

# Full wwPDB X-ray Structure Validation Report (i)

#### Nov 9, 2021 – 01:52 AM EST

PDB ID	:	5P9T
Title	:	humanized rat catechol O-methyltransferase in complex with 6-(4-fluorophen
		yl)-8-hydroxy-3H-quinazolin-4-one
Authors	:	Ehler, A.; Buettelmann, B.; Rudolph, M.G.
Deposited on	:	2016-10-19
Resolution	:	1.24  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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

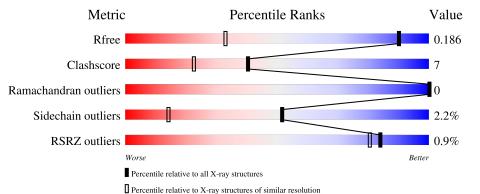
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.23.2
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

## 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 1.24 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	2024 (1.28-1.20)
Clashscore	141614	1007 (1.26-1.22)
Ramachandran outliers	138981	2053 (1.28-1.20)
Sidechain outliers	138945	2051 (1.28-1.20)
RSRZ outliers	127900	1987 (1.28-1.20)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	221	% 	16%	•••



#### 5P9T

## 2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 2090 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 Catechol O-methyltransferase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	А	213	Total 1774	C 1137	N 291	O 331	S 15	0	19	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	91	ILE	MET	engineered mutation	UNP P22734
А	95	CYS	TYR	engineered mutation	UNP P22734

• Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

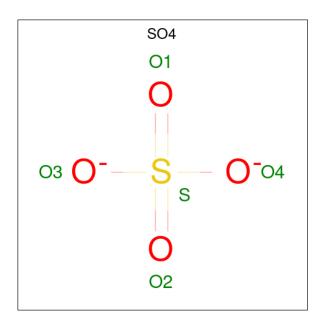
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Mg 1 1	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

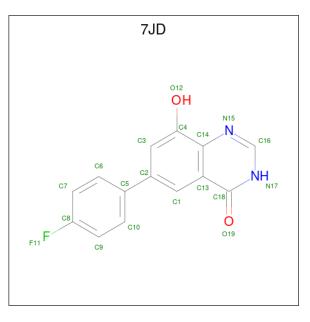
• Molecule 4 is SULFATE ION (three-letter code: SO4) (formula:  $O_4S$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	А	1	Total 5	0 4	S 1	0	0

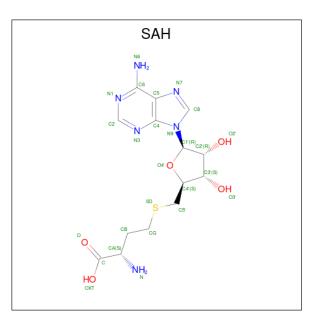
• Molecule 5 is 6-(4-fluorophenyl)-8-oxidanyl-3 {H}-quinazolin-4-one (three-letter code: 7JD) (formula:  $C_{14}H_9FN_2O_2$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	А	1	Total	С	F	Ν	0	0	0
0	1	1	19	14	1	2	2		0

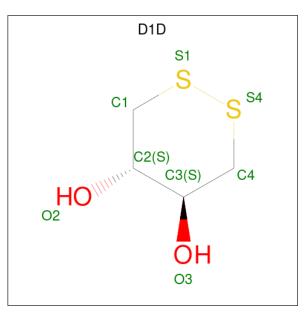
• Molecule 6 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula:  $\rm C_{14}H_{20}N_6O_5S).$ 





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	А	1	Total 26	C 14	N 6	O 5	S 1	0	0

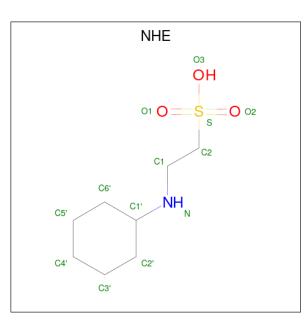
• Molecule 7 is (4S,5S)-1,2-DITHIANE-4,5-DIOL (three-letter code: D1D) (formula:  $C_4H_8O_2S_2$ ).



I	Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
	7	А	1	Total 8	С 4	O 2	$\begin{array}{c} \mathrm{S} \\ \mathrm{2} \end{array}$	0	1

• Molecule 8 is 2-[N-CYCLOHEXYLAMINO]ETHANE SULFONIC ACID (three-letter code: NHE) (formula:  $C_8H_{17}NO_3S$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
0	Δ	1	Total	С	Ν	0	S	0	1
0	A	1	13	8	1	3	1	0	1

• Molecule 9 is water.

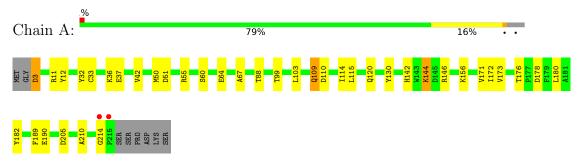
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	А	242	Total         O           243         243	0	1



## 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: Catechol O-methyltransferase





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	49.73Å 54.55Å 81.32Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	45.30 - 1.24	Depositor
Resolution (A)	40.66 - 1.24	EDS
% Data completeness	72.1 (45.30-1.24)	Depositor
(in resolution range)	$72.1 \ (40.66 - 1.24)$	EDS
R <sub>merge</sub>	0.06	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.00 (at 1.24 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.6.0062	Depositor
D D	0.143 , $0.186$	Depositor
$R, R_{free}$	0.144 , $0.186$	DCC
$R_{free}$ test set	2403 reflections $(5.09%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	10.2	Xtriage
Anisotropy	0.444	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35 , $37.4$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.48, \langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	2090	wwPDB-VP
Average B, all atoms $(Å^2)$	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.30% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: D1D, SAH, 7JD, MG, CL, SO4, NHE

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	
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	1.35	5/1862~(0.3%)	1.23	9/2523~(0.4%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	60	SER	CB-OG	-6.20	1.34	1.42
1	А	182	TYR	CD1-CE1	-5.42	1.31	1.39
1	А	144	LYS	CE-NZ	-5.39	1.35	1.49
1	А	214	GLY	N-CA	5.07	1.53	1.46
1	А	210	ALA	CA-CB	-5.00	1.42	1.52

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	3	ASP	CB-CG-OD1	8.77	126.19	118.30
1	А	178	ASP	CB-CG-OD2	-7.27	111.75	118.30
1	А	189	PHE	CB-CG-CD2	-6.07	116.55	120.80
1	А	12	TYR	CD1-CE1-CZ	5.67	124.91	119.80
1	А	32	TYR	CZ-CE2-CD2	-5.14	115.17	119.80
1	А	51	ASP	CB-CG-OD1	5.11	122.90	118.30
1	А	3	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	А	144	LYS	CD-CE-NZ	-5.06	100.05	111.70
1	А	189	PHE	CB-CG-CD1	5.03	124.32	120.80

All (9) bond angle outliers are listed below:

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	1774	0	1843	27	0
2	А	1	0	0	0	0
3	А	1	0	0	0	0
4	А	5	0	0	1	0
5	А	19	0	0	0	0
6	А	26	0	19	0	0
7	А	8	0	8	0	0
8	А	13	0	17	0	0
9	А	243	0	0	5	1
All	All	2090	0	1887	27	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 7.

All (27) 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:110[A]:ASP:OD1	9:A:403:HOH:O	1.60	1.18
1:A:3:ASP:OD2	1:A:11[A]:ARG:NH2	2.01	0.93
1:A:67:ALA:HB2	1:A:88[B]:THR:HG21	1.61	0.83
1:A:67:ALA:HB2	1:A:88[B]:THR:CG2	2.17	0.73
1:A:144:LYS:HE2	9:A:568:HOH:O	1.89	0.72
1:A:190:GLU:OE2	9:A:404:HOH:O	2.14	0.65
1:A:55[A]:ARG:NH1	9:A:406:HOH:O	2.29	0.65
1:A:115:LEU:HD21	1:A:130:TYR:CE1	2.34	0.62
1:A:109:GLN:NE2	1:A:109:GLN:H	2.04	0.55
1:A:99:THR:HG22	1:A:114:ILE:HD11	1.91	0.53
1:A:36:LYS:NZ	9:A:409:HOH:O	2.43	0.50
1:A:114:ILE:HG21	1:A:114:ILE:HD13	1.63	0.48
1:A:120:GLN:HB3	1:A:146[A]:ARG:NH2	2.29	0.47
1:A:115:LEU:CD2	1:A:130:TYR:CE1	2.98	0.45
1:A:110[B]:ASP:OD2	4:A:303:SO4:O1	2.35	0.45
1:A:172:ILE:HB	1:A:205:ASP:HA	1.99	0.44
1:A:67:ALA:HB2	1:A:88[B]:THR:HG22	1.99	0.43
1:A:103:LEU:HD12	1:A:114:ILE:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:ALA:CB	1:A:88[B]:THR:HG21	2.41	0.42
1:A:115:LEU:HD22	1:A:130:TYR:CZ	2.54	0.42
1:A:33:CYS:HA	1:A:37:GLU:O	2.20	0.42
1:A:42:VAL:HG11	1:A:50[B]:MET:SD	2.59	0.42
1:A:171:VAL:HA	1:A:176[A]:THR:HG22	2.01	0.42
1:A:64:GLU:HG2	1:A:88[B]:THR:HG23	2.02	0.41
1:A:99:THR:HG22	1:A:114:ILE:CD1	2.50	0.41

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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)
9:A:415:HOH:O	9:A:438:HOH:O[4_456]	1.44	0.76

### 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	230/221~(104%)	223~(97%)	7 (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	Percentiles
1	А	202/190~(106%)	198~(98%)	4 (2%)	55 16

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	109	GLN
1	А	142	HIS
1	А	156	LYS
1	А	180	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	109	GLN
1	А	116	ASN
1	А	125	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 7 ligands modelled in this entry, 2 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	Turne	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	les
	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	SO4	А	303	-	$4,\!4,\!4$	0.79	0	6,6,6	0.94	0
7	D1D	А	306[A]	-	$6,\!8,\!8$	1.71	1 (16%)	6,10,10	1.44	1 (16%)
6	SAH	А	305	-	21,28,28	1.20	3 (14%)	20,40,40	1.63	4 (20%)
8	NHE	А	307[B]	-	13,13,13	2.17	1 (7%)	16,17,17	1.91	4 (25%)
5	7JD	А	304	2	20,21,21	1.92	6 (30%)	25,30,30	1.88	6 (24%)

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
7	D1D	А	306[A]	-	-	-	0/0/1/1
6	SAH	А	305	-	-	0/7/31/31	0/3/3/3
8	NHE	А	307[B]	-	-	3/7/15/15	0/1/1/1
5	7JD	А	304	2	-	0/4/4/4	0/3/3/3

All (11) bond length outliers are listed below:	w:
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Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
8	А	307[B]	NHE	C2-S	-7.32	1.67	1.77
5	А	304	7JD	C3-C2	4.37	1.47	1.39
5	А	304	7JD	C18-N17	3.93	1.39	1.33
5	А	304	7JD	C14-N15	3.88	1.42	1.37
7	А	306[A]	D1D	O3-C3	3.45	1.50	1.43
6	А	305	SAH	O4'-C1'	2.55	1.44	1.41
5	А	304	7JD	C4-C14	-2.46	1.38	1.42
6	А	305	SAH	C2-N3	-2.33	1.28	1.32
5	А	304	7 JD	C9-C8	2.30	1.41	1.37
6	А	305	SAH	C8-N7	-2.17	1.30	1.34
5	А	304	7JD	C1-C13	2.14	1.44	1.41

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
6	А	305	SAH	O4'-C1'-C2'	-4.61	100.19	106.93
5	А	304	7JD	C2-C1-C13	-4.48	117.23	122.36
5	А	304	7JD	C16-N17-C18	4.10	122.74	115.88
8	А	307[B]	NHE	C5'-C6'-C1'	3.54	117.77	111.11
5	А	304	7JD	C16-N15-C14	3.47	117.51	114.81
5	А	304	7JD	C4-C14-C13	3.26	122.79	119.60

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Mol	Chain	Res	Type	Atoms		$Observed(^{o})$	$Ideal(^{o})$
6	А	305	SAH	C3'-C2'-C1'	3.04	105.56	100.98
6	А	305	SAH	C1'-N9-C4	-3.03	121.32	126.64
8	А	307[B]	NHE	O2-S-O1	-2.97	103.66	113.95
7	А	306[A]	D1D	C1-C2-C3	2.94	118.26	112.45
8	А	307[B]	NHE	C3'-C2'-C1'	-2.83	105.78	111.11
8	А	307[B]	NHE	C2-C1-N	2.81	119.23	111.25
5	А	304	7JD	N15-C16-N17	-2.70	124.45	128.68
5	А	304	7JD	C13-C14-N15	-2.21	120.65	122.77
6	А	305	SAH	N3-C2-N1	-2.08	125.43	128.68

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There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	А	307[B]	NHE	C2'-C1'-N-C1
8	А	307[B]	NHE	C6'-C1'-N-C1
8	А	307[B]	NHE	C1-C2-S-O2

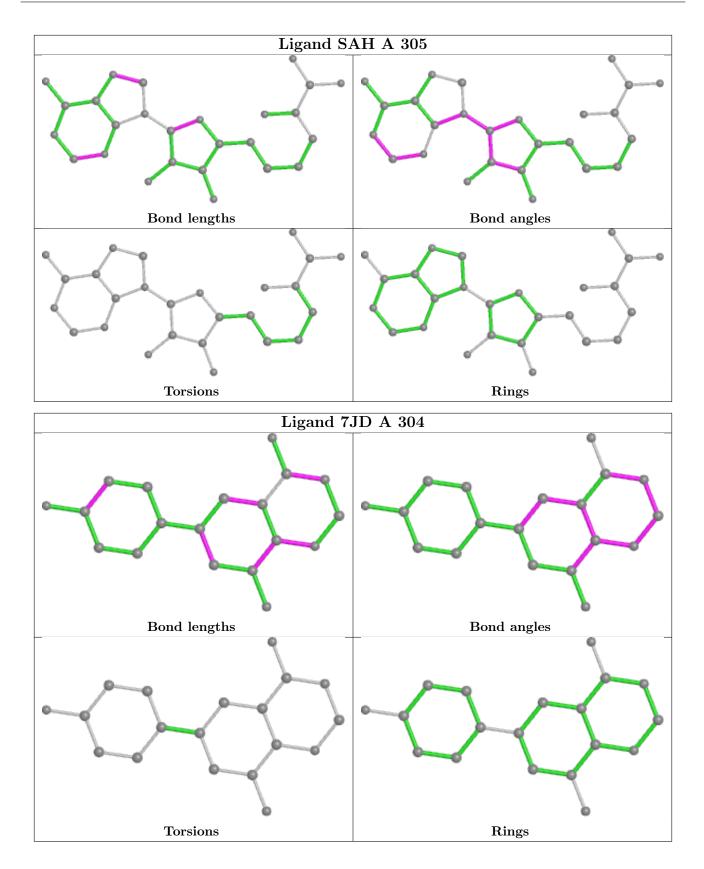
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	303	SO4	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 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 $>$	#RS	SRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	213/221~(96%)	-0.33	2(0%)	84 80	9, 13, 23, 39	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	215	PRO	4.7
1	А	214	GLY	2.4

### 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,  $95^{th}$  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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q < 0.9
8	NHE	А	307[B]	13/13	0.91	0.11	$15,\!19,\!21,\!22$	13
4	SO4	А	303	5/5	0.95	0.23	38,48,62,66	0
7	D1D	А	306[A]	8/8	0.96	0.09	14,15,18,20	8
5	7JD	А	304	19/19	0.98	0.08	6,8,10,10	0
6	SAH	А	305	26/26	0.99	0.06	9,10,11,12	0

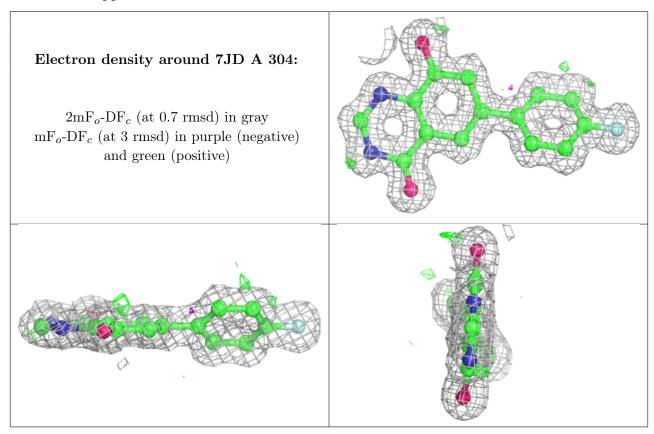
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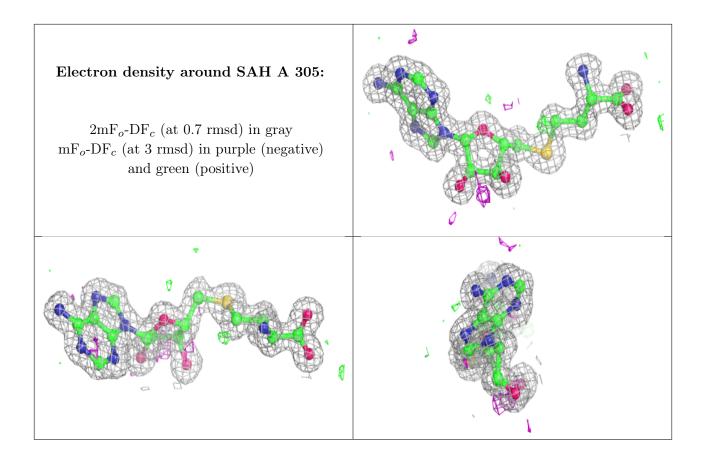
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	CL	А	302	1/1	1.00	0.07	18,18,18,18	0
2	MG	А	301	1/1	1.00	0.05	8,8,8,8	0

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.

