

wwPDB X-ray Structure Validation Summary Report (i)

Oct 6, 2022 – 06:17 PM EDT

PDB ID	:	5SGH
Title	:	Crystal Structure of human phosphodiesterase 10 in complex with 4-[1-methy
		l-6-[(1-methyl-4-phenylimidazol-2-yl)methoxy]pyrazolo[3,4-d]pyrimidin-4-yl]m
		orpholine
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Deposited on		
Resolution	:	1.97 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 (i) 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 (i)) were used in the production of this report:

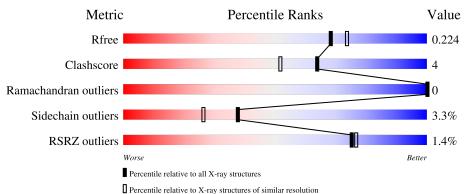
MalDuchitz		4 091 467
MolProbity		
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.31.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 1.97 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	11647 (2.00-1.96)
Clashscore	141614	1014 (1.98-1.98)
Ramachandran outliers	138981	1006 (1.98-1.98)
Sidechain outliers	138945	1006 (1.98-1.98)
RSRZ outliers	127900	11410 (2.00-1.96)

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	А	343	% 82% 8% •	9%
1	В	343	.% 81% 10% •	8%
1	С	343	83% 7% •	9%
1	D	343	2% 80% 9% •	10%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 10925 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	Λ	313	Total	С	Ν	0	S	0	1	0
	А	515	2549	1629	435	461	24	0		
1	р	315	Total	С	Ν	0	S	0	1	0
	D	315	2559	1635	437	463	24	0	1	0
1	С	313	Total	С	Ν	0	S	0	2	0
	C	515	2557	1634	438	461	24	0	2	0
1	р	210	Total	С	Ν	0	S	0	0	0
	D	310	2519	1612	429	454	24	U	U	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	447	GLY	-	expression tag	UNP Q9Y233
А	448	SER	-	expression tag	UNP Q9Y233
В	447	GLY	-	expression tag	UNP Q9Y233
В	448	SER	-	expression tag	UNP Q9Y233
С	447	GLY	-	expression tag	UNP Q9Y233
С	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).

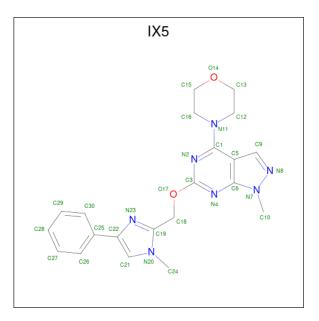
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Zn 1 1	0	0
2	В	1	Total Zn 1 1	0	0
2	С	1	Total Zn 1 1	0	0
2	D	1	Total Zn 1 1	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Mg 1 1	0	0
3	В	1	Total Mg 1 1	0	0
3	С	1	Total Mg 1 1	0	0
3	D	1	Total Mg 1 1	0	0

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

• Molecule 4 is 1-methyl-6-[(1-methyl-4-phenyl-1H-imidazol-2-yl)methoxy]-4-(morpholin-4-yl)-1H-pyrazolo[3,4-d]pyrimidine (three-letter code: IX5) (formula: C₂₁H₂₃N₇O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C N O 30 21 7 2	0	0
4	В	1	Total C N O 30 21 7 2	0	0
4	С	1	Total C N O 30 21 7 2	0	0
4	D	1	Total C N O 30 21 7 2	0	0

• Molecule 5 is water.



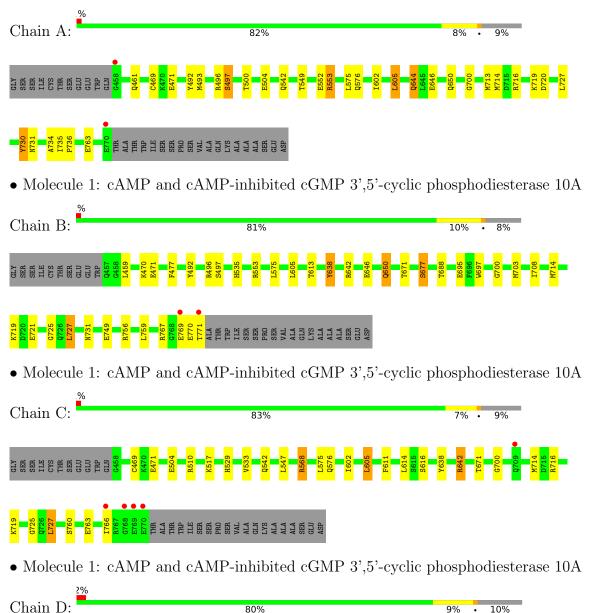
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	156	Total O 156 156	0	0
5	В	171	Total O 171 171	0	0
5	С	172	Total O 172 172	0	0
5	D	114	Total O 114 114	0	0



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







4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	96.3 (43.48-1.97) 96.3 (43.48-1.97)	Depositor EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.52 (at 1.97 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
R_{free} test set	5600 reflections (4.99%)	wwPDB-VP
Wilson B-factor $(Å^2)$	32.4	Xtriage
Anisotropy	0.079	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 42.4	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.025 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10925	wwPDB-VP
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.72% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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, IX5, MG, CME

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	Bo	nd lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.84	1/2603~(0.0%)	0.91	0/3521	
1	В	0.80	1/2613~(0.0%)	0.91	0/3535	
1	С	0.79	0/2614	0.90	2/3535~(0.1%)	
1	D	0.81	0/2570	0.87	0/3478	
All	All	0.81	2/10400~(0.0%)	0.90	2/14069~(0.0%)	

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	В	695	GLU	CD-OE2	-7.03	1.18	1.25
1	А	730	TYR	C-O	5.10	1.33	1.23

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	С	642	ARG	NE-CZ-NH2	-5.47	117.57	120.30
1	С	510	ARG	NE-CZ-NH1	5.14	122.87	120.30

There are no chirality outliers.

There are no planarity outliers.

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	А	2549	0	2524	24	0
1	В	2559	0	2528	23	0
1	С	2557	0	2537	15	0
1	D	2519	0	2496	21	0
2	А	1	0	0	0	0
2	В	1	0	0	0	0
2	С	1	0	0	0	0
2	D	1	0	0	0	0
3	А	1	0	0	0	0
3	В	1	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	А	30	0	0	1	0
4	В	30	0	0	3	0
4	С	30	0	0	3	0
4	D	30	0	0	3	0
5	А	156	0	0	4	0
5	В	171	0	0	3	0
5	С	172	0	0	3	0
5	D	114	0	0	2	0
All	All	10925	0	10085	86	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 4.

The worst 5 of 86 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:469:CYS:SG	5:A:1038:HOH:O	2.13	1.06
1:C:469:CYS:SG	5:C:1050:HOH:O	2.20	0.99
1:D:714:MET:HE2	5:D:964:HOH:O	1.74	0.86
1:B:767:ARG:NH2	1:B:769:GLU:OE1	2.14	0.81
1:B:470:LYS:HE2	1:D:746:PRO:HG3	1.64	0.80

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	Perce	ntiles
1	А	311/343~(91%)	302~(97%)	9~(3%)	0	100	100
1	В	313/343~(91%)	305~(97%)	8(3%)	0	100	100
1	\mathbf{C}	312/343~(91%)	306~(98%)	6(2%)	0	100	100
1	D	307/343~(90%)	296~(96%)	11 (4%)	0	100	100
All	All	1243/1372~(91%)	1209 (97%)	34(3%)	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	Percentil	\mathbf{es}
1	А	282/305~(92%)	274~(97%)	8(3%)	43 32	
1	В	282/305~(92%)	273~(97%)	9~(3%)	39 28	
1	С	283/305~(93%)	271~(96%)	12 (4%)	30 17	·
1	D	279/305~(92%)	270~(97%)	9~(3%)	39 28	
All	All	1126/1220~(92%)	1088 (97%)	38~(3%)	38 25	

5 of 38 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	760	SER
1	D	617	SER
1	D	459	LEU

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Mol	Chain	Res	Type
1	D	575	LEU
1	D	709	GLN

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 21 such side chains are listed below:

Mol	Chain	Res	Type
1	D	484	ASN
1	D	644	GLN
1	D	761	GLN
1	D	650	GLN
1	D	604	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	Res Link Bond lengths			Bond angles			
	Type	Unam	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	CME	В	509	1	8,9,10	0.48	0	5, 9, 11	0.54	0
1	CME	D	509	1	8,9,10	0.41	0	5,9,11	0.56	0
1	CME	А	509	1	8,9,10	0.69	0	5,9,11	0.97	0
1	CME	С	509	1	8,9,10	0.82	0	5, 9, 11	1.14	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	В	509	1	-	1/5/8/10	-
1	CME	D	509	1	-	3/5/8/10	-
1	CME	А	509	1	-	2/5/8/10	-
1	CME	С	509	1	-	3/5/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	В	509	CME	SD-CE-CZ-OH
1	С	509	CME	CE-SD-SG-CB
1	А	509	CME	SD-CE-CZ-OH
1	С	509	CME	SD-CE-CZ-OH
1	D	509	CME	SD-CE-CZ-OH

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	В	Bond lengths			Bond angles		
WIOI			nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
4	IX5	А	803	-	30,34,34	<mark>3.18</mark>	15 (50%)	33,48,48	2.42	9 (27%)	
4	IX5	В	803	-	30,34,34	2.66	15 (50%)	33,48,48	3.00	9 (27%)	



Mol	Туре	Chain	Res	5 Link	B	Bond lengths			Bond angles		
IVIOI		Ullalli			Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
4	IX5	С	803	-	30,34,34	2.64	11 (36%)	33,48,48	2.75	10 (30%)	
4	IX5	D	803	-	30,34,34	2.65	13 (43%)	33,48,48	2.81	11 (33%)	

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	IX5	А	803	-	-	2/11/21/21	0/5/5/5
4	IX5	В	803	-	-	3/11/21/21	0/5/5/5
4	IX5	С	803	-	-	4/11/21/21	0/5/5/5
4	IX5	D	803	-	-	3/11/21/21	0/5/5/5

The worst 5 of 54 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
4	А	803	IX5	C12-N11	-9.20	1.32	1.46
4	А	803	IX5	C19-N20	7.63	1.45	1.36
4	С	803	IX5	C25-C22	7.42	1.60	1.48
4	С	803	IX5	C12-N11	-6.75	1.36	1.46
4	В	803	IX5	C25-C22	6.72	1.59	1.48

The worst 5 of 39 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	В	803	IX5	C13-C12-N11	9.35	127.27	110.02
4	С	803	IX5	C13-C12-N11	9.29	127.16	110.02
4	D	803	IX5	C13-C12-N11	8.66	125.99	110.02
4	D	803	IX5	O14-C15-C16	-7.62	95.01	111.80
4	В	803	IX5	O14-C15-C16	-7.48	95.33	111.80

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	803	IX5	N2-C1-N11-C16
4	А	803	IX5	C5-C1-N11-C16
4	В	803	IX5	N2-C1-N11-C16
4	В	803	IX5	C5-C1-N11-C16

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Mol	Chain	Res	Type	Atoms
4	С	803	IX5	N2-C1-N11-C16

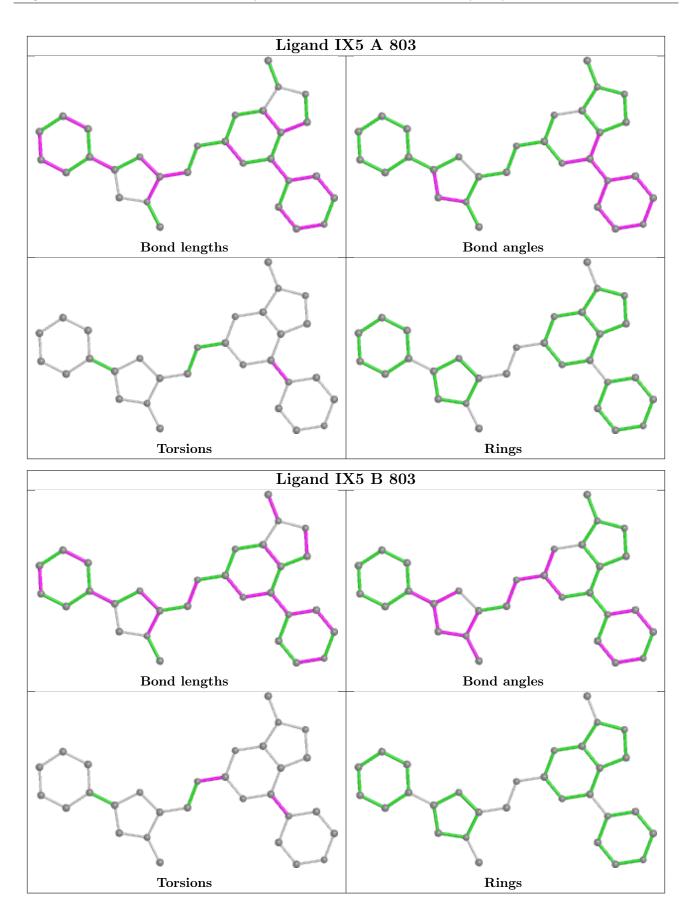
There are no ring outliers.

4 monomers are involved in 10 short contacts:

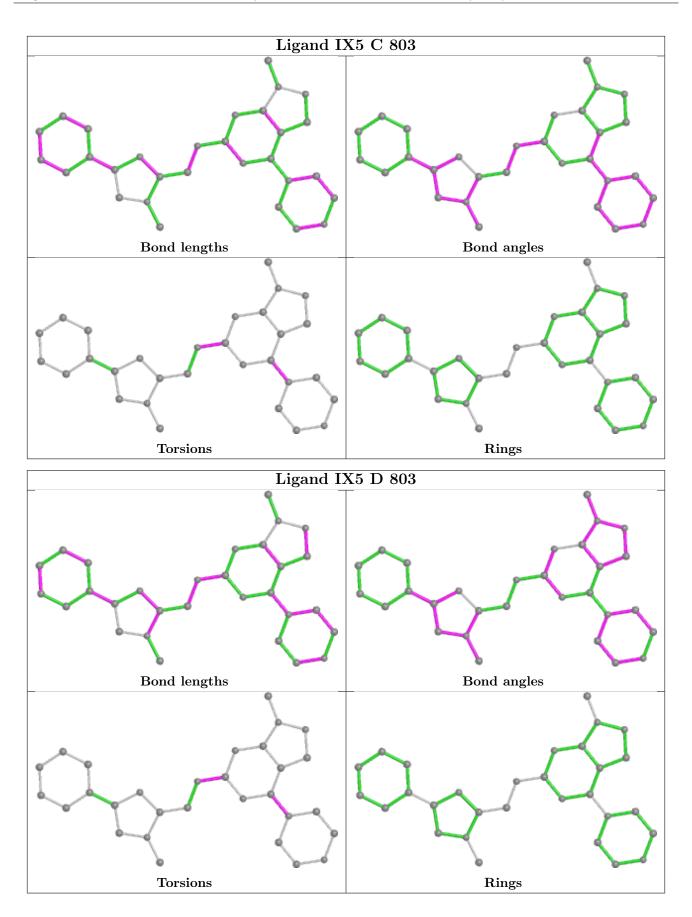
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	803	IX5	1	0
4	В	803	IX5	3	0
4	С	803	IX5	3	0
4	D	803	IX5	3	0

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.











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^{th} 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	А	312/343~(90%)	-0.17	2 (0%) 89 90	24, 35, 63, 96	0
1	В	314/343~(91%)	-0.06	2 (0%) 89 90	24, 34, 62, 92	0
1	С	312/343~(90%)	-0.37	5 (1%) 72 73	25, 35, 60, 87	0
1	D	309/343~(90%)	-0.17	8 (2%) 56 58	28, 42, 65, 91	0
All	All	1247/1372~(90%)	-0.19	17 (1%) 75 77	24, 37, 63, 96	0

The worst 5 of 17 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	458	GLY	4.6
1	D	654	LEU	3.0
1	С	770	GLU	2.8
1	С	768	GLY	2.7
1	D	459	LEU	2.6

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^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q < 0.9
1	CME	D	509	10/11	0.91	0.11	42,50,88,91	0
1	CME	С	509	10/11	0.93	0.10	36,43,74,82	0
1	CME	В	509	10/11	0.94	0.13	35,47,89,90	0
1	CME	А	509	10/11	0.95	0.09	36,44,80,84	0



6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

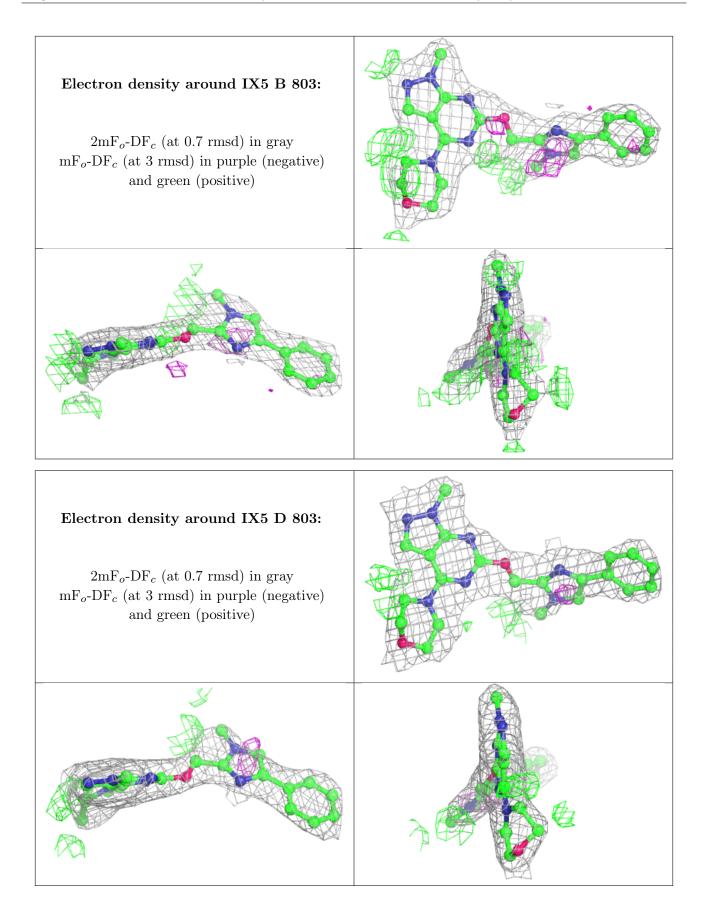
6.4 Ligands (i)

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^{th} 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.

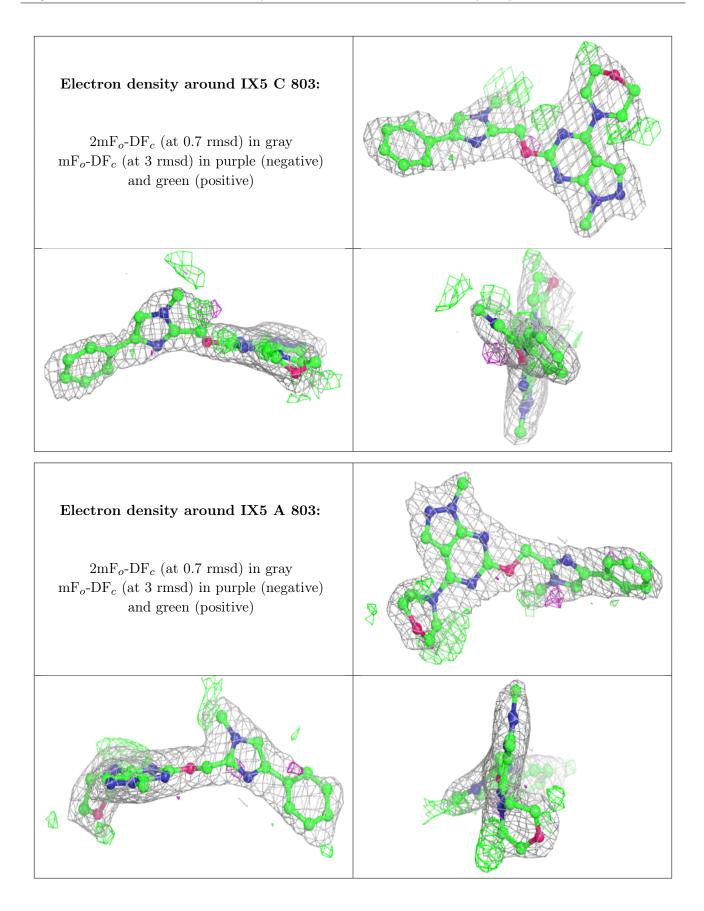
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	IX5	В	803	30/30	0.85	0.17	37,48,57,62	0
4	IX5	D	803	30/30	0.89	0.17	40,55,70,73	0
4	IX5	С	803	30/30	0.90	0.17	34,60,71,73	0
4	IX5	А	803	30/30	0.93	0.12	$34,\!48,\!58,\!66$	0
3	MG	В	802	1/1	0.98	0.11	22,22,22,22	0
3	MG	D	802	1/1	0.98	0.03	32,32,32,32	0
3	MG	С	802	1/1	0.99	0.07	25,25,25,25	0
3	MG	А	802	1/1	0.99	0.07	26,26,26,26	0
2	ZN	А	801	1/1	1.00	0.09	30,30,30,30	0
2	ZN	В	801	1/1	1.00	0.08	29,29,29,29	0
2	ZN	С	801	1/1	1.00	0.07	31,31,31,31	0
2	ZN	D	801	1/1	1.00	0.06	35,35,35,35	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.











6.5 Other polymers (i)

There are no such residues in this entry.

