



# wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 6, 2022 – 06:29 PM EDT

PDB ID : 5SIU  
Title : Crystal Structure of human phosphodiesterase 10 in complex with 3-[2-(6,8-dichloro-5-methyl-[1,2,4]triazolo[1,5-a]pyridin-2-yl)ethyl]-1H-quinoxalin-2-one  
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Deposited on : 2022-02-01  
Resolution : 2.01 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](mailto: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>.

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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)  
Xtrriage (Phenix) : 1.13  
EDS : 2.31.2  
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) : 2.31.2

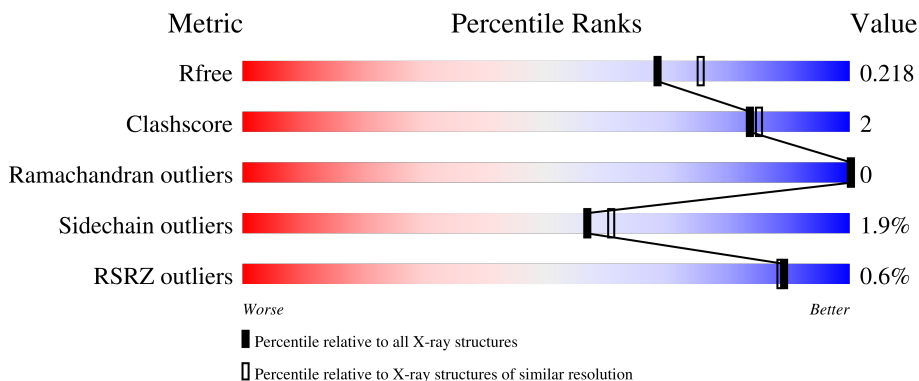
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*


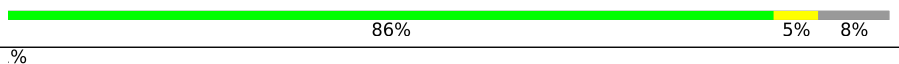
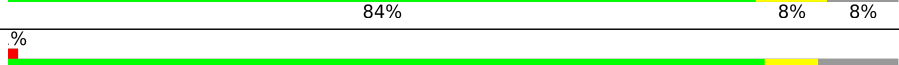

The reported resolution of this entry is 2.01 Å.

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))
$R_{free}$	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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  $\geq 3$ , 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	343	 83% 8% 9%
1	B	343	 86% 5% 8%
1	C	343	 84% 8% 8%
1	D	343	 85% 6% 9%

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10790 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
			Total	C	N	O	S			
1	A	313	2555	1633	435	463	24	0	3	0
1	B	315	2571	1642	438	467	24	0	3	0
1	C	314	2561	1636	437	464	24	0	2	0
1	D	312	2532	1619	432	457	24	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	447	GLY	-	expression tag	UNP Q9Y233
A	448	SER	-	expression tag	UNP Q9Y233
B	447	GLY	-	expression tag	UNP Q9Y233
B	448	SER	-	expression tag	UNP Q9Y233
C	447	GLY	-	expression tag	UNP Q9Y233
C	448	SER	-	expression tag	UNP Q9Y233
D	447	GLY	-	expression tag	UNP Q9Y233
D	448	SER	-	expression tag	UNP Q9Y233

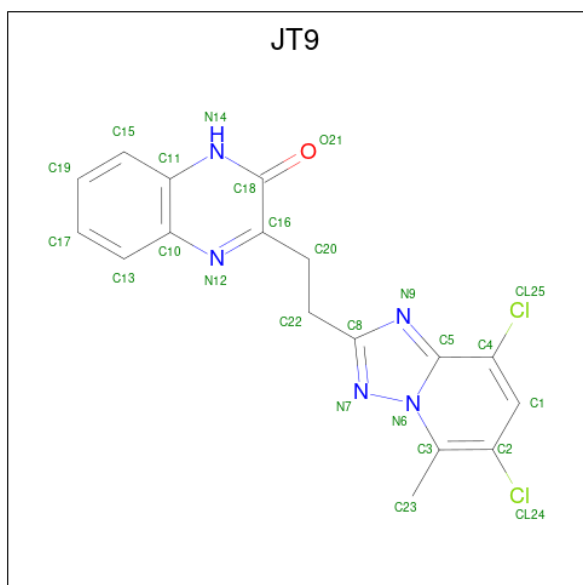
- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total 1	Zn 1	0	0
2	B	1	Total 1	Zn 1	0	0
2	C	1	Total 1	Zn 1	0	0
2	D	1	Total 1	Zn 1	0	0

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mg	0	0
			1	1		
3	B	1	Total	Mg	0	0
			1	1		
3	C	1	Total	Mg	0	0
			1	1		
3	D	1	Total	Mg	0	0
			1	1		

- Molecule 4 is 3-{2-[(4S)-6,8-dichloro-5-methyl[1,2,4]triazolo[1,5-a]pyridin-2-yl]ethyl}quin oxalin-2(1H)-one (three-letter code: JT9) (formula: C<sub>17</sub>H<sub>13</sub>Cl<sub>2</sub>N<sub>5</sub>O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	Cl	N	O	0	0
			25	17	2	5	1		
4	B	1	Total	C	Cl	N	O	0	0
			25	17	2	5	1		
4	C	1	Total	C	Cl	N	O	0	0
			25	17	2	5	1		
4	D	1	Total	C	Cl	N	O	0	0
			25	17	2	5	1		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	114	Total 114	O 114	0	0
5	B	142	Total 142	O 142	0	0
5	C	129	Total 129	O 129	0	0
5	D	78	Total 78	O 78	0	0



THR  
TRP  
ILE  
SER  
SER  
PRO  
SER  
VAL  
ALA  
GLN  
LYS  
ALA  
ALA  
ALA  
SER  
GLU  
ASP

## 4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	135.14Å 135.14Å 235.37Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	43.67 – 2.01 43.67 – 2.01	Depositor EDS
% Data completeness (in resolution range)	96.9 (43.67-2.01) 96.9 (43.67-2.01)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.47 (at 2.01Å)	Xtrriage
Refinement program	REFMAC 5.8.0258	Depositor
R, $R_{free}$	0.170 , 0.212 0.178 , 0.218	Depositor DCC
$R_{free}$ test set	5331 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	33.1	Xtrriage
Anisotropy	0.140	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 41.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.025 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	10790	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	41.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.58% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: MG, JT9, CME, ZN

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	0.75	1/2615 (0.0%)	0.84	1/3537 (0.0%)
1	B	0.72	1/2631 (0.0%)	0.83	1/3559 (0.0%)
1	C	0.73	1/2618 (0.0%)	0.83	3/3541 (0.1%)
1	D	0.73	1/2583 (0.0%)	0.81	1/3495 (0.0%)
All	All	0.73	4/10447 (0.0%)	0.83	6/14132 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	470	LYS	CE-NZ	-6.21	1.33	1.49
1	D	470	LYS	CE-NZ	-6.16	1.33	1.49
1	B	470	LYS	CE-NZ	-6.15	1.33	1.49
1	A	470	LYS	CE-NZ	-6.12	1.33	1.49

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	470	LYS	CD-CE-NZ	6.68	127.06	111.70
1	A	470	LYS	CD-CE-NZ	6.30	126.19	111.70
1	C	510	ARG	NE-CZ-NH1	6.25	123.42	120.30
1	C	470	LYS	CD-CE-NZ	6.08	125.69	111.70
1	D	470	LYS	CD-CE-NZ	5.93	125.34	111.70

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	2555	0	2534	11	0
1	B	2571	0	2549	17	0
1	C	2561	0	2537	14	0
1	D	2532	0	2507	9	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	25	0	0	0	0
4	B	25	0	0	0	0
4	C	25	0	0	1	0
4	D	25	0	0	0	0
5	A	114	0	0	1	0
5	B	142	0	0	1	0
5	C	129	0	0	1	0
5	D	78	0	0	0	0
All	All	10790	0	10127	49	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 2.

The worst 5 of 49 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:470:LYS:HE2	1:D:746:PRO:HG3	1.59	0.83
1:B:727:LEU:HD12	1:B:759:LEU:HD11	1.81	0.61
1:B:497:SER:O	1:B:553:ARG:HD2	2.00	0.61
1:D:492:TYR:CZ	1:D:496:ARG:HD2	2.39	0.57
1:B:727:LEU:CD1	1:B:759:LEU:HD11	2.35	0.56

There are no symmetry-related clashes.

## 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	A	313/343 (91%)	308 (98%)	5 (2%)	0	100	100
1	B	315/343 (92%)	311 (99%)	4 (1%)	0	100	100
1	C	313/343 (91%)	310 (99%)	3 (1%)	0	100	100
1	D	309/343 (90%)	300 (97%)	9 (3%)	0	100	100
All	All	1250/1372 (91%)	1229 (98%)	21 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 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	A	284/305 (93%)	275 (97%)	9 (3%)	39	38
1	B	286/305 (94%)	282 (99%)	4 (1%)	67	72
1	C	284/305 (93%)	279 (98%)	5 (2%)	59	63
1	D	280/305 (92%)	276 (99%)	4 (1%)	67	72
All	All	1134/1220 (93%)	1112 (98%)	22 (2%)	57	61

5 of 22 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	616	SER
1	C	647	GLU
1	C	638	TYR

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Mol	Chain	Res	Type
1	D	500	THR
1	A	760[A]	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	743	GLN
1	D	731	ASN
1	C	604	GLN
1	D	609	ASN
1	C	542	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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	CME	A	509	1	8,9,10	0.43	0	5,9,11	0.70	0
1	CME	D	509	1	8,9,10	0.46	0	5,9,11	0.42	0
1	CME	B	509	1	8,9,10	0.42	0	5,9,11	0.56	0
1	CME	C	509	1	8,9,10	0.46	0	5,9,11	0.37	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
1	CME	A	509	1	-	2/5/8/10	-
1	CME	D	509	1	-	1/5/8/10	-
1	CME	B	509	1	-	2/5/8/10	-
1	CME	C	509	1	-	1/5/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	509	CME	SD-CE-CZ-OH
1	B	509	CME	SD-CE-CZ-OH
1	C	509	CME	SD-CE-CZ-OH
1	D	509	CME	SD-CE-CZ-OH
1	A	509	CME	CE-SD-SG-CB

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 8 are monoatomic - leaving 4 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	$\# Z  > 2$
4	JT9	C	803	-	22,28,28	0.66	1 (4%)	24,41,41	1.60	5 (20%)
4	JT9	A	803	-	22,28,28	0.75	0	24,41,41	1.42	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	JT9	B	803	-	22,28,28	0.81	1 (4%)	24,41,41	1.55	2 (8%)
4	JT9	D	803	-	22,28,28	0.63	0	24,41,41	1.81	6 (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
4	JT9	C	803	-	-	2/5/5/5	0/4/4/4
4	JT9	A	803	-	-	2/5/5/5	0/4/4/4
4	JT9	B	803	-	-	3/5/5/5	0/4/4/4
4	JT9	D	803	-	-	2/5/5/5	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	803	JT9	C1-C4	-2.51	1.31	1.36
4	B	803	JT9	C1-C4	-2.26	1.32	1.36

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	803	JT9	C1-C2-C3	5.93	124.31	120.46
4	A	803	JT9	C1-C2-C3	5.17	123.82	120.46
4	C	803	JT9	C1-C2-C3	5.17	123.82	120.46
4	D	803	JT9	C1-C4-C5	5.05	124.50	120.98
4	D	803	JT9	C5-C4-CL25	-3.53	115.73	118.97

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

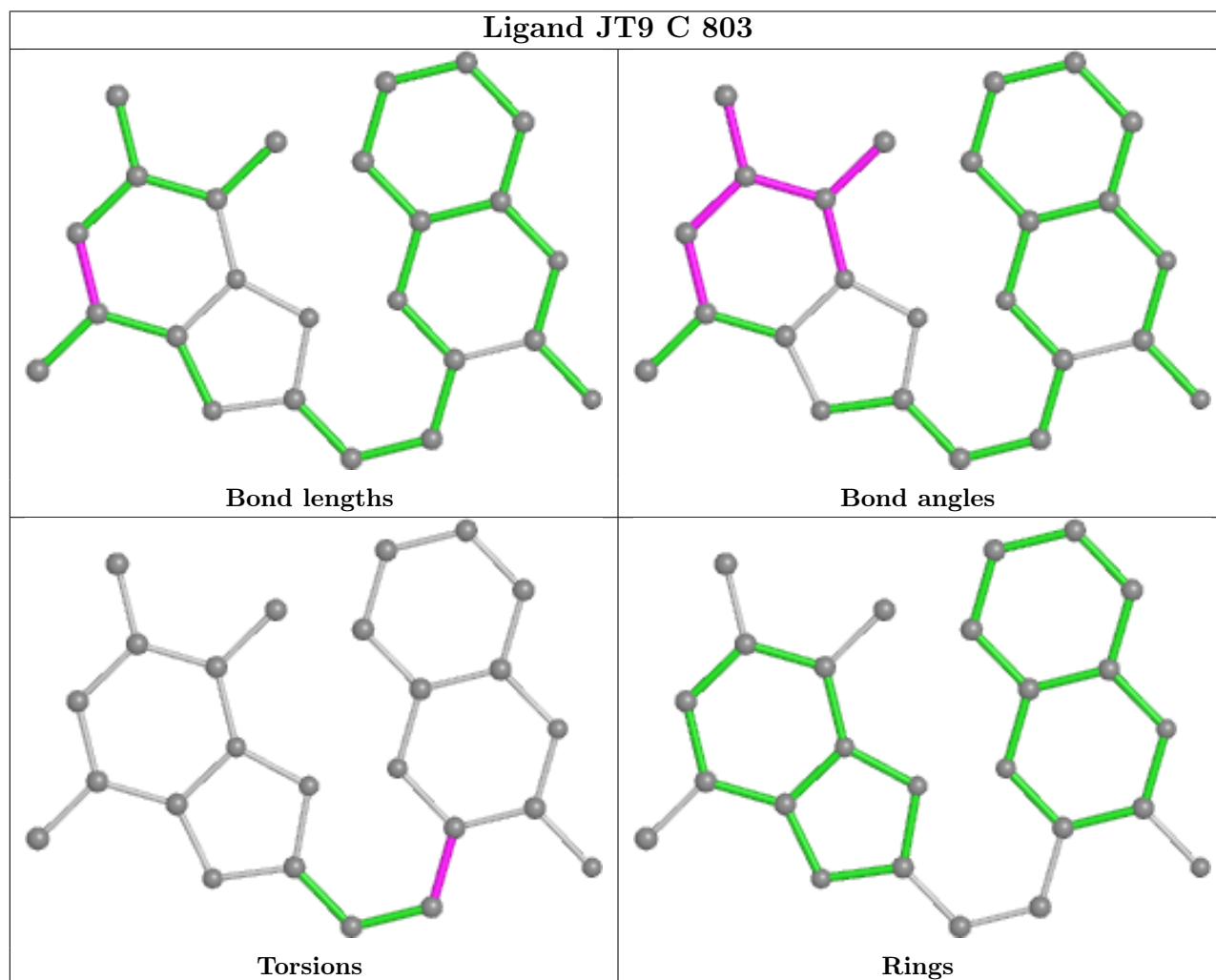
Mol	Chain	Res	Type	Atoms
4	A	803	JT9	C18-C16-C20-C22
4	A	803	JT9	N12-C16-C20-C22
4	B	803	JT9	C18-C16-C20-C22
4	C	803	JT9	C18-C16-C20-C22
4	C	803	JT9	N12-C16-C20-C22

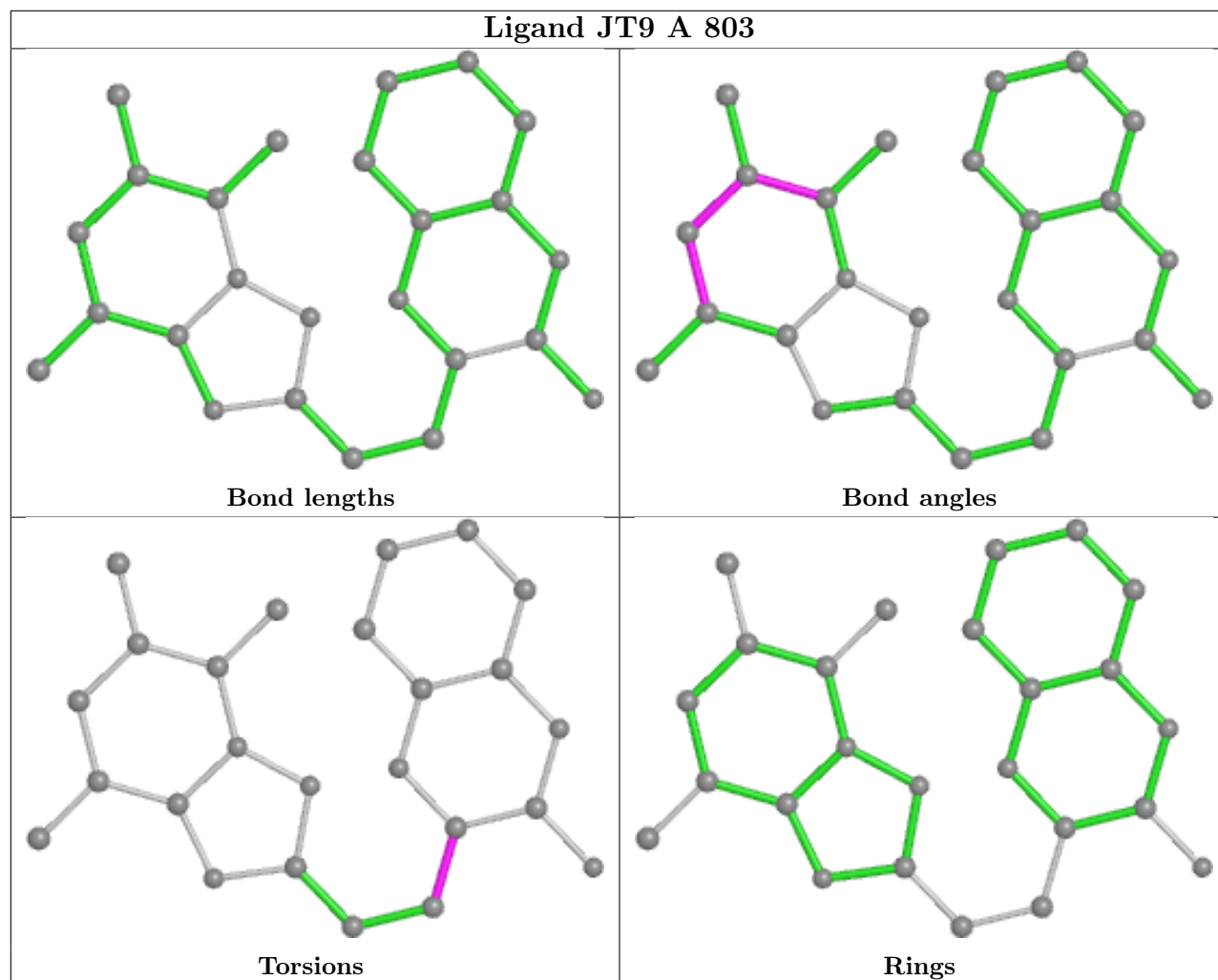
There are no ring outliers.

1 monomer is involved in 1 short contact:

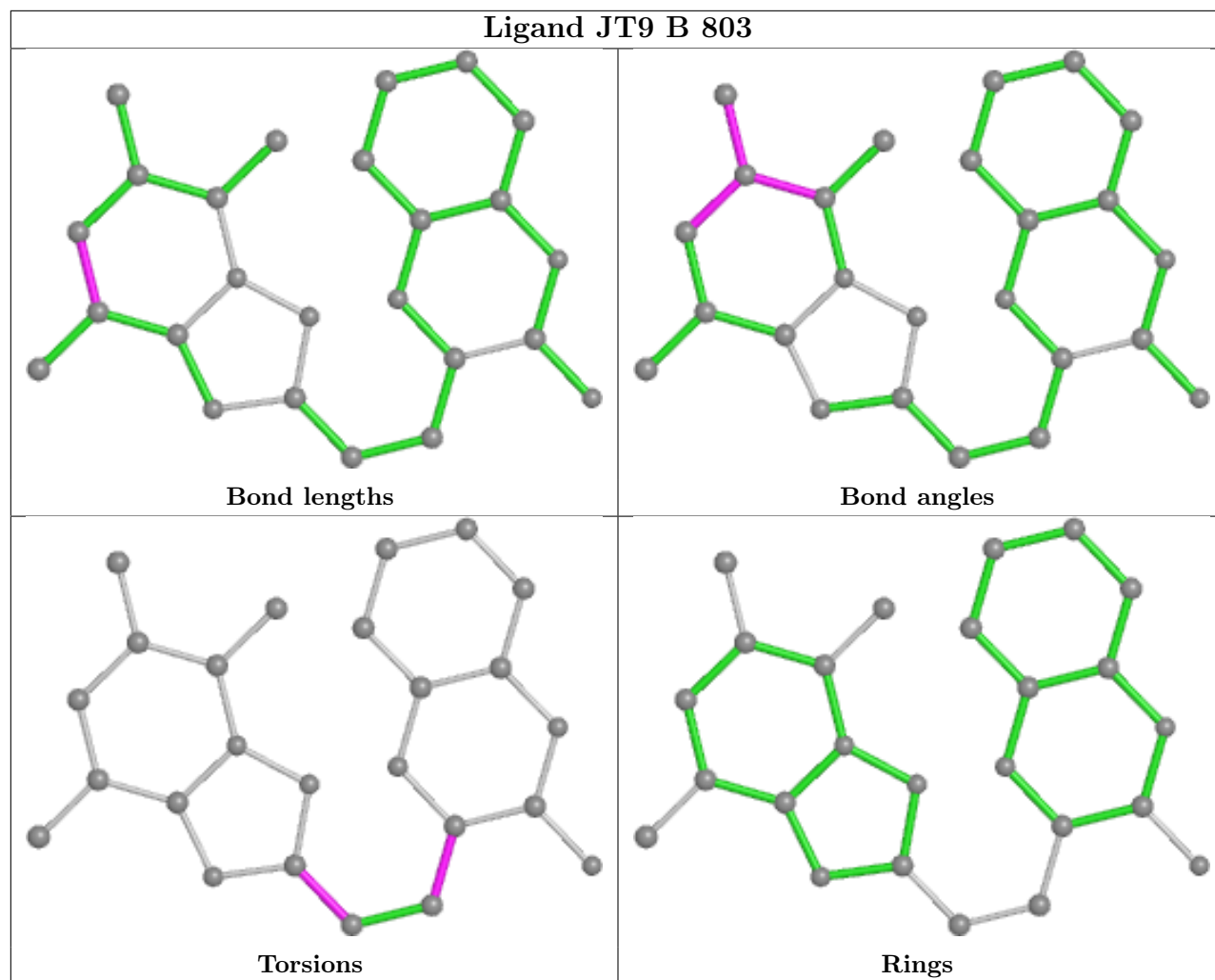
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	803	JT9	1	0

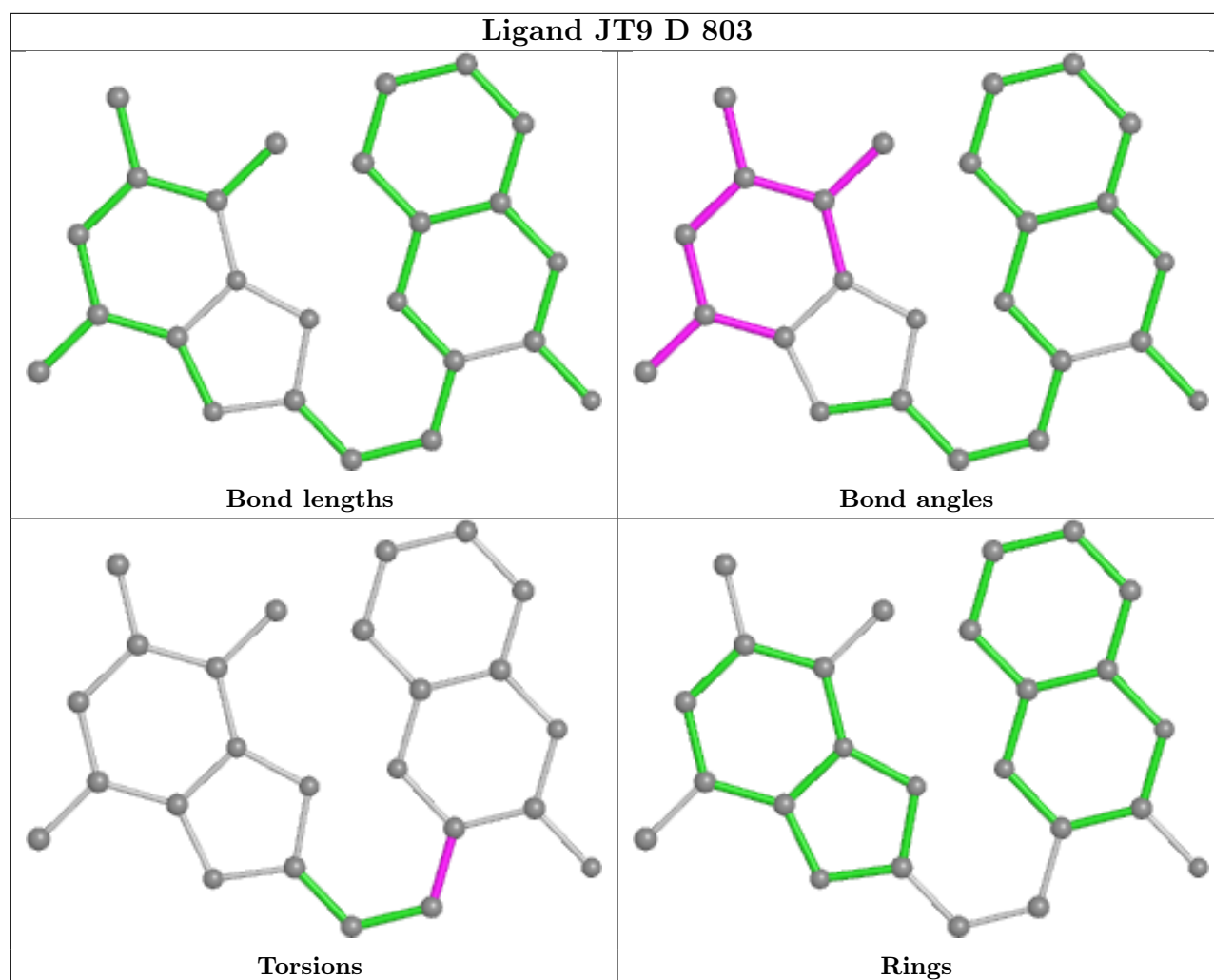
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.











## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	312/343 (90%)	-0.35	0 <b>100</b> <b>100</b>	25, 36, 63, 93	0
1	B	314/343 (91%)	-0.26	1 (0%) <b>94</b> <b>93</b>	24, 34, 60, 100	0
1	C	313/343 (91%)	-0.51	3 (0%) <b>82</b> <b>81</b>	25, 36, 58, 118	0
1	D	311/343 (90%)	-0.26	4 (1%) <b>77</b> <b>76</b>	31, 44, 67, 104	0
All	All	1250/1372 (91%)	-0.35	8 (0%) <b>89</b> <b>88</b>	24, 38, 64, 118	0

The worst 5 of 8 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	457	GLN	5.5
1	B	771	THR	3.4
1	C	769	GLU	3.0
1	D	765	VAL	2.6
1	D	457	GLN	2.5

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	CME	A	509	10/11	0.89	0.12	43,54,83,94	0
1	CME	D	509	10/11	0.91	0.16	38,58,103,103	0
1	CME	C	509	10/11	0.93	0.12	37,46,83,84	0
1	CME	B	509	10/11	0.93	0.14	35,51,84,99	0

### 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 6.4 Ligands [i](#)

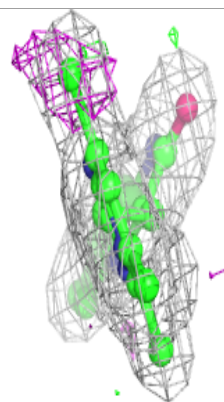
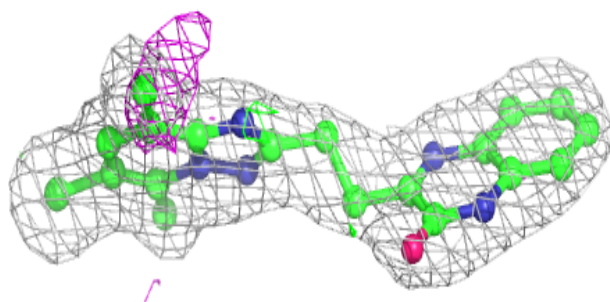
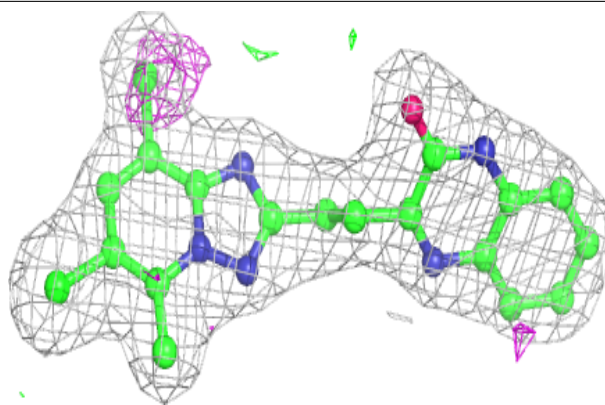
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	JT9	B	803	25/25	0.95	0.12	30,36,40,57	0
4	JT9	A	803	25/25	0.96	0.10	29,34,37,57	0
4	JT9	D	803	25/25	0.96	0.10	35,42,48,68	0
4	JT9	C	803	25/25	0.97	0.11	31,38,45,65	0
3	MG	D	802	1/1	0.97	0.06	32,32,32,32	0
3	MG	C	802	1/1	0.99	0.08	27,27,27,27	0
3	MG	A	802	1/1	0.99	0.07	27,27,27,27	0
3	MG	B	802	1/1	0.99	0.11	24,24,24,24	0
2	ZN	A	801	1/1	1.00	0.09	31,31,31,31	0
2	ZN	B	801	1/1	1.00	0.10	29,29,29,29	0
2	ZN	C	801	1/1	1.00	0.08	31,31,31,31	0
2	ZN	D	801	1/1	1.00	0.07	36,36,36,36	0

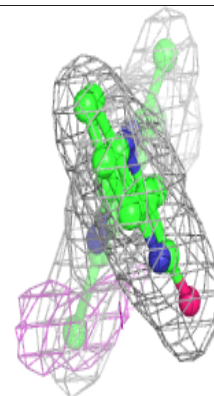
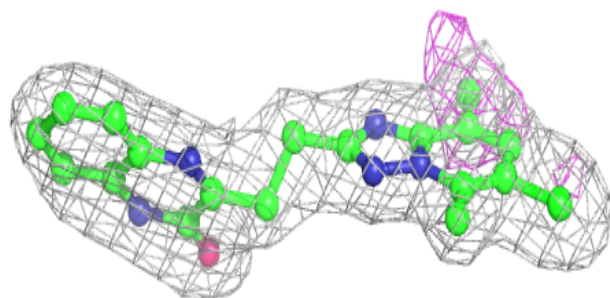
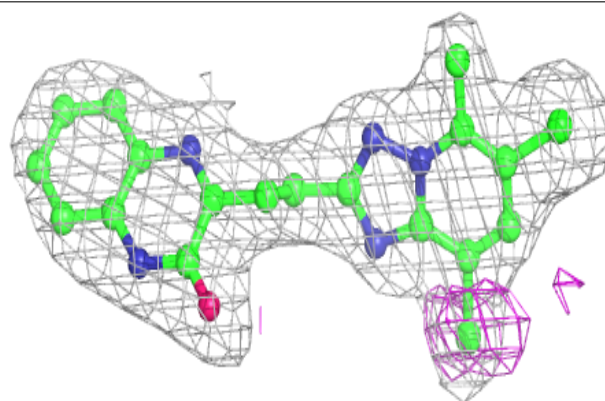
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

**Electron density around JT9 B 803:**

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

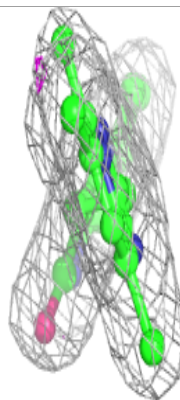
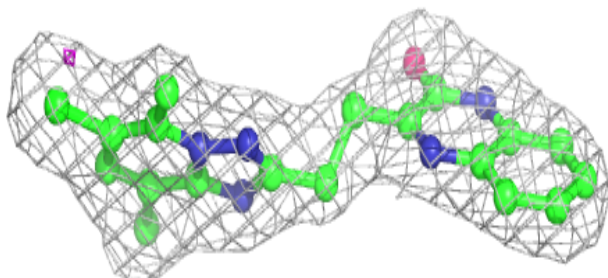
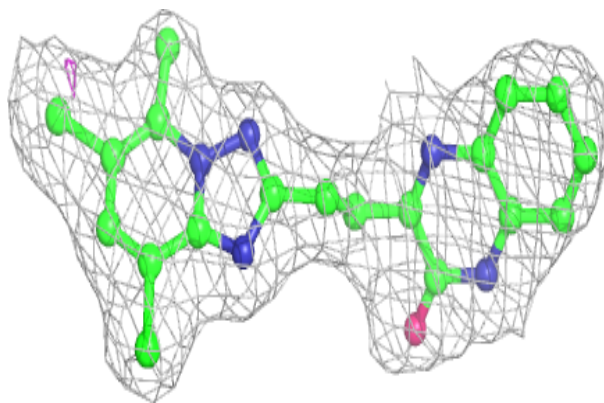
**Electron density around JT9 A 803:**

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

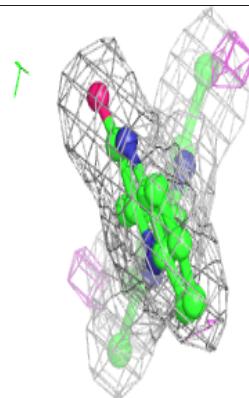
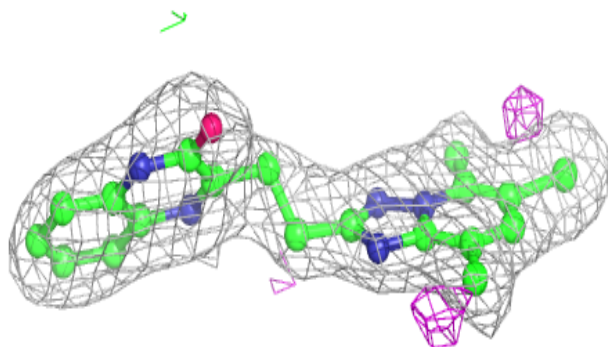
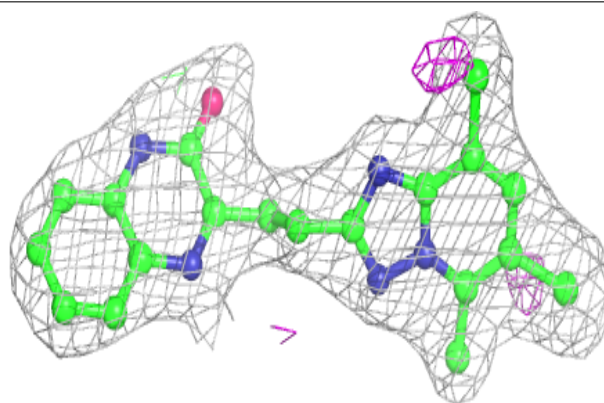


**Electron density around JT9 D 803:**

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

**Electron density around JT9 C 803:**

$2mF_o-DF_c$  (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.