W O R L D W I D E
wwPDB
P R O T E I N   D A T A   B A N K

Full wwPDB X-ray Structure Validation Report ⓘ

Nov 9, 2021 – 08:28 AM EST

PDB ID	:	5P9P
Title	:	humanized rat COMT in complex with 5,6-bis(4-fluorophenyl)-8-hydroxy-3H -quinazolin-4-one
Authors	:	Ehler, A.; Jakob-Roetne, R.; Rudolph, M.G.
Deposited on	:	2016-10-19
Resolution	:	1.12 Å(reported)

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

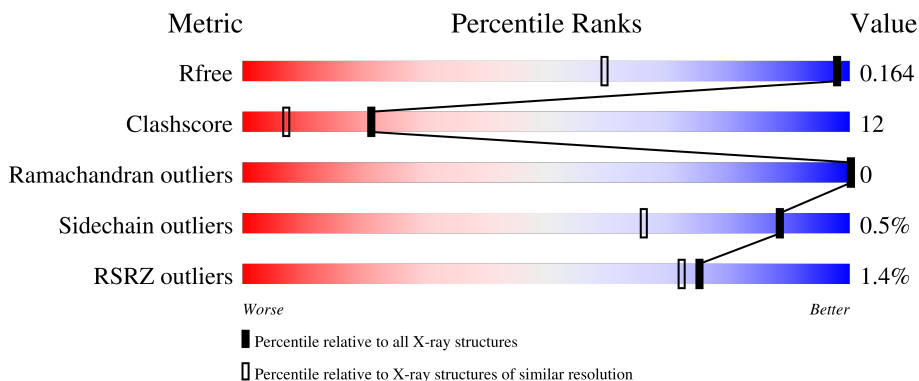|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.23.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh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

1 Overall quality at a glance ⓘ

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

The reported resolution of this entry is 1.12 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	Percentile Ranks	Value
Rfree		0.164
Clashscore		12
Ramachandran outliers		0
Sidechain outliers		0.5%
RSRZ outliers		1.4%

Worse | | *Better*

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1168 (1.14-1.10)
Clashscore	141614	1205 (1.14-1.10)
Ramachandran outliers	138981	1168 (1.14-1.10)
Sidechain outliers	138945	1165 (1.14-1.10)
RSRZ outliers	127900	1146 (1.14-1.10)

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	221	85% 12% •

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
8	DMS	A	307[A]	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
8	DMS	A	307[B]	-	-	X	-

2 Entry composition ⓘ

There are 10 unique types of molecules in this entry. The entry contains 2175 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	A	213	Total	C	N	O	S	0	22	0
			1796	1154	295	332	15			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	91	ILE	MET	engineered mutation	UNP P22734
A	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	A	1	Total	Mg	0	0
			1	1		

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

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

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

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

- Molecule 5 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: $C_{14}H_{20}N_6O_5S$).
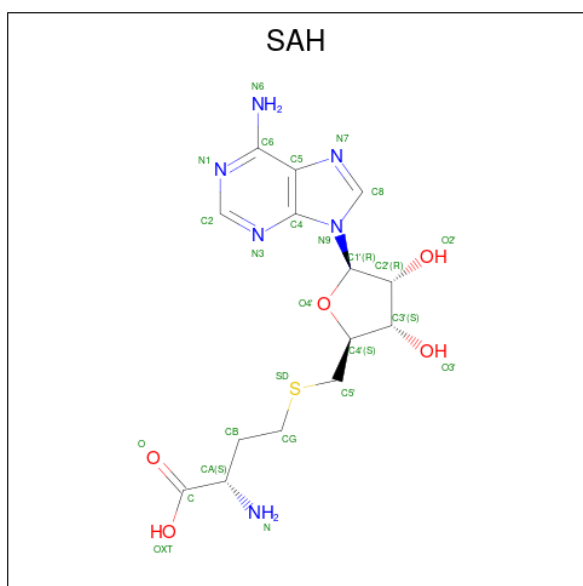
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
5	A	1	26	14	6	5	1	0	0

- Molecule 6 is 2-[N-CYCLOHEXYLAMINO]ETHANE SULFONIC ACID (three-letter code: NHE) (formula: $C_8H_{17}NO_3S$).
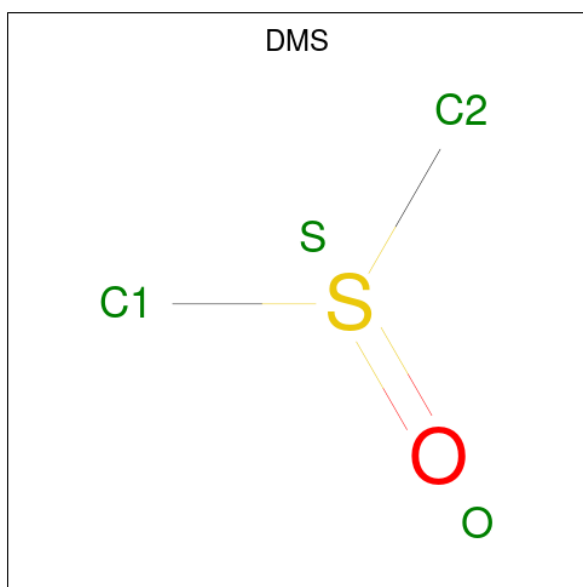
NHE
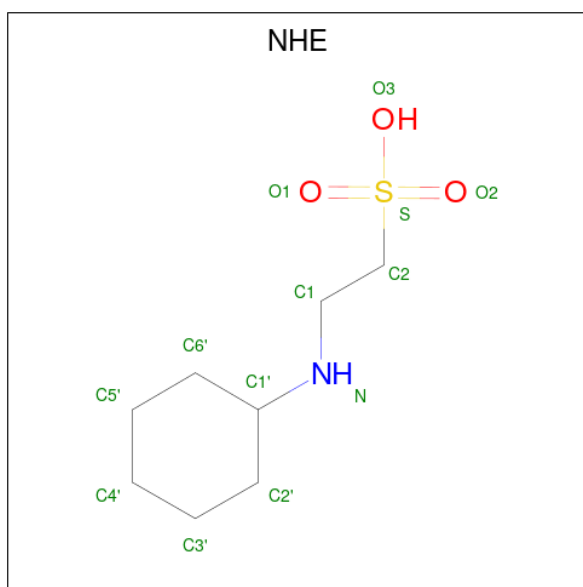
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
6	A	1	13	8	1	3	1	0	0

- Molecule 7 is 5,6-bis(4-fluorophenyl)-8-oxidanyl-3 {H}-quinazolin-4-one (three-letter code: 7JG) (formula: $C_{20}H_{12}F_2N_2O_2$).

7JG
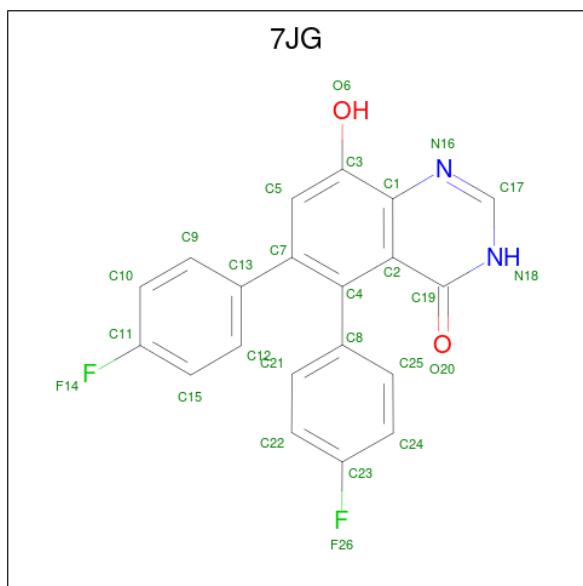
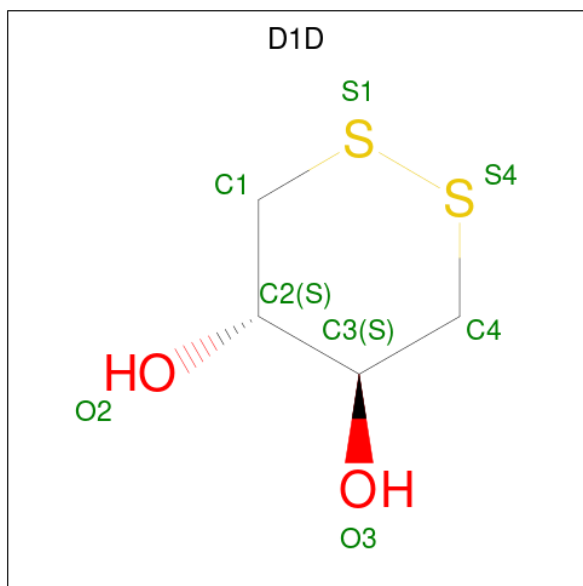| Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	F	N	O		
7	A	1	26	20	2	2	2	0	0

- Molecule 8 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C_2H_6OS).

DMS

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
8	A	1	Total	C	O	S	0	1
			8	4	2	2		

- Molecule 9 is (4S,5S)-1,2-DITHIANE-4,5-DIOL (three-letter code: D1D) (formula: $C_4H_8O_2S_2$).

D1D

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
9	A	1	Total	C	O	S	0	0
			8	4	2	2		

- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	286	Total 291	O 291	0	5

3 Residue-property plots ⓘ

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
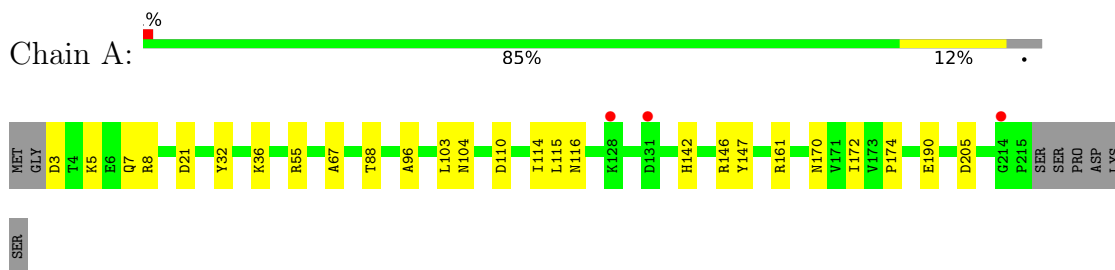
4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	49.72Å 54.62Å 81.35Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.42 – 1.12 42.42 – 1.12	Depositor EDS
% Data completeness (in resolution range)	88.9 (42.42-1.12) 88.9 (42.42-1.12)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.24 (at 1.12Å)	Xtriage
Refinement program	REFMAC 5.6.0093	Depositor
R, R_{free}	0.143 , 0.164 0.142 , 0.164	Depositor DCC
R_{free} test set	3974 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	10.2	Xtriage
Anisotropy	0.295	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 35.3	EDS
L-test for twinning[2]	$< |L| > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.98	EDS
Total number of atoms	2175	wwPDB-VP
Average B, all atoms (Å^2)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.48% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical 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.

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: DMS, SAH, CL, NHE, MG, 7JG, D1D, SO4

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	0.86	0/1884	0.94	4/2550 (0.2%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	21	ASP	CB-CG-OD1	6.15	123.83	118.30
1	A	161	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	A	147	TYR	CB-CG-CD1	5.58	124.35	121.00
1	A	3	ASP	CB-CG-OD1	5.21	122.99	118.30

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	A	1796	0	1879	38	0
2	A	1	0	0	0	0
3	A	1	0	0	0	0
4	A	5	0	0	0	0
5	A	26	0	19	1	0
6	A	13	0	8	3	0
7	A	26	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	A	8	0	12	12	0
9	A	8	0	3	1	0
10	A	291	0	0	22	1
All	All	2175	0	1921	46	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 12.

All (46) 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:146[B]:ARG:NH2	10:A:402:HOH:O	1.81	1.11
1:A:7[B]:GLN:CG	10:A:405:HOH:O	2.02	1.03
1:A:7[B]:GLN:CD	10:A:405:HOH:O	2.04	0.92
1:A:7[B]:GLN:NE2	10:A:405:HOH:O	2.13	0.82
1:A:115[B]:LEU:HD12	1:A:115[B]:LEU:N	1.98	0.79
1:A:114[B]:ILE:O	6:A:305:NHE:HC21	1.83	0.78
1:A:104[B]:ASN:ND2	10:A:403:HOH:O	2.17	0.78
1:A:67:ALA:HB2	1:A:88[B]:THR:CG2	2.16	0.75
1:A:104[B]:ASN:OD1	10:A:403:HOH:O	2.05	0.74
1:A:104[B]:ASN:CG	10:A:403:HOH:O	2.28	0.72
1:A:116[B]:ASN:HD21	6:A:305:NHE:C6'	2.02	0.72
1:A:5:LYS:H	8:A:307[A]:DMS:H21	1.54	0.71
1:A:7[B]:GLN:HG3	10:A:405:HOH:O	1.81	0.71
8:A:307[B]:DMS:H11	10:A:451:HOH:O	1.91	0.71
1:A:8:ARG:HH12	8:A:307[B]:DMS:C1	2.04	0.70
1:A:103:LEU:CD1	1:A:114[A]:ILE:HD11	2.22	0.69
1:A:116[A]:ASN:CG	10:A:404:HOH:O	2.30	0.69
1:A:5:LYS:H	8:A:307[A]:DMS:C2	2.06	0.69
1:A:8:ARG:HH12	8:A:307[B]:DMS:H13	1.58	0.69
1:A:67:ALA:HB2	1:A:88[B]:THR:HG21	1.74	0.69
1:A:116[A]:ASN:OD1	10:A:404:HOH:O	2.12	0.67
8:A:307[B]:DMS:C1	10:A:451:HOH:O	2.42	0.67
1:A:110:ASP:OD1	10:A:406:HOH:O	2.15	0.65
1:A:115[B]:LEU:N	1:A:115[B]:LEU:CD1	2.61	0.63
1:A:114[A]:ILE:N	1:A:114[A]:ILE:HD12	2.14	0.62
1:A:170:ASN:HB3	1:A:174:PRO:HD2	1.82	0.61
1:A:55[A]:ARG:NH1	10:A:408:HOH:O	2.34	0.61
1:A:67:ALA:HB2	1:A:88[B]:THR:HG22	1.84	0.59
1:A:190:GLU:OE2	10:A:407:HOH:O	2.16	0.58
1:A:114[B]:ILE:C	1:A:115[B]:LEU:HD12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:96:ALA:CB	1:A:116[B]:ASN:HD22	2.20	0.54
1:A:8:ARG:HH22	8:A:307[B]:DMS:H12	1.73	0.53
1:A:116[B]:ASN:HD21	6:A:305:NHE:H6'1	1.73	0.52
1:A:116[A]:ASN:ND2	10:A:404:HOH:O	2.43	0.51
1:A:116[B]:ASN:HD21	9:A:308:D1D:C1	2.26	0.48
1:A:96:ALA:HB1	1:A:116[B]:ASN:ND2	2.29	0.47
8:A:307[B]:DMS:C2	10:A:539:HOH:O	2.62	0.46
8:A:307[A]:DMS:H23	10:A:459:HOH:O	2.15	0.46
8:A:307[A]:DMS:C2	10:A:459:HOH:O	2.67	0.41
1:A:32:TYR:CD1	1:A:36[A]:LYS:HD2	2.55	0.41
1:A:172:ILE:HB	1:A:205:ASP:HA	2.02	0.41
8:A:307[B]:DMS:H22	10:A:539:HOH:O	2.21	0.41
1:A:103:LEU:HD12	1:A:114[A]:ILE:HD11	1.99	0.41
8:A:307[B]:DMS:H13	10:A:451:HOH:O	2.16	0.41
1:A:96:ALA:CB	1:A:116[B]:ASN:ND2	2.82	0.40
5:A:304:SAH:H8	10:A:522:HOH:O	2.21	0.40

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)
10:A:411:HOH:O	10:A:467:HOH:O[4_456]	1.57	0.63

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	233/221 (105%)	225 (97%)	8 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	205/190 (108%)	204 (100%)	1 (0%)	88	66

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	142	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	GLN
1	A	213	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 9 ligands modelled in this entry, 2 are monoatomic - leaving 7 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	#$|Z| > 2$
8	DMS	A	307[B]	-	3,3,3	2.22	1 (33%)	3,3,3	1.15	0
5	SAH	A	304	-	21,28,28	0.96	0	20,40,40	1.12	2 (10%)
8	DMS	A	307[A]	-	3,3,3	2.31	1 (33%)	3,3,3	0.95	0
7	7JG	A	306	2	28,29,29	1.28	3 (10%)	35,42,42	1.53	3 (8%)
4	SO4	A	303	-	4,4,4	0.45	0	6,6,6	0.22	0
9	D1D	A	308	6	6,8,8	0.21	0	6,10,10	1.97	3 (50%)
6	NHE	A	305	9	13,13,13	1.59	1 (7%)	16,17,17	2.72	2 (12%)

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	7JG	A	306	2	-	0/8/8/8	0/4/4/4
9	D1D	A	308	6	-	-	0/0/1/1
6	NHE	A	305	9	-	1/7/15/15	0/1/1/1
5	SAH	A	304	-	-	0/7/31/31	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	305	NHE	C2-S	-5.33	1.69	1.77
8	A	307[A]	DMS	O-S	3.94	1.76	1.50
8	A	307[B]	DMS	O-S	3.76	1.75	1.50
7	A	306	7JG	C19-N18	3.18	1.38	1.33
7	A	306	7JG	C3-C1	-2.58	1.38	1.42
7	A	306	7JG	C1-N16	2.57	1.40	1.37

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A	305	NHE	C1-N-C1'	9.96	133.69	114.14
7	A	306	7JG	C17-N16-C1	5.13	118.81	114.81
7	A	306	7JG	N16-C17-N18	-3.80	122.74	128.68
7	A	306	7JG	C17-N18-C19	3.71	122.10	115.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	A	308	D1D	O3-C3-C2	-3.37	102.76	110.22
5	A	304	SAH	O4'-C1'-C2'	-2.53	103.22	106.93
9	A	308	D1D	O3-C3-C4	2.33	113.93	109.91
6	A	305	NHE	C3'-C2'-C1'	2.08	115.03	111.11
9	A	308	D1D	O2-C2-C1	-2.07	106.34	109.91
5	A	304	SAH	C3'-C2'-C1'	2.03	104.03	100.98

There are no chirality outliers.

All (1) torsion outliers are listed below:

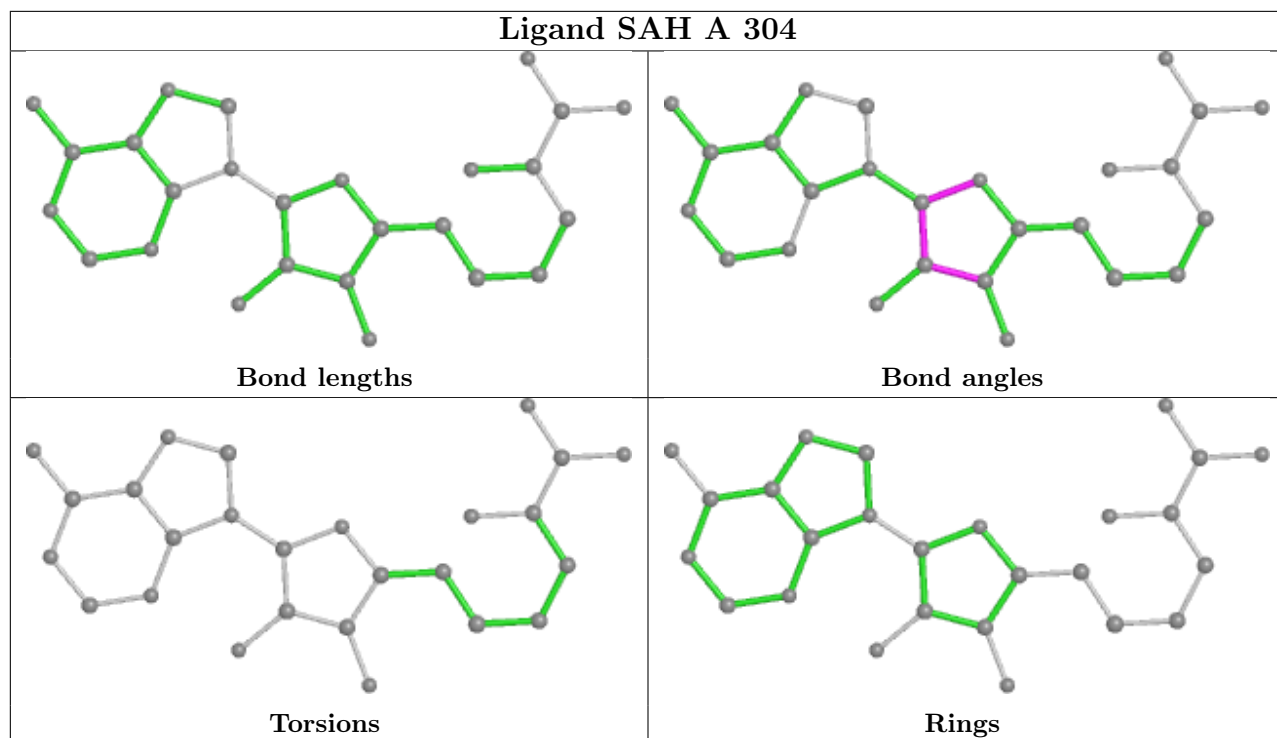| Mol	Chain	Res	Type	Atoms
6	A	305	NHE	C1-C2-S-O2

There are no ring outliers.

5 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	A	307[B]	DMS	8	0
5	A	304	SAH	1	0
8	A	307[A]	DMS	4	0
9	A	308	D1D	1	0
6	A	305	NHE	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.

Ligand SAH A 304

Bond lengths

Bond angles

Torsions

Rings

Ligand 7JG A 306

Bond lengths

Bond angles

Torsions

Rings
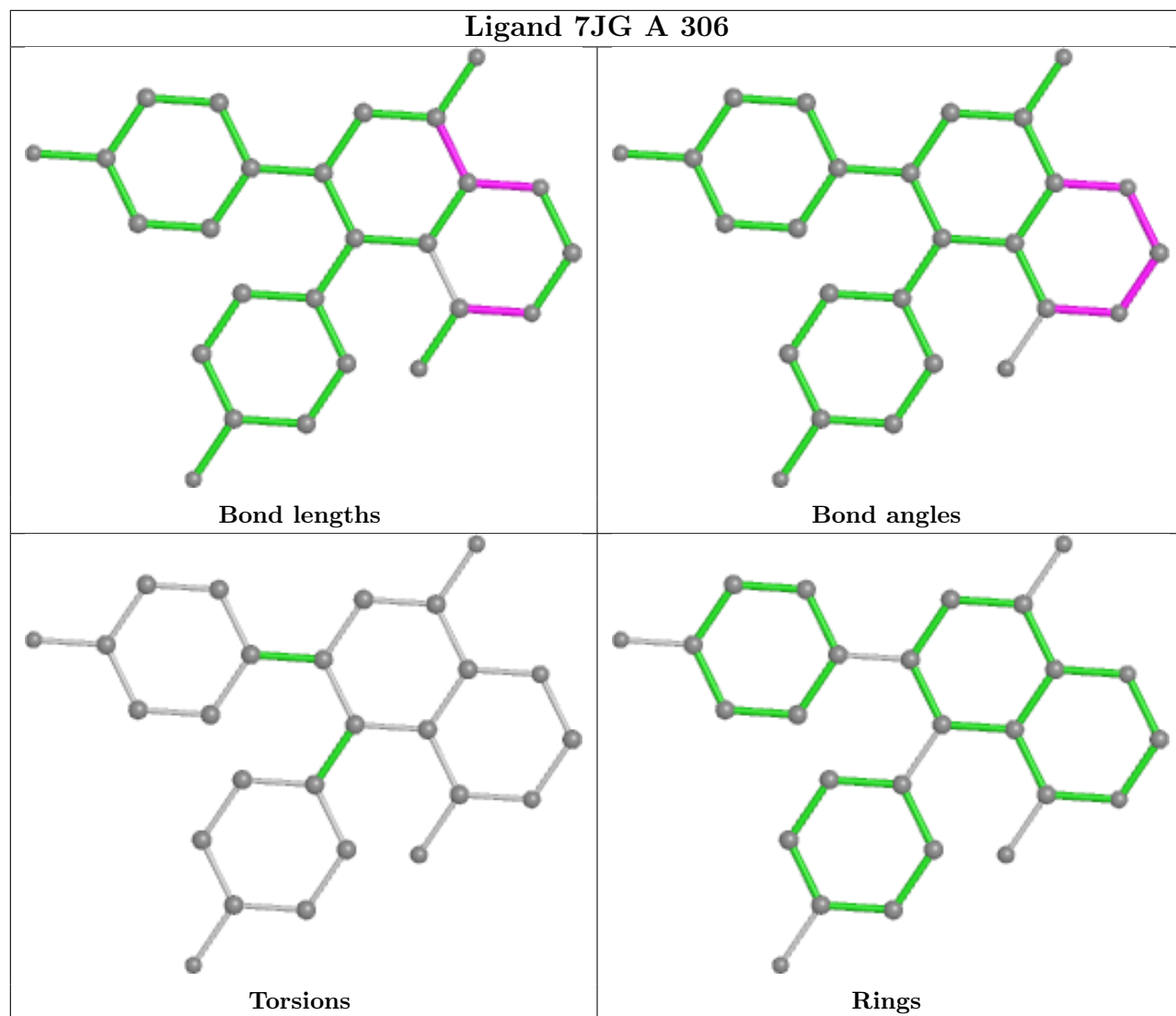
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	213/221 (96%)	-0.25	3 (1%)	75	72	7, 11, 21, 41	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	128	LYS	2.3
1	A	214	GLY	2.2
1	A	131	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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.
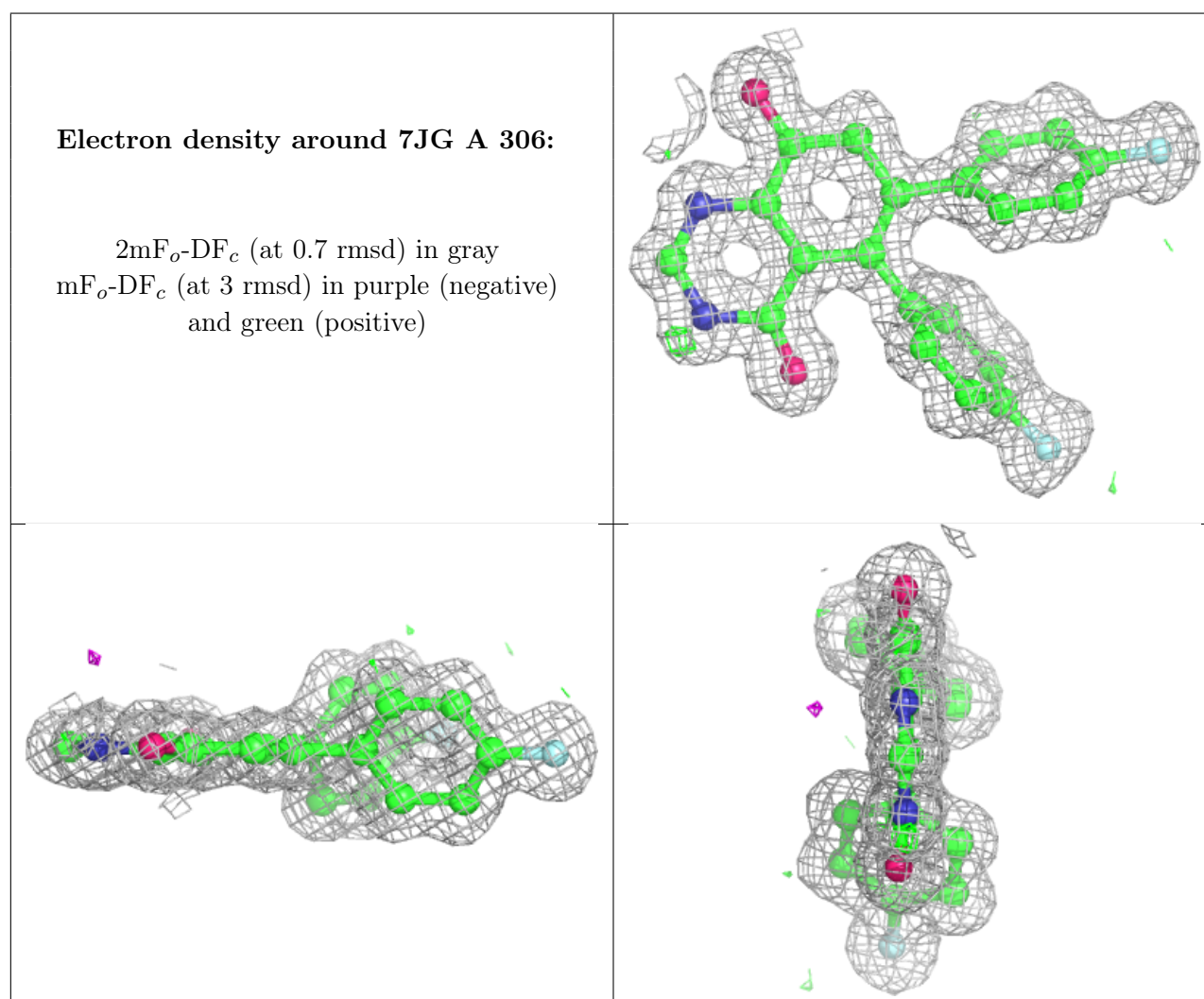
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	NHE	A	305	13/13	0.90	0.12	12,15,17,18	13
8	DMS	A	307[A]	4/4	0.92	0.20	18,19,23,24	4
8	DMS	A	307[B]	4/4	0.92	0.20	19,22,22,22	4
4	SO4	A	303	5/5	0.93	0.18	46,46,53,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
9	D1D	A	308	8/8	0.93	0.10	16,18,19,19	8
7	7JG	A	306	26/26	0.99	0.06	7,8,12,17	0
5	SAH	A	304	26/26	0.99	0.04	8,9,10,11	0
3	CL	A	302	1/1	1.00	0.07	16,16,16,16	0
2	MG	A	301	1/1	1.00	0.05	7,7,7,7	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 7JG A 306:

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

Electron density around SAH A 304:

$2mF_o$-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 ⓘ

There are no such residues in this entry.