



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 17, 2024 – 03:03 PM EST

PDB ID : 3SNI
Title : Highly Potent, Selective, and Orally Active Phosphodiesterase 10A Inhibitors
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Deposited on : 2011-06-29
Resolution : 1.90 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](#) ①) 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 : 2.36
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

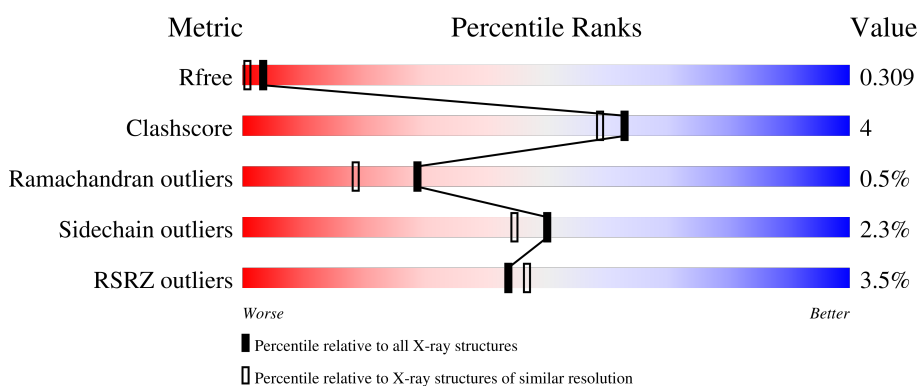
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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	345	 2% 81% 11% 7%
1	B	345	 4% 78% 12% 10%

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 5468 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	322	2623	1676	445	477	25	0	2	0
1	B	310	2530	1611	431	463	25	0	2	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	435	GLY	-	expression tag	UNP Q9Y233
A	436	SER	-	expression tag	UNP Q9Y233
A	437	HIS	-	expression tag	UNP Q9Y233
A	438	MET	-	expression tag	UNP Q9Y233
B	435	GLY	-	expression tag	UNP Q9Y233
B	436	SER	-	expression tag	UNP Q9Y233
B	437	HIS	-	expression tag	UNP Q9Y233
B	438	MET	-	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	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		

- 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		

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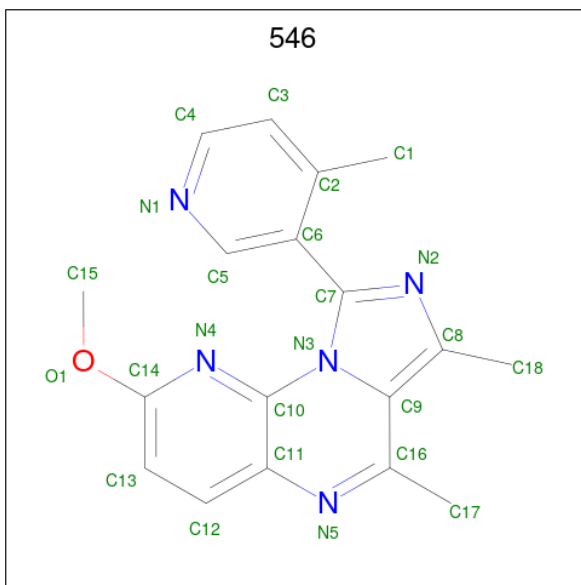
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Mg	0	0
			1	1		

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 5 is 2-methoxy-6,7-dimethyl-9-(4-methylpyridin-3-yl)imidazo[1,5-a]pyrido[3,2-e]pyrazine (three-letter code: 546) (formula: C₁₈H₁₇N₅O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			24	18	5	1		
5	B	1	Total	C	N	O	0	0
			24	18	5	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	150	Total	O	0	0
			150	150		

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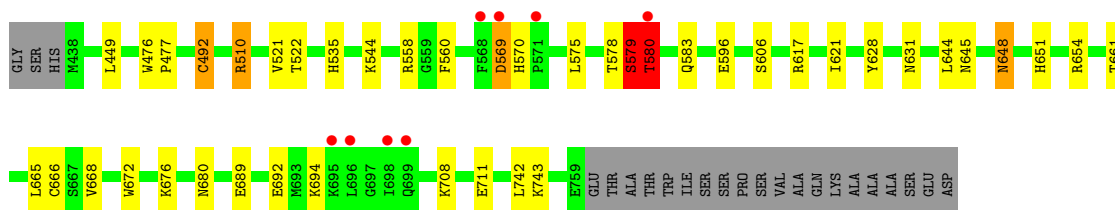
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	111	Total 111	O 111	0	0

3 Residue-property plots [i](#)


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.

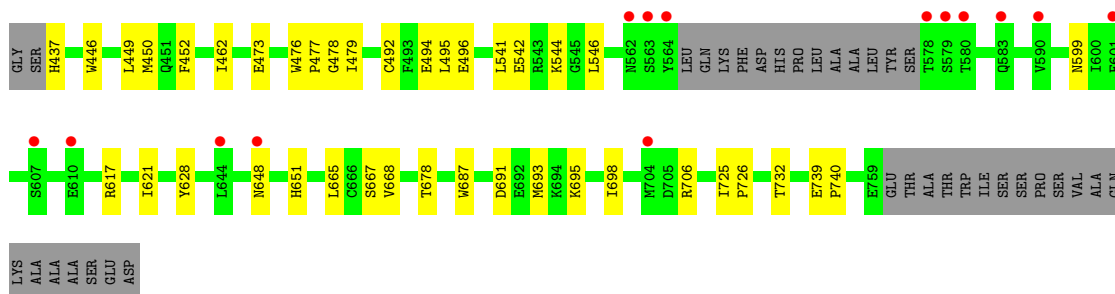
- Molecule 1: cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A

Chain A: 



- Molecule 1: cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.24Å 81.34Å 157.41Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.74 – 1.90 48.73 – 1.90	Depositor EDS
% Data completeness (in resolution range)	59.8 (48.74-1.90) 59.8 (48.73-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.07 (at 1.90Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.247 , 0.319 0.240 , 0.309	Depositor DCC
R_{free} test set	1589 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	30.8	Xtrriage
Anisotropy	0.096	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 38.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5468	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.34% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, MG, CL, 546

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	0.36	0/2687	0.53	2/3638 (0.1%)
1	B	0.36	0/2590	0.48	0/3504
All	All	0.36	0/5277	0.50	2/7142 (0.0%)

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	A	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	580	THR	N-CA-C	-5.55	96.01	111.00
1	A	579	SER	C-N-CA	5.12	134.50	121.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	579	SER	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2623	0	2586	23	0
1	B	2530	0	2487	19	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	1
5	A	24	0	17	1	0
5	B	24	0	17	1	0
6	A	150	0	0	4	1
6	B	111	0	0	1	0
All	All	5468	0	5107	44	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 4.

All (44) 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:606:SER:HB2	6:A:215:HOH:O	1.95	0.67
5:A:782:546:H17	5:A:782:546:H18	1.76	0.66
5:B:782:546:H18	5:B:782:546:H17	1.83	0.61
1:B:473:GLU:HA	1:B:476:TRP:CE2	2.38	0.58
1:B:691:ASP:O	1:B:695:LYS:HG2	2.03	0.58
1:A:665:LEU:O	1:A:668:VAL:HG22	2.04	0.58
1:B:648:ASN:HB3	1:B:651:HIS:HD2	1.69	0.56
1:B:725:ILE:HB	1:B:726:PRO:HD3	1.88	0.55
1:A:672:TRP:CZ2	1:A:676:LYS:HD3	2.42	0.55
1:B:693:MET:HB3	1:B:698:ILE:HB	1.88	0.55
1:A:694:LYS:HA	6:A:73:HOH:O	2.08	0.53
1:B:617:ARG:O	1:B:621:ILE:HG12	2.09	0.52
1:A:579:SER:N	1:A:580:THR:OG1	2.43	0.52
1:A:510:ARG:HH11	1:A:558:ARG:HG3	1.74	0.51
1:A:492:CYS:SG	1:A:544:LYS:HE2	2.51	0.51
1:B:687:TRP:HB3	1:B:706:ARG:HB3	1.94	0.50
1:B:450:MET:HG2	1:B:495:LEU:HG	1.95	0.49
1:B:541:LEU:HD23	1:B:544:LYS:HE3	1.94	0.49
1:A:522:THR:HG22	1:A:666:CYS:SG	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:560:PHE:HD2	1:A:689:GLU:HG3	1.78	0.49
1:B:542:GLU:O	1:B:546:LEU:HG	2.12	0.48
1:A:578:THR:O	1:A:583:GLN:NE2	2.47	0.48
1:A:449:LEU:HD13	1:A:477:PRO:HB2	1.96	0.48
1:A:692:GLU:HG2	6:A:120:HOH:O	2.13	0.48
1:B:667:SER:HB3	1:B:678:THR:HG21	1.95	0.47
1:B:449:LEU:HD13	1:B:477:PRO:HB2	1.96	0.47
1:A:648:ASN:HD22	1:A:648:ASN:C	2.18	0.46
1:B:732:THR:HG21	1:B:739:GLU:HG2	1.98	0.45
1:A:631:ASN:HD22	1:A:654:ARG:HH11	1.64	0.45
1:A:617:ARG:O	1:A:621:ILE:HG12	2.17	0.45
1:B:437:HIS:N	6:B:56:HOH:O	2.49	0.45
1:A:535:HIS:HD2	6:A:34:HOH:O	1.98	0.44
1:B:452:PHE:CD2	1:B:478:GLY:HA3	2.53	0.44
1:B:665:LEU:O	1:B:668:VAL:HG22	2.18	0.43
1:A:645:ASN:H	1:A:651:HIS:CD2	2.36	0.43
1:A:645:ASN:H	1:A:651:HIS:HD2	1.64	0.43
1:B:462:ILE:HD11	1:B:479:ILE:HG23	2.01	0.42
1:A:628:TYR:CD1	1:A:661:THR:HG21	2.54	0.42
1:A:708:LYS:HD3	1:A:711:GLU:OE2	2.19	0.42
1:A:644:LEU:HA	1:A:651:HIS:HD2	1.84	0.42
1:B:446:TRP:CZ3	1:B:496:GLU:HG3	2.54	0.42
1:B:739:GLU:N	1:B:740:PRO:CD	2.83	0.42
1:A:579:SER:O	1:A:579:SER:OG	2.35	0.41
1:A:476:TRP:HB3	1:A:521:VAL:HG21	2.03	0.41

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)
4:B:1:CL:CL	6:A:215:HOH:O[1_545]	1.92	0.28

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	322/345 (93%)	310 (96%)	9 (3%)	3 (1%)	17	7
1	B	308/345 (89%)	300 (97%)	8 (3%)	0	100	100
All	All	630/690 (91%)	610 (97%)	17 (3%)	3 (0%)	29	18

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	580	THR
1	A	569	ASP
1	A	570	HIS

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	292/308 (95%)	283 (97%)	9 (3%)	40	32
1	B	283/308 (92%)	279 (99%)	4 (1%)	67	65
All	All	575/616 (93%)	562 (98%)	13 (2%)	50	45

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	492	CYS
1	A	510	ARG
1	A	569	ASP
1	A	575	LEU
1	A	596	GLU
1	A	648	ASN
1	A	680	ASN
1	A	742	LEU
1	A	743	LYS
1	B	492	CYS

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Mol	Chain	Res	Type
1	B	494	GLU
1	B	599	ASN
1	B	628	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	535	HIS
1	A	588	GLN
1	A	631	ASN
1	A	645	ASN
1	A	648	ASN
1	A	651	HIS
1	A	680	ASN
1	A	751	GLN
1	B	599	ASN
1	B	631	ASN
1	B	645	ASN
1	B	649	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](#)

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 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
5	546	B	782	-	21,27,27	1.74	6 (28%)	24,40,40	0.90	2 (8%)
5	546	A	782	-	21,27,27	1.71	5 (23%)	24,40,40	1.00	2 (8%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	546	B	782	-	-	5/6/6/6	0/4/4/4
5	546	A	782	-	-	5/6/6/6	0/4/4/4

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	782	546	C14-N4	4.48	1.36	1.30
5	A	782	546	C14-N4	4.47	1.36	1.30
5	B	782	546	C18-C8	-2.59	1.48	1.50
5	A	782	546	O1-C14	2.55	1.39	1.35
5	A	782	546	C18-C8	-2.54	1.48	1.50
5	B	782	546	O1-C14	2.54	1.39	1.35
5	A	782	546	C8-C9	-2.47	1.39	1.43
5	B	782	546	C11-N5	2.45	1.41	1.37
5	A	782	546	C11-N5	2.39	1.41	1.37
5	B	782	546	C8-C9	-2.34	1.39	1.43
5	B	782	546	C16-C9	2.16	1.46	1.43

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	782	546	N4-C10-N3	2.25	120.53	115.01
5	A	782	546	C13-C14-N4	-2.25	123.33	125.57
5	B	782	546	N4-C10-N3	2.18	120.36	115.01
5	B	782	546	C13-C14-N4	-2.17	123.41	125.57

There are no chirality outliers.

All (10) torsion outliers are listed below:

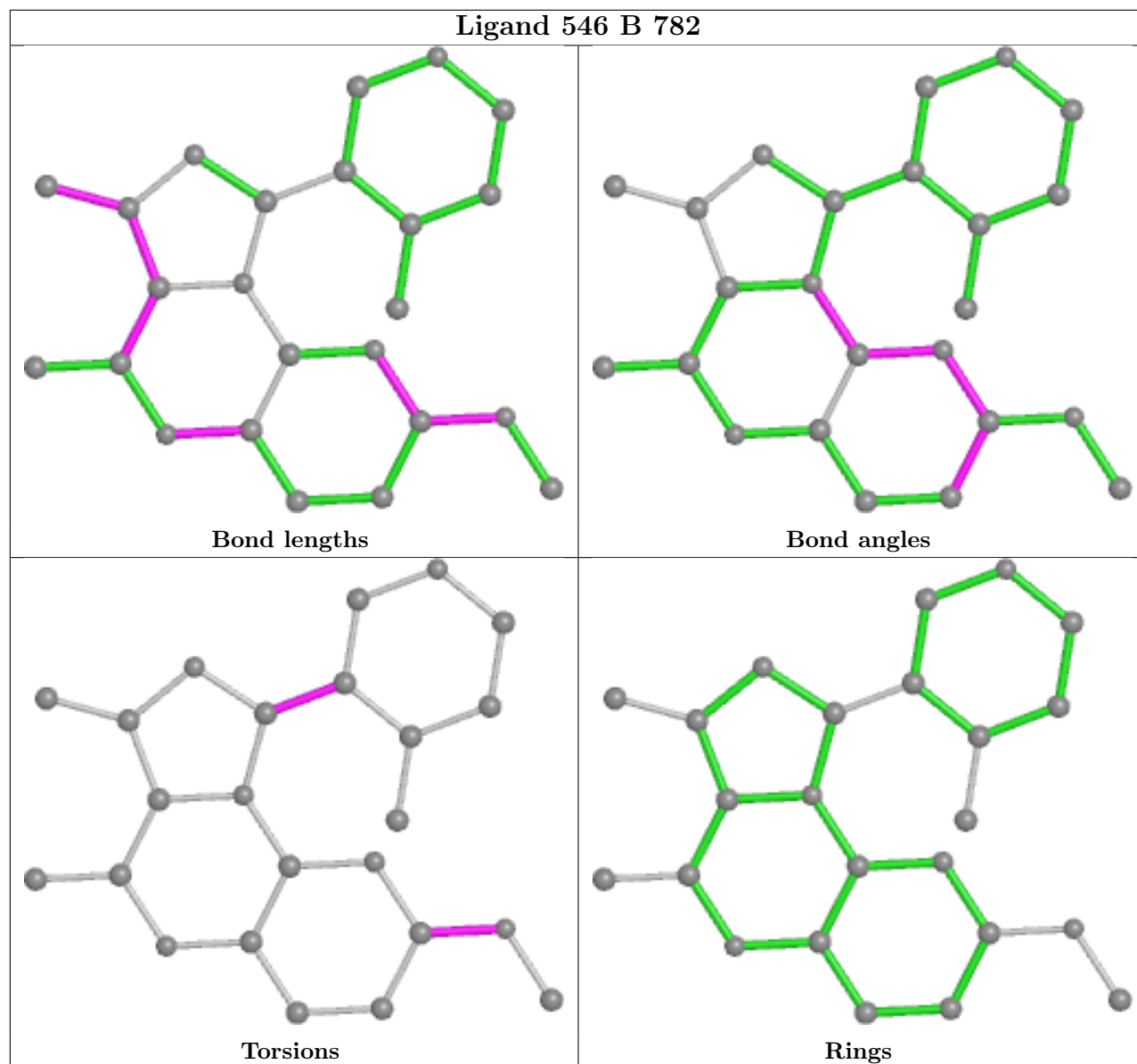
Mol	Chain	Res	Type	Atoms
5	A	782	546	C5-C6-C7-N3
5	B	782	546	N4-C14-O1-C15
5	B	782	546	C13-C14-O1-C15
5	A	782	546	C5-C6-C7-N2
5	B	782	546	C5-C6-C7-N2
5	A	782	546	C13-C14-O1-C15
5	A	782	546	N4-C14-O1-C15
5	B	782	546	C5-C6-C7-N3
5	A	782	546	C2-C6-C7-N2
5	B	782	546	C2-C6-C7-N2

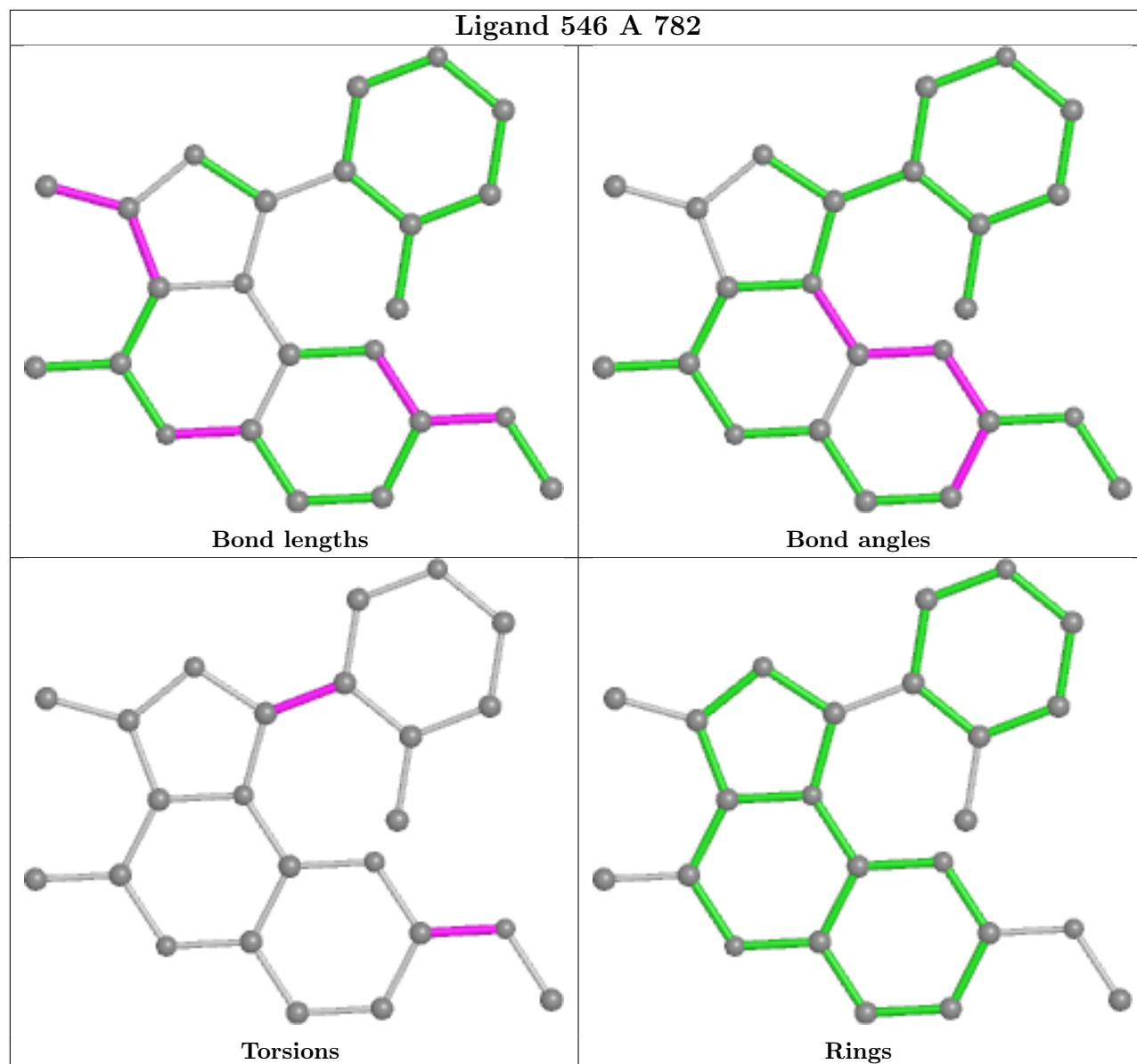
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	782	546	1	0
5	A	782	546	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

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	322/345 (93%)	0.32	8 (2%) 57 60	21, 32, 51, 54	0
1	B	310/345 (89%)	0.49	14 (4%) 33 36	25, 38, 59, 65	0
All	All	632/690 (91%)	0.40	22 (3%) 44 47	21, 35, 56, 65	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	696	LEU	6.3
1	B	562	ASN	5.4
1	A	698	ILE	4.5
1	A	568	PHE	4.5
1	A	569	ASP	4.4
1	B	579	SER	3.3
1	B	564	TYR	3.2
1	B	610	GLU	3.2
1	B	590	VAL	3.1
1	B	648	ASN	3.0
1	A	695	LYS	2.8
1	B	578	THR	2.8
1	B	704	MET	2.5
1	B	580	THR	2.5
1	A	699	GLN	2.5
1	B	563	SER	2.4
1	B	607	SER	2.3
1	A	580	THR	2.3
1	B	583	GLN	2.2
1	A	571	PRO	2.2
1	B	644	LEU	2.2
1	B	601	PHE	2.2

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 monosaccharides in this entry.

6.4 Ligands [i](#)

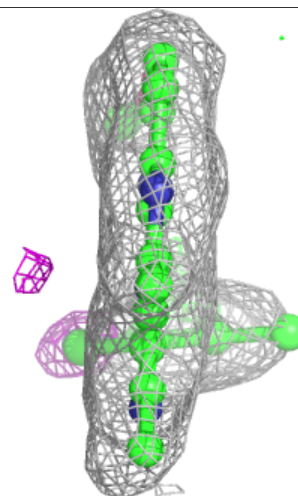
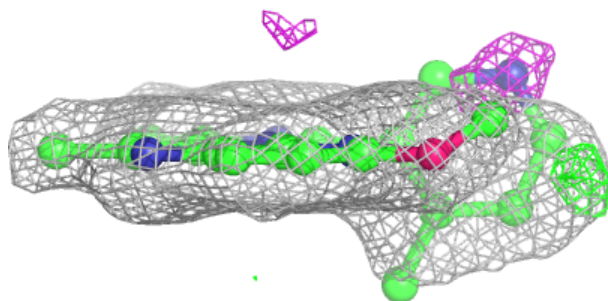
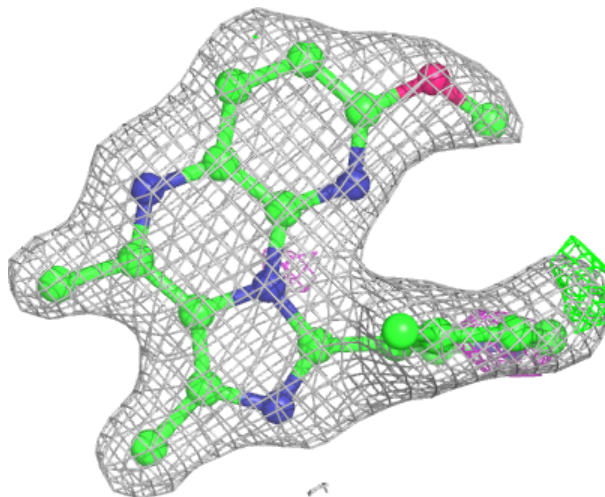
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

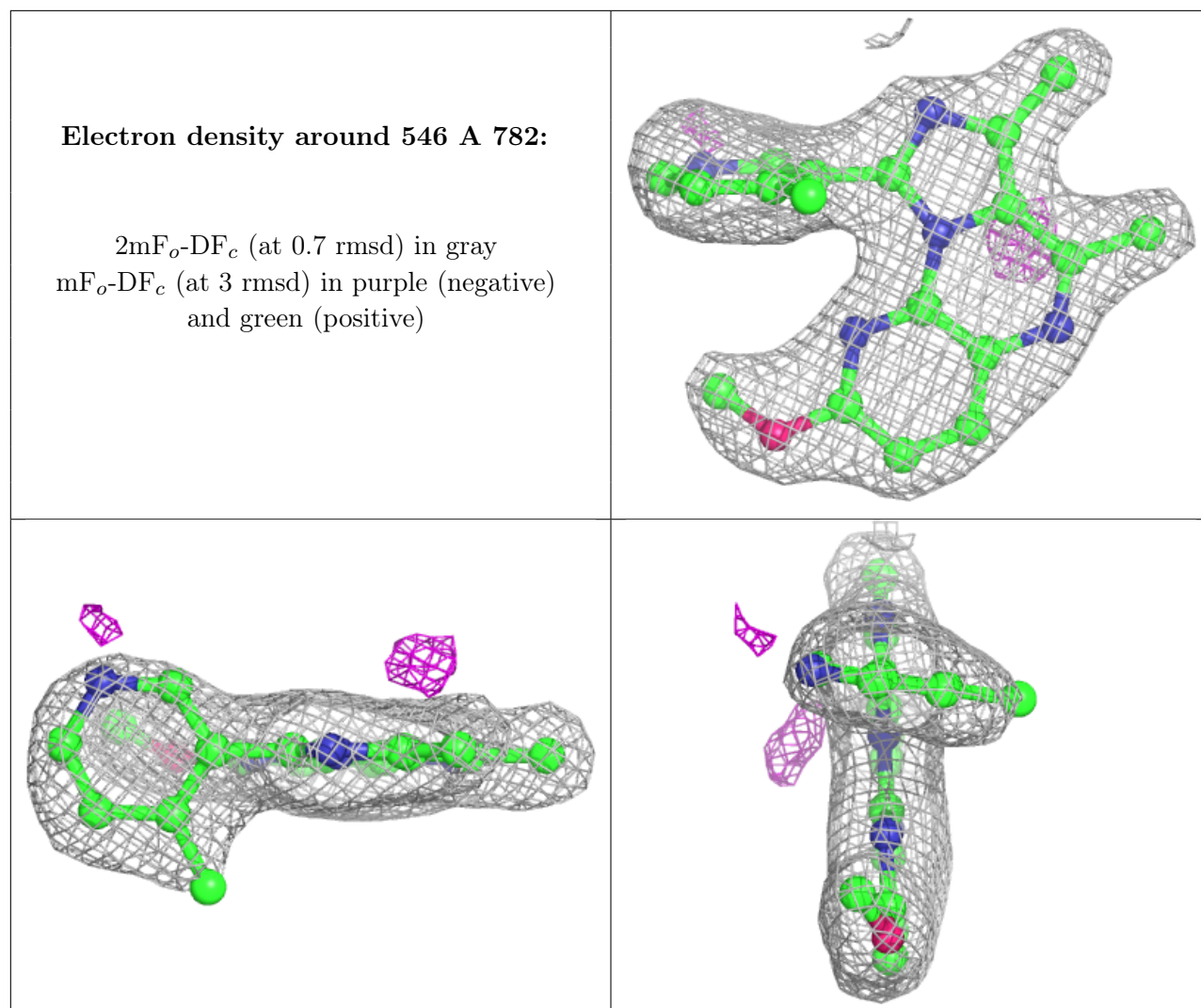
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	546	B	782	24/24	0.84	0.16	43,44,45,46	0
5	546	A	782	24/24	0.90	0.17	30,30,32,32	0
3	MG	B	781	1/1	0.97	0.11	32,32,32,32	0
3	MG	A	781	1/1	0.98	0.11	14,14,14,14	0
4	CL	A	1	1/1	0.98	0.24	34,34,34,34	0
4	CL	B	1	1/1	0.99	0.24	10,10,10,10	0
2	ZN	B	780	1/1	0.99	0.11	34,34,34,34	0
2	ZN	A	780	1/1	0.99	0.14	34,34,34,34	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 546 B 782:

$2mF_o-DF_c$ (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.