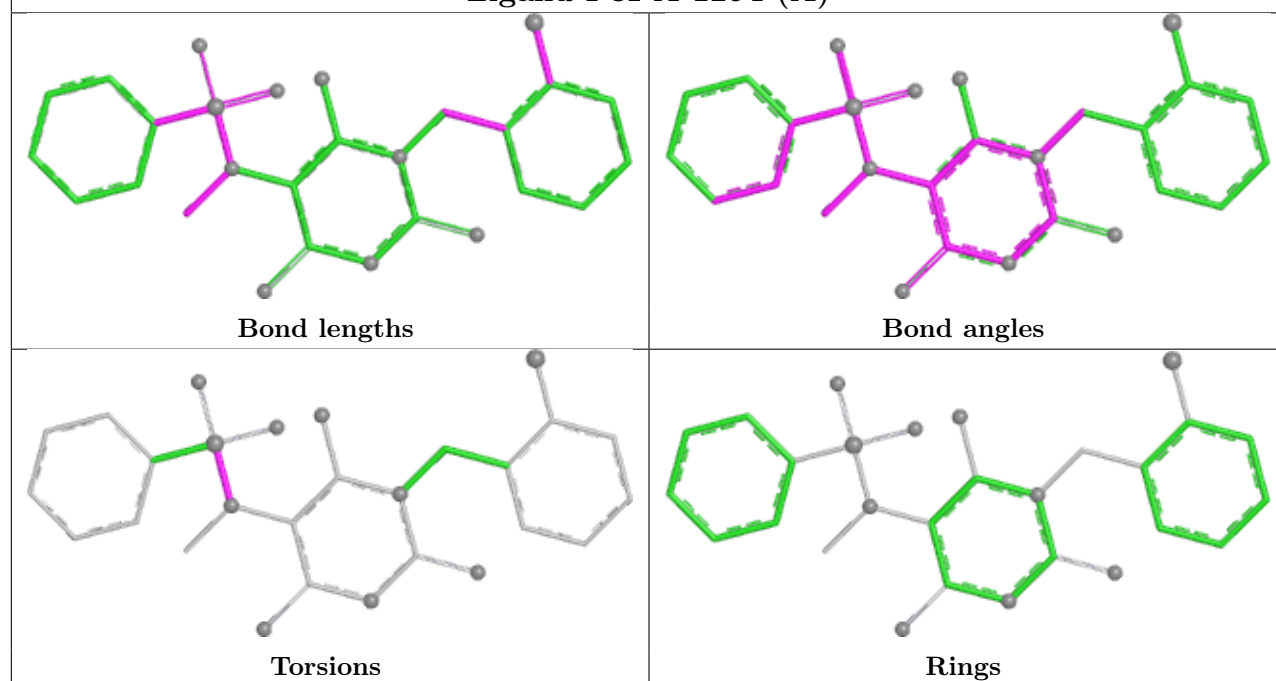


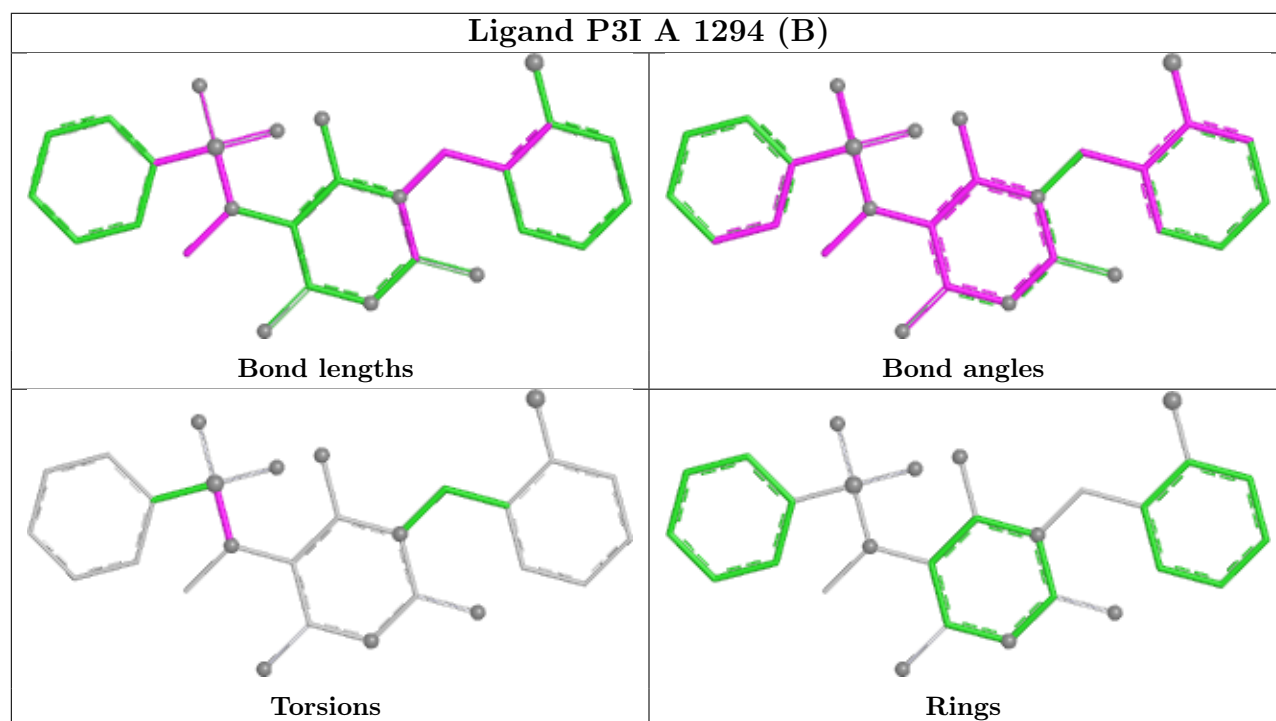
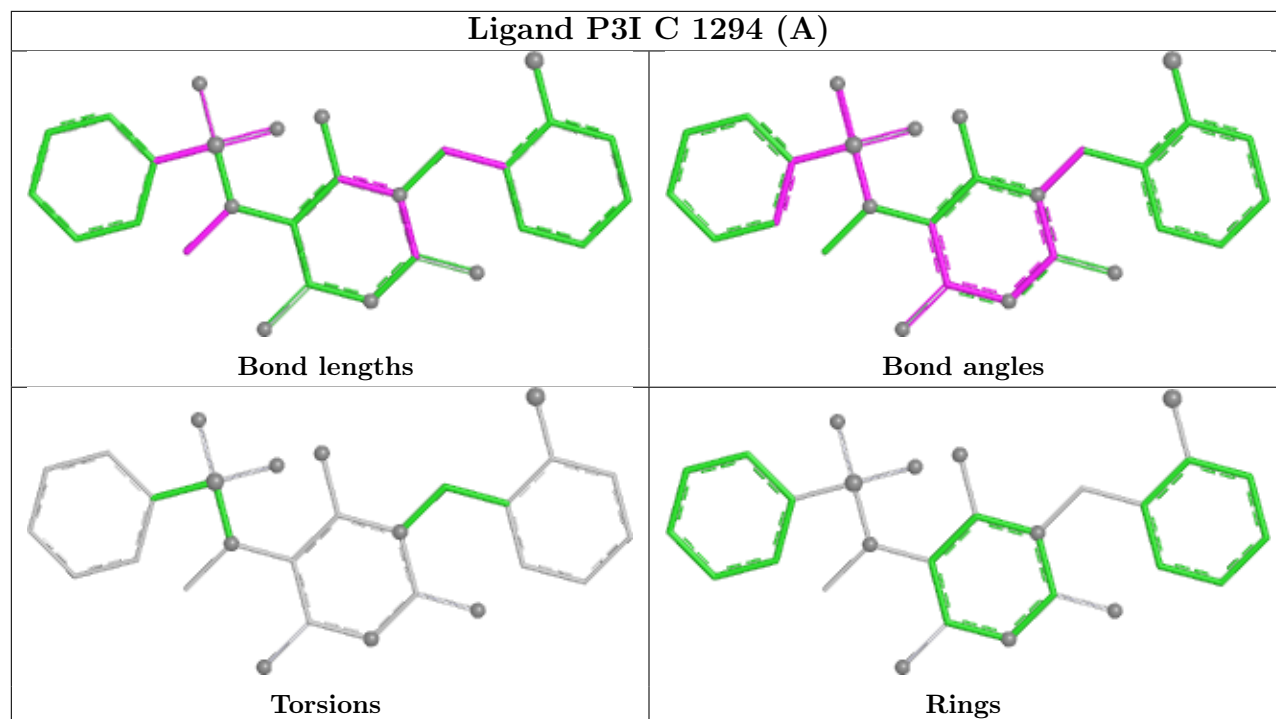


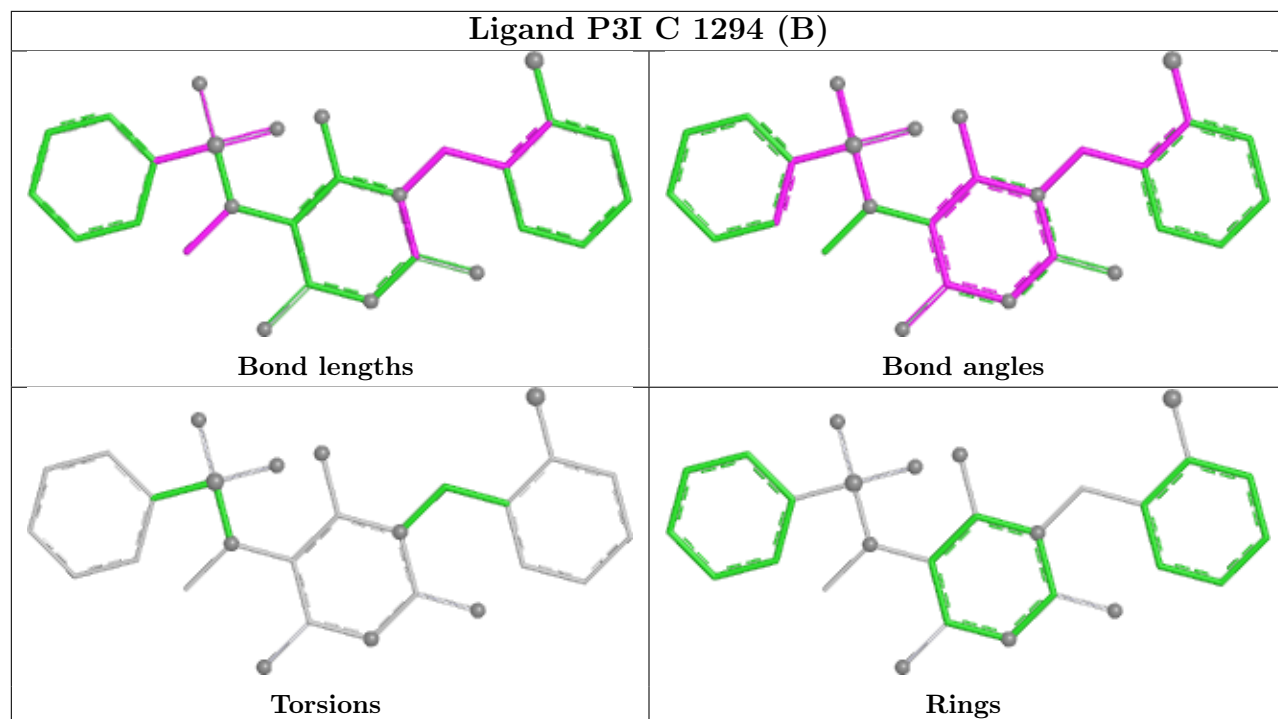
Ligand P3I D 1294 (B)



Ligand P3I A 1294 (A)







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	296/303 (97%)	-0.21	3 (1%) 79 77	9, 25, 50, 87	1 (0%)
1	B	292/303 (96%)	-0.14	7 (2%) 59 56	8, 26, 57, 90	1 (0%)
1	C	296/303 (97%)	0.04	5 (1%) 69 66	19, 30, 56, 94	0
1	D	292/303 (96%)	-0.04	4 (1%) 73 71	15, 31, 55, 103	0
All	All	1176/1212 (97%)	-0.09	19 (1%) 70 67	8, 28, 56, 103	2 (0%)

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	-9	HIS	3.0
1	B	225	ASP	3.0
1	C	-6	HIS	3.0
1	D	194	ARG	2.9
1	B	101	ASN	2.8
1	D	22	ALA	2.6
1	B	11	GLY	2.5
1	C	-5	HIS	2.5
1	B	191	PRO	2.5
1	C	194	ARG	2.4
1	D	128	ARG	2.4
1	D	193	PRO	2.2
1	A	11	GLY	2.2
1	C	-8	HIS	2.2
1	B	194	ARG	2.1
1	C	209	ARG	2.1
1	B	13	GLY	2.1
1	A	194	ARG	2.1
1	B	12	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](#)

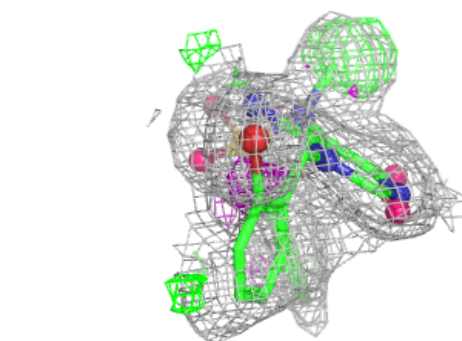
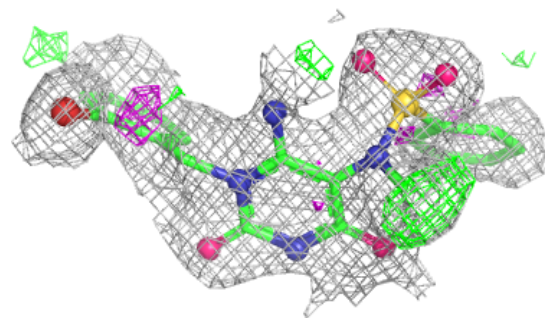
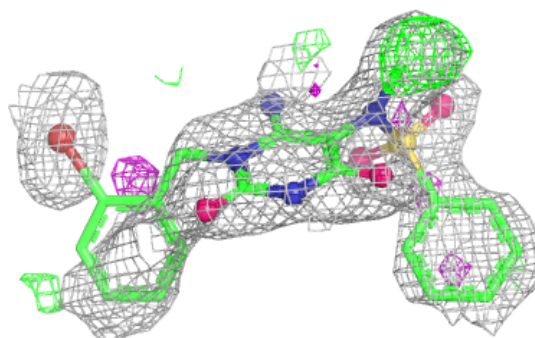
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	MES	C	1295	12/12	0.79	0.17	53,68,73,76	0
2	P3I	C	1294[B]	28/28	0.82	0.15	39,50,59,60	16
2	P3I	C	1294[A]	28/28	0.82	0.15	39,47,53,54	16
3	MES	D	1295	12/12	0.83	0.16	56,64,70,84	0
3	MES	A	1295	12/12	0.85	0.15	48,64,70,72	0
3	MES	B	1295	12/12	0.88	0.12	41,52,56,57	0
2	P3I	B	1294[B]	28/28	0.88	0.12	27,34,42,44	16
2	P3I	B	1294[A]	28/28	0.88	0.12	29,36,42,44	16
2	P3I	D	1294[A]	28/28	0.89	0.13	38,47,54,59	16
2	P3I	D	1294[B]	28/28	0.89	0.13	38,50,56,59	16
2	P3I	A	1294[A]	28/28	0.90	0.12	30,36,41,43	16
2	P3I	A	1294[B]	28/28	0.90	0.12	27,36,41,43	16
4	CL	B	1296	1/1	0.98	0.04	24,24,24,24	0
4	CL	A	1296	1/1	0.99	0.04	21,21,21,21	0
4	CL	C	1296	1/1	0.99	0.03	31,31,31,31	0
4	CL	D	1296	1/1	0.99	0.04	27,27,27,27	0

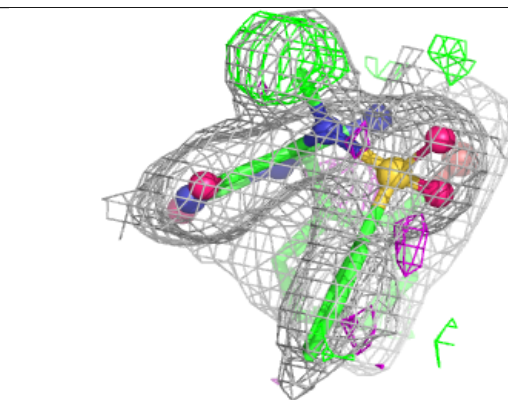
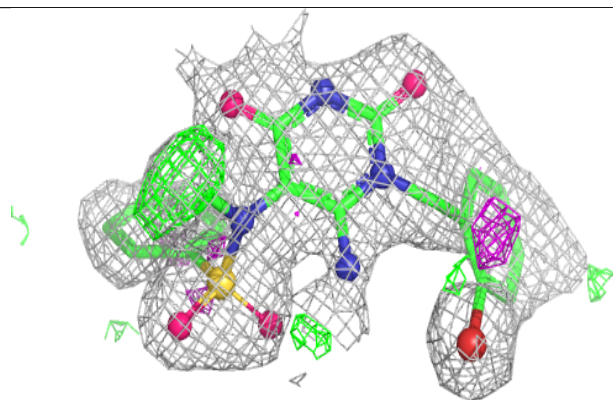
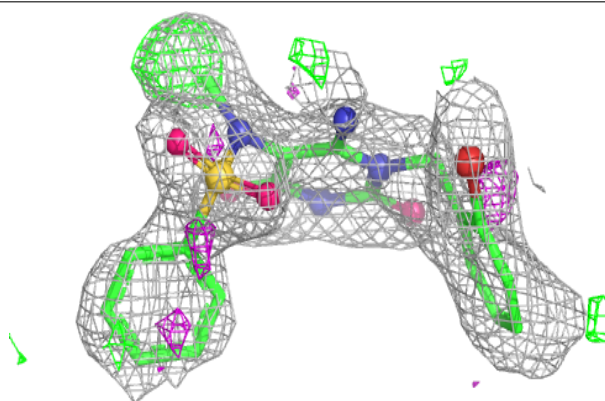
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around P3I C 1294 (B):

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

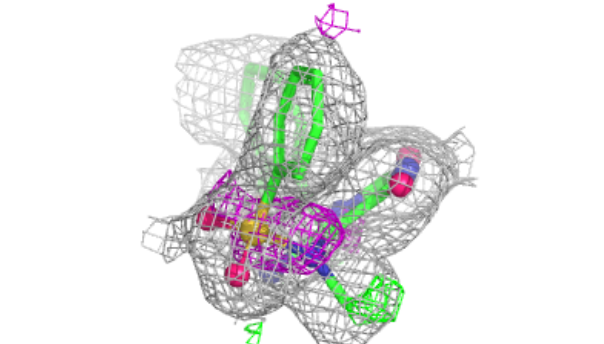
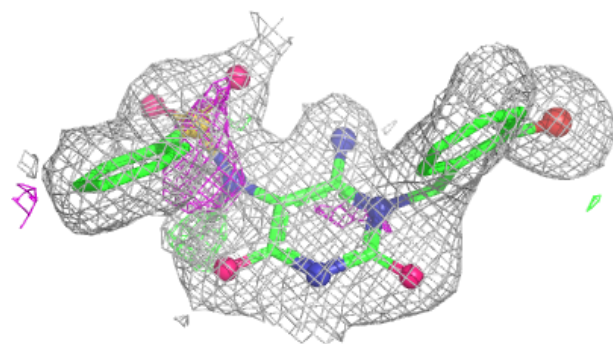
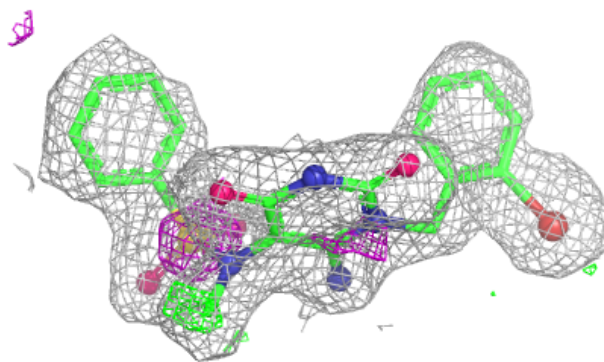
**Electron density around P3I C 1294 (A):**

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

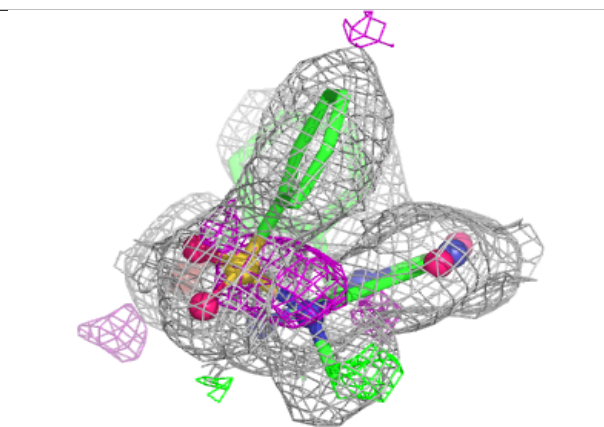
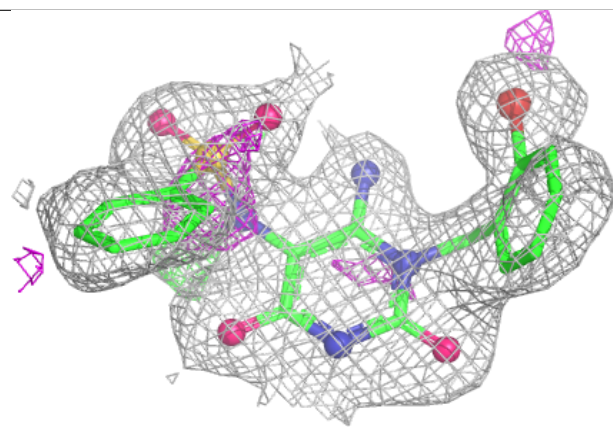
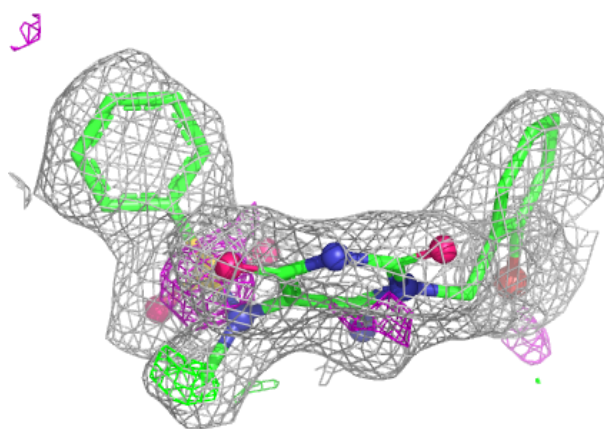


Electron density around P3I B 1294 (B):

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

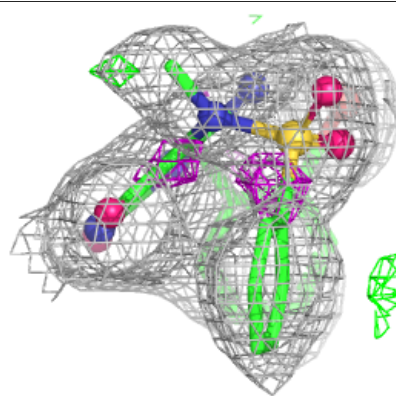
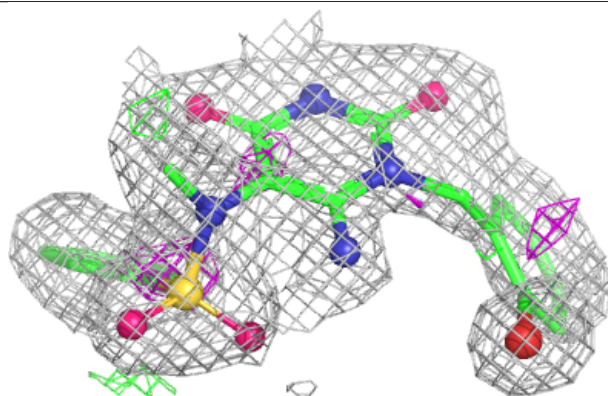
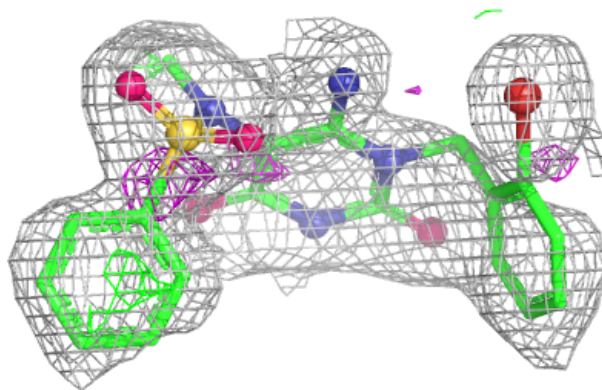
**Electron density around P3I B 1294 (A):**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

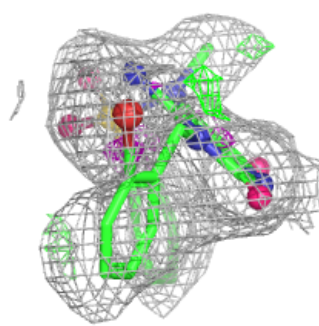
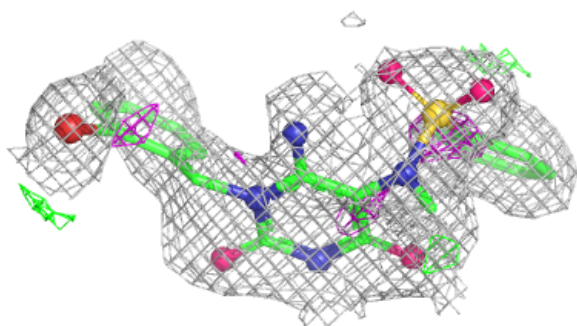
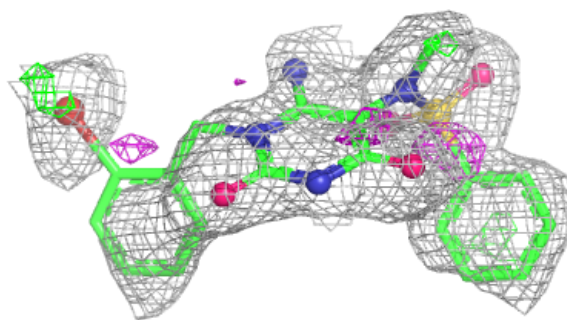


Electron density around P3I D 1294 (A):

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and green (positive)

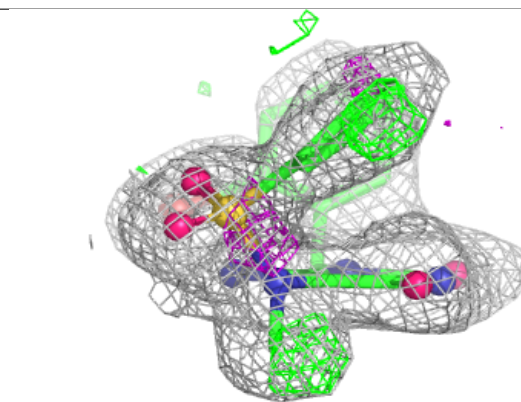
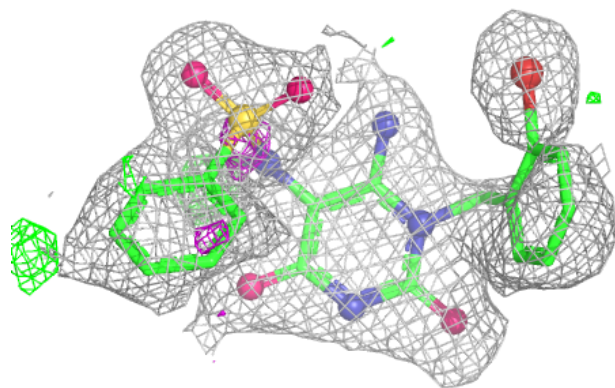
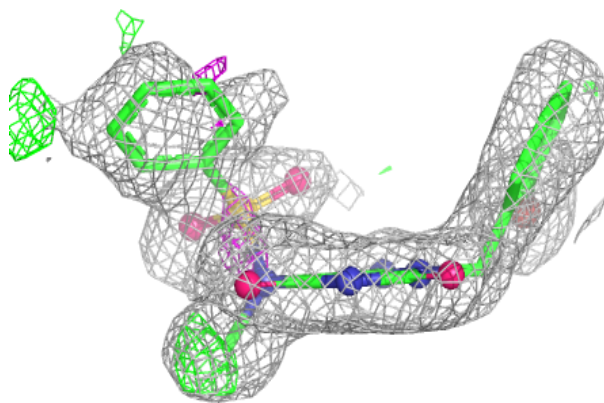
**Electron density around P3I D 1294 (B):**

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

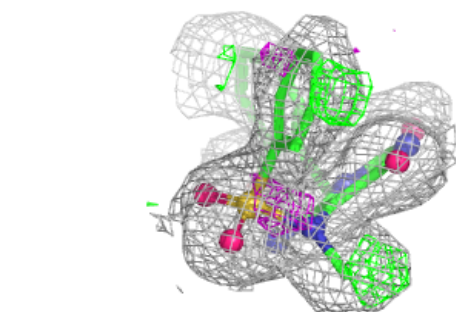
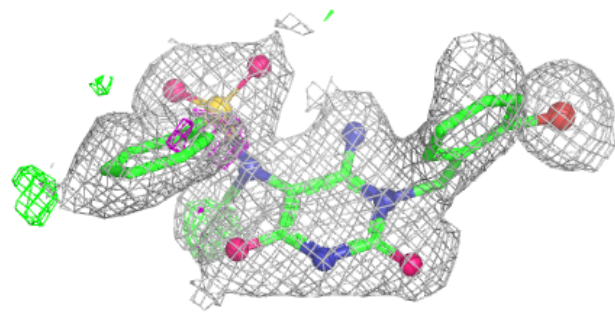
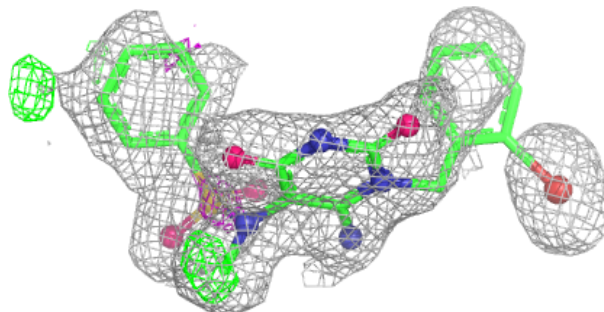


Electron density around P3I A 1294 (A):

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

**Electron density around P3I A 1294 (B):**

$2mF_o-DF_c$ (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.