

wwPDB X-ray Structure Validation Summary Report (i)

Oct 8, 2024 – 08:33 PM EDT

PDB ID : 5SJW

Title : CRYSTAL STRUCTURE OF HUMAN PHOSPHODIESTERASE 10 IN

COMPLEX WITH C(Nc1ccc2c(c1)nc([nH]2)c3ccccc3)(=O)c4c(C1)cnn4

CC(C)C, micromolar IC50=0.448073

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Deposited on : 2022-02-01

Resolution : 1.95 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:

MolProbity: 4.02b-467

Mogul : 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) : 1.20.1

EDS : 3.0

buster-report : 1.1.7 (2018)

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.003 (Gargrove)

 $Density-Fitness \quad : \quad 1.0.11$

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

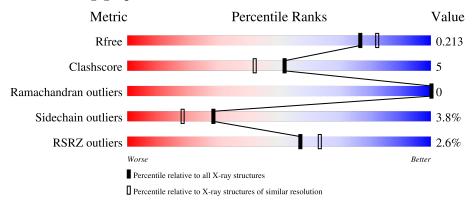
Validation Pipeline (wwPDB-VP) : 2.39

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.95 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (1.96-1.96)

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	A	343	80%	9% • 9%
1	В	343	79%	11% • 8%
1	С	343	2%	7% • 9%
1	D	343	80%	10% • 9%



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 11279 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called cAMP and cAMP-inhibited cGMP 3',5'-cyclic phosphodiesterase 10A.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	313	Total	С	N	О	S	0	3	0
1	A	313	2560	1636	438	462	24	0	3	
1	В	314	Total	С	N	О	S	0	1	0
1	Б	314	2554	1632	436	462	24	U	1	0
1	С	313	Total	С	N	О	S	0	2	0
1		919	2557	1634	438	461	24	0	2	
1	D	919	Total	С	N	О	S	0	0	0
1		312	2532	1619	432	457	24	U	U	

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
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	A	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



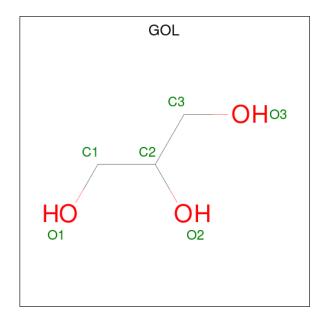
•	Molecule 3 is	s MAGNESIUM ION (three-letter code:	MG)	(formula: Mg)	
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Mg 1 1	0	0
3	В	1	Total Mg 1 1	0	0
3	С	1	Total Mg 1 1	0	0
3	D	1	Total Mg 1 1	0	0

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

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

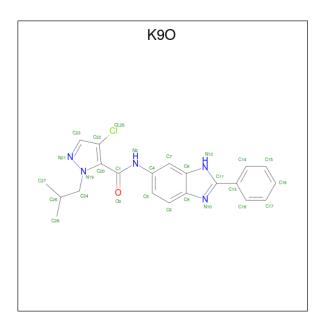
• Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 6 3 3	0	0

• Molecule 6 is 4-chloro-1-(2-methylpropyl)-N-(2-phenyl-1H-benzimidazol-6-yl)-1H-pyrazol e-5-carboxamide (three-letter code: K9O) (formula: $C_{21}H_{20}ClN_5O$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf
6	Λ	1	Total	С	Cl	N	О	0	0
0	6 A	1	28	21	1	5	1	U	0
6	В	1	Total	С	Cl	N	О	0	0
0	Б	1	28	21	1	5	1	U	
6	С	1	Total	С	Cl	N	О	0	0
0	C	1	28	21	1	5	1	U	0
6	D	1	Total	С	Cl	N	О	0	0
0	D	1	28	21	1	5	1	U	U

• Molecule 7 is water.

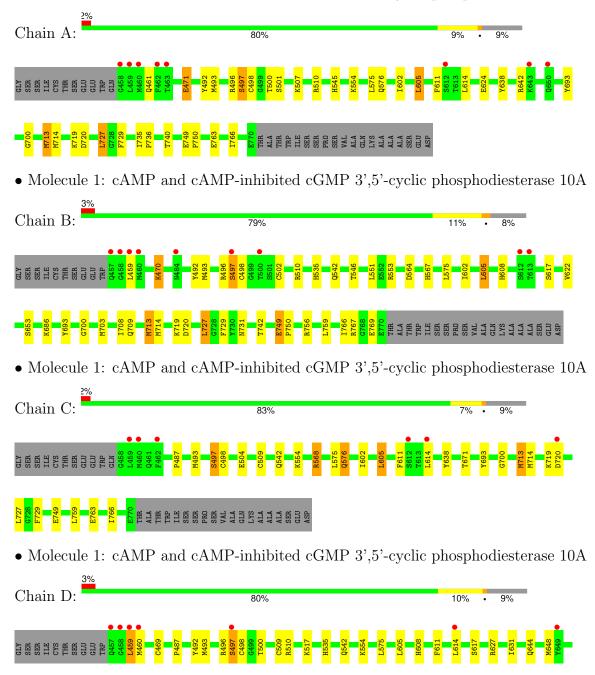
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	246	Total O 246 246	0	0
7	В	262	Total O 262 262	0	0
7	С	257	Total O 257 257	0	0
7	D	184	Total O 184 184	0	0



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	135.12Å 135.12Å 235.32Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	43.67 - 1.95	Depositor
Resolution (A)	43.67 - 1.95	EDS
% Data completeness	96.9 (43.67-1.95)	Depositor
(in resolution range)	96.9 (43.67 - 1.95)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.43 (at 1.95Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.172 , 0.207	Depositor
it, it _{free}	0.181 , 0.213	DCC
R_{free} test set	5848 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	28.9	Xtriage
Anisotropy	0.028	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	0.024 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	11279	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.73% of the height of the origin peak. No significant pseudotranslation is detected.

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



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: GOL, MG, K9O, CME, ZN, CL

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).

Mal	Mol Chain		lengths	Bond	\mathbf{angles}
IVIOI			# Z > 5	RMSZ	# Z > 5
1	A	0.64	0/2620	0.70	0/3543
1	В	0.64	0/2608	0.71	0/3528
1	С	0.63	0/2614	0.71	0/3535
1	D	0.65	0/2583	0.70	0/3495
All	All	0.64	0/10425	0.70	0/14101

There are no bond length outliers.

There are no bond angle outliers.

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	A	2560	0	2542	29	0
1	В	2554	0	2526	30	0
1	С	2557	0	2537	22	0
1	D	2532	0	2507	23	0
2	A	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	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	1	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	A	1	0	0	0	0
5	A	6	0	8	0	0
6	A	28	0	0	3	0
6	В	28	0	0	3	0
6	С	28	0	0	3	0
6	D	28	0	0	4	0
7	A	246	0	0	7	0
7	В	262	0	0	5	0
7	С	257	0	0	3	0
7	D	184	0	0	4	0
All	All	11279	0	10120	102	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 5.

The worst 5 of 102 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		${ m distance} ({ m \AA})$	overlap (Å)
1:C:568[A]:ARG:HG2	1:C:568[A]:ARG:HH11	1.36	0.90
1:A:461:GLN:HE22	1:A:500:THR:HG21	1.35	0.89
1:A:461:GLN:HE22	1:A:500:THR:CG2	1.89	0.84
1:D:469:CYS:SG	7:D:1060:HOH:O	2.39	0.78
1:A:545:HIS:O	7:A:901:HOH:O	2.02	0.76

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	A	313/343 (91%)	306 (98%)	7 (2%)	0	100	100
1	В	312/343~(91%)	305 (98%)	7 (2%)	0	100	100
1	\mathbf{C}	312/343 (91%)	308 (99%)	4 (1%)	0	100	100
1	D	309/343~(90%)	300 (97%)	9 (3%)	0	100	100
All	All	1246/1372 (91%)	1219 (98%)	27 (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	hain Analysed Rotameric Outliers		Percentiles	
1	A	284/305~(93%)	276 (97%)	8 (3%)	38 29
1	В	282/305~(92%)	270 (96%)	12 (4%)	25 14
1	С	283/305 (93%)	272 (96%)	11 (4%)	27 17
1	D	280/305 (92%)	267 (95%)	13 (5%)	23 12
All	All	1129/1220 (92%)	1085 (96%)	44 (4%)	28 17

5 of 44 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	719	LYS
1	D	517	LYS
1	С	720	ASP
1	D	460	MET
1	D	605	LEU

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

Mol	Chain	Res	Type
1	D	457	GLN
1	D	604	GLN
1	D	761	GLN

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Mol	Chain	Res	Type
1	D	644	GLN
1	D	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		В	Bond lengths			Bond angles			
MIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
1	CME	С	509	1	8,9,10	0.48	0	6,9,11	0.77	0
1	CME	D	509	1	8,9,10	0.55	0	6,9,11	0.51	0
1	CME	В	509	1	8,9,10	0.44	0	6,9,11	0.80	0
1	CME	A	509	1	8,9,10	0.57	0	6,9,11	0.71	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	С	509	1	-	1/5/8/10	-
1	CME	D	509	1	-	0/5/8/10	-
1	CME	В	509	1	-	0/5/8/10	-
1	CME	A	509	1	-	1/5/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
1	A	509	CME	SD-CE-CZ-OH
1	С	509	CME	SD-CE-CZ-OH

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	С	509	CME	1	0
1	D	509	CME	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 9 are monoatomic - leaving 5 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	Mol Type	Chain	Res	Link	Вс	nd leng	ths	Bond angles		
MIOI			nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	K9O	A	805	-	29,31,31	0.89	2 (6%)	34,44,44	1.74	4 (11%)
6	K9O	В	803	-	29,31,31	0.93	2 (6%)	34,44,44	2.02	5 (14%)
5	GOL	A	804	-	5,5,5	0.16	0	5,5,5	0.40	0
6	K9O	С	803	-	29,31,31	1.00	3 (10%)	34,44,44	1.87	5 (14%)
6	К9О	D	803	-	29,31,31	0.87	2 (6%)	34,44,44	1.85	5 (14%)

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
6	K9O	A	805	-	-	1/10/16/16	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	K9O	В	803	-	-	1/10/16/16	0/4/4/4
5	GOL	A	804	-	-	4/4/4/4	-
6	K9O	С	803	-	-	1/10/16/16	0/4/4/4
6	K9O	D	803	-	-	1/10/16/16	0/4/4/4

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\mathring{A}})$	Ideal(A)
6	С	803	K9O	C11-N12	-3.03	1.32	1.35
6	В	803	K9O	C11-N12	-2.50	1.32	1.35
6	A	805	K9O	C11-N12	-2.35	1.32	1.35
6	В	803	K9O	C23-C22	2.32	1.41	1.38
6	A	805	K9O	C11-N10	2.24	1.38	1.35

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
6	D	803	K9O	C23-N21-N19	7.69	112.23	104.23
6	С	803	K9O	C23-N21-N19	7.49	112.03	104.23
6	В	803	K9O	C23-N21-N19	7.48	112.01	104.23
6	A	805	K9O	C23-N21-N19	7.30	111.83	104.23
6	В	803	K9O	C24-N19-N21	6.00	127.55	117.25

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	804	GOL	O1-C1-C2-C3
5	A	804	GOL	C1-C2-C3-O3
6	A	805	K9O	N19-C24-C26-C27
6	D	803	K9O	N19-C24-C26-C27
5	A	804	GOL	O2-C2-C3-O3

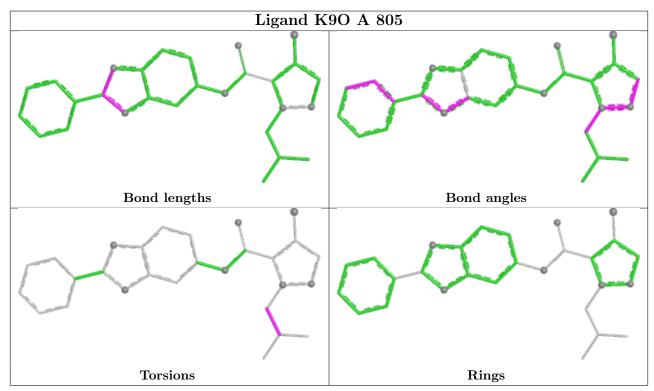
There are no ring outliers.

4 monomers are involved in 13 short contacts:

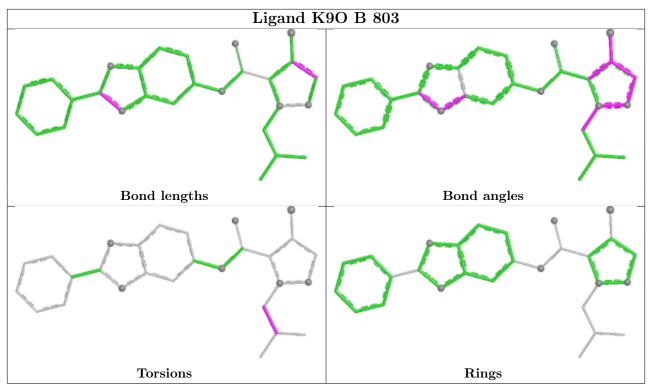
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	805	K9O	3	0
6	В	803	K9O	3	0
6	С	803	K9O	3	0
6	D	803	K9O	4	0

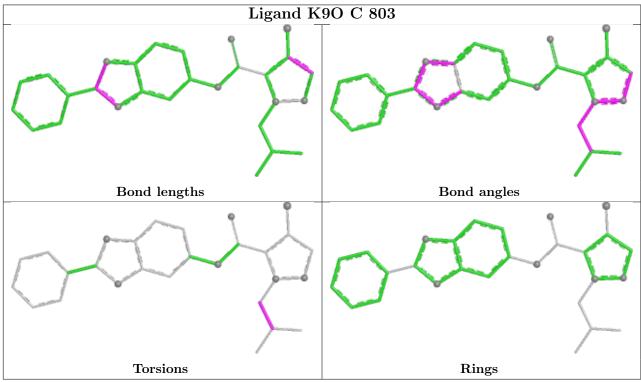


The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

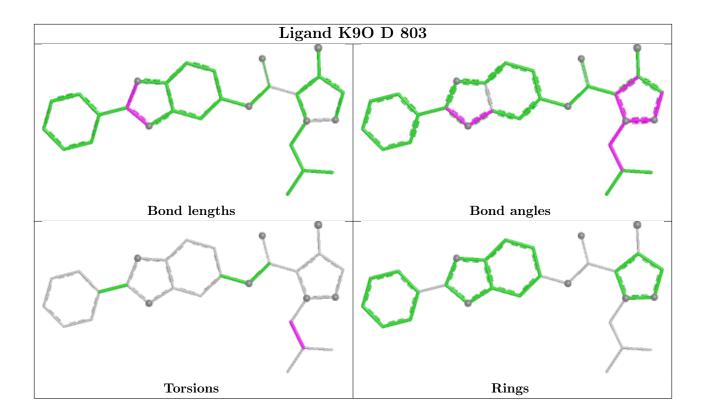












5.7 Other polymers (i)

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	$\langle { m RSRZ} \rangle$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	312/343 (90%)	0.01	8 (2%) 57 63	15, 31, 59, 90	3 (0%)
1	В	313/343 (91%)	0.03	9 (2%) 54 60	18, 30, 57, 93	1 (0%)
1	С	312/343 (90%)	0.00	6 (1%) 66 72	17, 31, 57, 87	2 (0%)
1	D	311/343 (90%)	0.35	10 (3%) 50 57	25, 40, 64, 105	0
All	All	1248/1372 (90%)	0.10	33 (2%) 57 63	15, 34, 60, 105	6 (0%)

The worst 5 of 33 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	459	LEU	4.9
1	В	458	GLY	3.7
1	A	459	LEU	3.6
1	D	768	GLY	3.5
1	D	458	GLY	3.4

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	CME	В	509	10/11	0.90	0.14	34,44,78,84	0
1	CME	С	509	10/11	0.91	0.12	33,39,68,72	0
1	CME	A	509	10/11	0.92	0.13	35,43,77,83	0
1	CME	D	509	10/11	0.92	0.12	38,51,90,96	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.

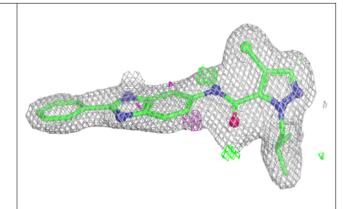
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q < 0.9
4	CL	A	803	1/1	0.78	0.14	82,82,82,82	0
5	GOL	A	804	6/6	0.83	0.16	47,53,55,56	0
6	K9O	С	803	28/28	0.89	0.13	39,46,54,56	0
6	K9O	D	803	28/28	0.89	0.13	48,56,59,62	0
6	K9O	В	803	28/28	0.91	0.11	36,41,46,49	0
6	K9O	A	805	28/28	0.92	0.10	35,40,43,46	0
3	MG	D	802	1/1	0.98	0.03	30,30,30,30	0
3	MG	В	802	1/1	0.99	0.01	16,16,16,16	0
3	MG	С	802	1/1	0.99	0.04	22,22,22,22	0
2	ZN	D	801	1/1	0.99	0.03	32,32,32,32	0
2	ZN	С	801	1/1	1.00	0.01	26,26,26,26	0
2	ZN	A	801	1/1	1.00	0.01	25,25,25,25	0
3	MG	A	802	1/1	1.00	0.02	20,20,20,20	0
2	ZN	В	801	1/1	1.00	0.01	23,23,23,23	0

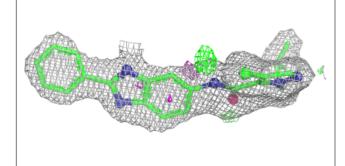
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

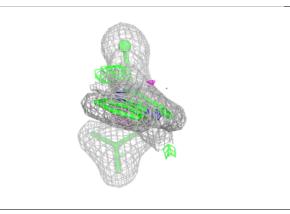


Electron density around K9O C 803:

 $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

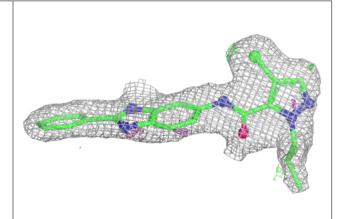


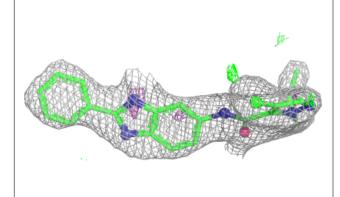


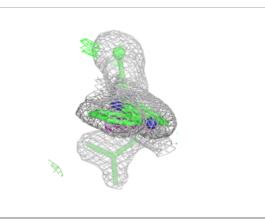


Electron density around K9O D 803:

 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

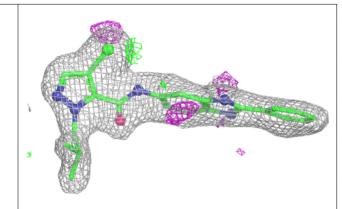


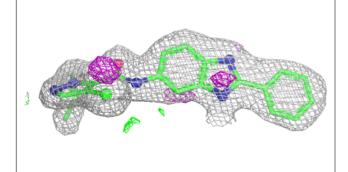


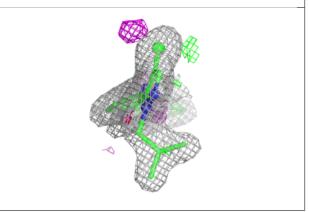


Electron density around K9O B 803:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

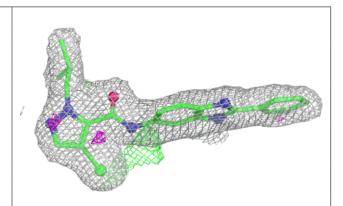


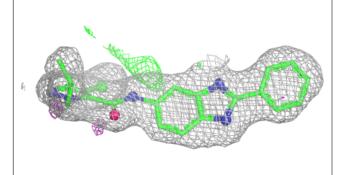


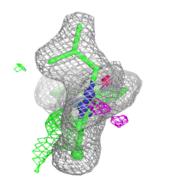


Electron density around K9O A 805:

 $2 {
m mF}_o {
m -DF}_c$ (at 0.7 rmsd) in gray ${
m mF}_o {
m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)









6.5 Other polymers (i)

There are no such residues in this entry.

