

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

#### May 21, 2024 – 10:25 AM JST

PDB ID	:	7CLF
Title	:	PigF with SAH
Authors	:	Qiu, S.; Xu, D.; Han, N.; Sun, B.; Ran, T.; Wang, W.
Deposited on		
Resolution	:	1.98  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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

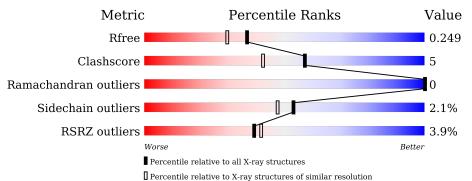
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

# 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 1.98 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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R <sub>free</sub>	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	346	88%	9%	·
1	В	346	82%	15%	•



#### $7 \mathrm{CLF}$

# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 10864 atoms, of which 5220 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 Methyltransferase domain-containing protein.

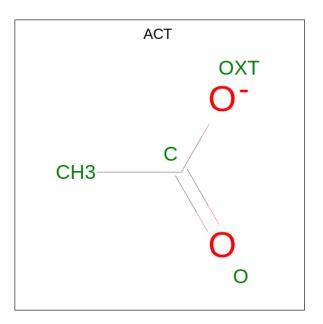
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
1	А	335	Total	С	Η	Ν	Ο	$\mathbf{S}$	101	0	0
	11	000	5216	1680	2586	456	484	10	101	0	0
1	Р	335	Total	С	Η	Ν	Ο	$\mathbf{S}$	103	1	0
	D	ააა	5225	1684	2592	455	484	10	103		0

Chain	Residue	Modelled	Actual	Comment	Reference
A	339	LEU	-	expression tag	UNP $Q5W249$
А	340	GLU	-	expression tag	UNP $Q5W249$
A	341	HIS	-	expression tag	UNP $Q5W249$
A	342	HIS	-	expression tag	UNP $Q5W249$
А	343	HIS	-	expression tag	UNP $Q5W249$
А	344	HIS	-	expression tag	UNP $Q5W249$
А	345	HIS	-	expression tag	UNP $Q5W249$
A	346	HIS	-	expression tag	UNP $Q5W249$
В	339	LEU	-	expression tag	UNP $Q5W249$
В	340	GLU	-	expression tag	UNP $Q5W249$
В	341	HIS	-	expression tag	UNP $Q5W249$
В	342	HIS	-	expression tag	UNP $Q5W249$
В	343	HIS	-	expression tag	UNP $Q5W249$
В	344	HIS	-	expression tag	UNP $Q5W249$
В	345	HIS	-	expression tag	UNP $Q5W249$
В	346	HIS	-	expression tag	UNP Q5W249

There are 16 discrepancies between the modelled and reference sequences:

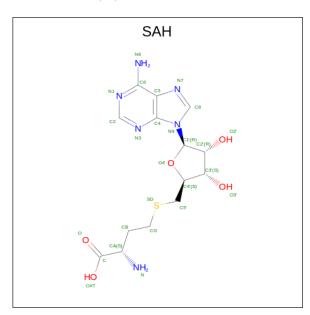
• Molecule 2 is ACETATE ION (three-letter code: ACT) (formula:  $C_2H_3O_2$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	А	1	Total 7				0	0
2	В	1	Total 7		H	O 2	0	0

• Molecule 3 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula:  $C_{14}H_{20}N_6O_5S$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
3	A	1	Total 44	C 14	Н 18		O 5	S 1	4	0



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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
3	В	1	Total 44		Н 18	N 6	O 5	S 1	4	0

• Molecule 4 is water.

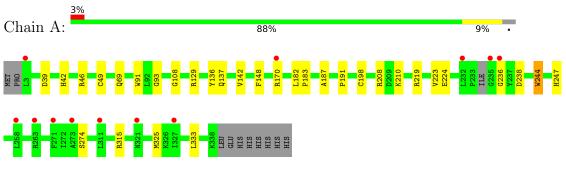
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	171	Total O 171 171	0	0
4	В	150	Total O 150 150	0	0



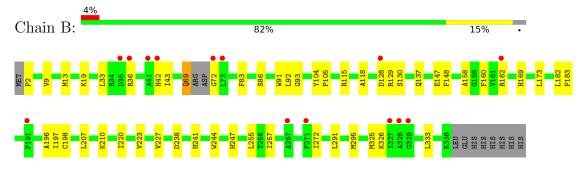
# 3 Residue-property plots (i)

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: Methyltransferase domain-containing protein



• Molecule 1: Methyltransferase domain-containing protein





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	43.90Å 109.20Å 63.90Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $93.10^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	19.68 - 1.98	Depositor
Resolution (A)	19.67 - 1.98	EDS
% Data completeness	99.5 (19.68-1.98)	Depositor
(in resolution range)	99.6 (19.67 - 1.98)	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.86 (at 1.99 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
D D.	0.188 , $0.249$	Depositor
$R, R_{free}$	0.187 , $0.249$	DCC
$R_{free}$ test set	2090 reflections $(5.04\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	23.1	Xtriage
Anisotropy	0.758	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39 , $43.2$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.48, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	10864	wwPDB-VP
Average B, all atoms $(Å^2)$	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.61% 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: ACT, SAH

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.43	0/2691	0.56	0/3646	
1	В	0.42	0/2694	0.59	1/3651~(0.0%)	
All	All	0.42	0/5385	0.57	1/7297~(0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	2	PRO	N-CA-CB	5.11	109.44	103.30

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	2630	2586	2576	23	0
1	В	2633	2592	2579	31	0
2	А	4	3	3	0	0
2	В	4	3	3	0	0
3	А	26	18	19	0	0
3	В	26	18	19	0	0
4	А	171	0	0	3	0
4	В	150	0	0	2	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes	
All	All	5644	5220	5199	52	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.

All (52) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:B:69:GLN:HE21	1:B:69:GLN:C	1.95	0.68
1:A:182:LEU:HB3	1:A:183:PRO:HD3	1.77	0.66
1:A:42:HIS:HB3	1:A:46:ARG:NH1	2.15	0.62
1:A:108:GLY:HA2	1:B:19:LYS:HE3	1.81	0.60
1:A:191:PRO:HA	1:A:219:ARG:HH21	1.66	0.60
1:A:191:PRO:HA	1:A:219:ARG:NH2	2.17	0.60
1:B:325:MET:HE2	1:B:333:LEU:HD12	1.86	0.58
1:B:69:GLN:CD	1:B:72:GLY:HA3	2.26	0.56
1:A:91:TRP:CZ2	1:A:93:GLY:HA3	2.41	0.55
1:A:170:ARG:NH1	1:A:236:GLY:O	2.37	0.55
1:A:208:ARG:NH1	4:A:504:HOH:O	2.32	0.54
1:A:170:ARG:NH2	4:A:501:HOH:O	2.18	0.54
1:A:244:TRP:CG	1:A:247:HIS:HE1	2.27	0.52
1:B:129:ARG:NH1	1:B:137[A]:GLN:OE1	2.32	0.52
1:B:86:SER:HA	1:B:91:TRP:CD1	2.46	0.51
1:B:91:TRP:CZ2	1:B:93:GLY:HA3	2.45	0.51
1:B:162:ARG:HH11	1:B:162:ARG:HG3	1.75	0.51
1:B:33:LEU:HD21	1:B:43:ILE:HD11	1.93	0.50
1:B:83:PHE:HB2	1:B:92:LEU:HG	1.94	0.50
1:A:129:ARG:HH12	1:A:137:GLN:HG3	1.75	0.50
1:B:104:TYR:HB3	1:B:105:PRO:HD3	1.94	0.49
1:B:173:LEU:HD23	1:B:196:ALA:HB3	1.94	0.48
1:B:198:CYS:HA	1:B:223:VAL:O	2.14	0.47
1:B:9:VAL:O	1:B:13:MET:HG2	2.14	0.47
1:A:39:ASP:OD1	1:A:42:HIS:ND1	2.41	0.47
1:A:91:TRP:CE2	1:A:93:GLY:HA3	2.50	0.46
1:A:325:MET:HB2	1:A:333:LEU:HB2	1.97	0.46
1:B:91:TRP:CE2	1:B:93:GLY:HA3	2.50	0.46
1:B:147:GLU:OE1	1:B:210:LYS:NZ	2.39	0.46
1:B:227:VAL:HG13	1:B:257:ILE:HG12	1.98	0.45
1:A:198:CYS:HA	1:A:223:VAL:O	2.16	0.44
1:A:187:ALA:O	1:A:219:ARG:NH2	2.51	0.44
1:B:36:ARG:HH22	1:B:42:HIS:HB3	1.81	0.44



	Fagen	Interatomic	Clash
Atom-1	Atom-2	0	
		distance (Å)	overlap (Å)
1:B:197:ILE:HG21	1:B:207:LEU:HD11	2.00	0.43
1:B:128:ASP:HA	4:B:531:HOH:O	2.18	0.43
1:B:183:PRO:HB2	1:B:220:ILE:HD13	2.00	0.43
1:A:49:CYS:SG	1:B:115:ARG:HA	2.59	0.43
1:B:169:HIS:HA	1:B:238:ASP:OD2	2.19	0.42
1:B:255:LEU:HD23	1:B:255:LEU:HA	1.92	0.42
1:B:69:GLN:OE1	1:B:72:GLY:HA3	2.20	0.42
1:A:274:SER:HB3	1:A:333:LEU:CD2	2.50	0.42
1:B:118:ALA:HB1	4:B:502:HOH:O	2.20	0.42
1:A:170:ARG:HG3	1:A:238:ASP:OD1	2.20	0.42
1:A:315:ARG:NH2	4:A:523:HOH:O	2.54	0.41
1:B:162:ARG:HG3	1:B:162:ARG:NH1	2.35	0.41
1:A:208:ARG:HH22	1:A:224:GLU:HG3	1.86	0.41
1:B:158:ALA:O	1:B:162:ARG:HB2	2.20	0.41
1:B:182:LEU:HB3	1:B:183:PRO:HD3	2.03	0.41
1:A:136:TYR:CD1	1:A:142:VAL:HG22	2.56	0.40
1:B:291:LEU:O	1:B:295:MET:HG2	2.21	0.40
1:A:42:HIS:HB3	1:A:46:ARG:HH12	1.83	0.40
1:B:241:HIS:HA	1:B:272:ILE:O	2.20	0.40

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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	Percentiles
1	А	331/346~(96%)	329~(99%)	2(1%)	0	100 100
1	В	332/346~(96%)	326~(98%)	6(2%)	0	100 100
All	All	663/692~(96%)	655~(99%)	8 (1%)	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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric Outlier		Percentiles		
1	А	267/278~(96%)	263~(98%)	4 (2%)	65 59		
1	В	267/278~(96%)	260~(97%)	7 (3%)	46 37		
All	All	534/556~(96%)	523~(98%)	11 (2%)	53 47		

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	69	GLN
1	А	148	PHE
1	А	210	LYS
1	А	244	TRP
1	В	69	GLN
1	В	130	SER
1	В	148	PHE
1	В	160	PHE
1	В	244	TRP
1	В	247	HIS
1	В	326	LYS

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

Mol	Chain	Res	Type
1	А	247	HIS
1	В	69	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)

4 ligands 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 Lin		Link	Bo	ond leng	$\mathbf{ths}$	Bond angles			
IVIOI	туре	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	SAH	А	402	-	24,28,28	1.29	2 (8%)	$25,\!40,\!40$	1.54	4 (16%)
2	ACT	А	401	-	3,3,3	1.12	0	3,3,3	1.66	1 (33%)
2	ACT	В	401	-	3,3,3	1.33	0	3,3,3	1.53	0
3	SAH	В	402	-	24,28,28	1.31	3 (12%)	$25,\!40,\!40$	1.55	3 (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.

I	Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
	3	SAH	А	402	-	-	1/11/31/31	0/3/3/3
	3	SAH	В	402	-	-	3/11/31/31	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	А	402	SAH	C2-N3	4.49	1.39	1.32
3	В	402	SAH	C2-N3	4.19	1.38	1.32
3	В	402	SAH	C2-N1	3.01	1.39	1.33
3	В	402	SAH	OXT-C	-2.23	1.23	1.30
3	А	402	SAH	C2-N1	2.20	1.38	1.33

All (8) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	В	402	SAH	N3-C2-N1	-5.20	120.56	128.68
3	А	402	SAH	N3-C2-N1	-5.12	120.67	128.68
3	В	402	SAH	OXT-C-O	-3.15	116.94	124.09
3	А	402	SAH	C5'-SD-CG	-2.78	93.93	102.27
3	А	402	SAH	OXT-C-O	-2.41	118.61	124.09
3	А	402	SAH	OXT-C-CA	2.19	120.84	113.38
3	В	402	SAH	C5'-SD-CG	-2.17	95.75	102.27
2	А	401	ACT	O-C-CH3	-2.09	114.19	122.33

There are no chirality outliers.

All (4) torsion outliers are listed below:

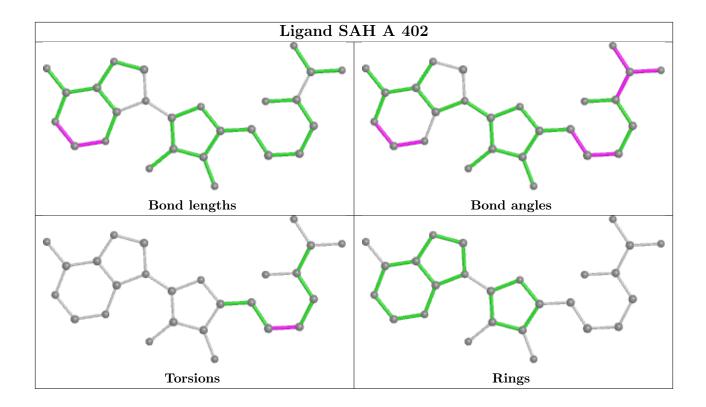
Mol	Chain	Res	Type	Atoms
3	В	402	SAH	CB-CG-SD-C5'
3	В	402	SAH	O-C-CA-CB
3	В	402	SAH	OXT-C-CA-CB
3	А	402	SAH	CB-CG-SD-C5'

There are no ring outliers.

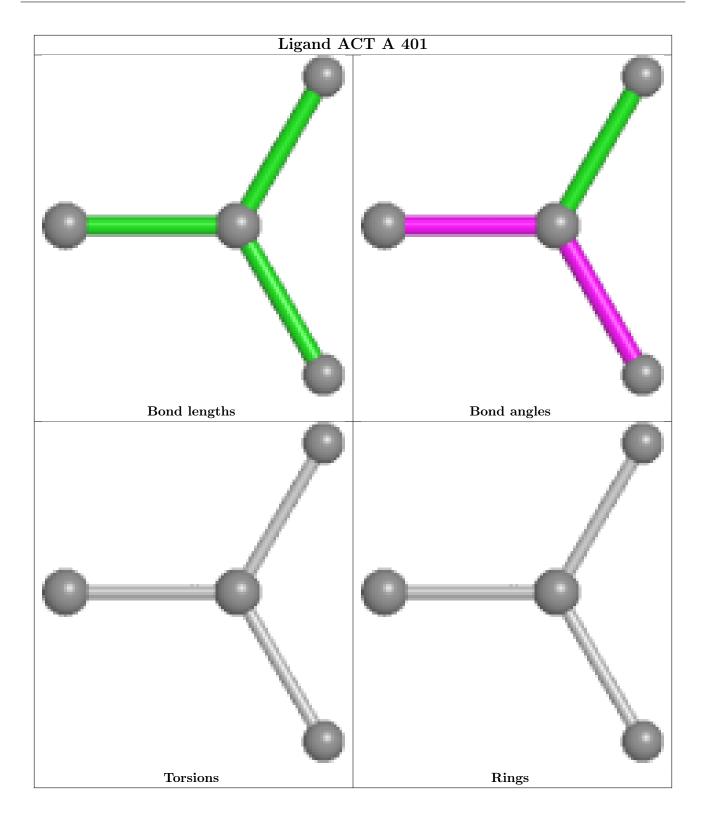
No monomer is involved in short contacts.

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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

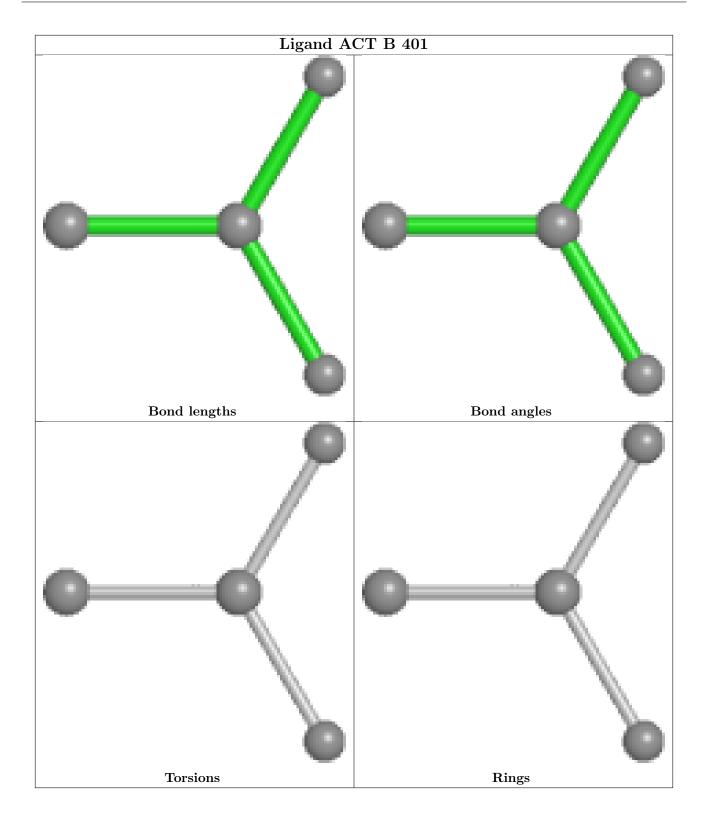




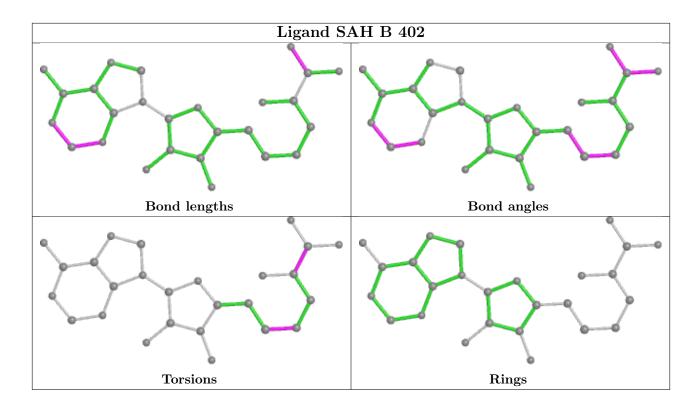












# 5.7 Other polymers (i)

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 <sup>2</sup> )	Q<0.9
1	А	335/346~(96%)	0.19	12 (3%) 42 45	15, 25, 38, 53	0
1	В	335/346~(96%)	0.30	14 (4%) 36 38	15, 26, 41, 54	0
All	All	670/692~(96%)	0.25	26 (3%) 39 42	15, 25, 39, 54	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	72	GLY	4.5
1	В	73	LEU	4.1
1	В	327	ILE	3.2
1	В	41	ALA	3.2
1	В	162	ARG	3.2
1	А	273	ALA	3.2
1	А	258	LEU	3.1
1	В	328	ALA	3.0
1	А	235	GLY	2.8
1	А	170	ARG	2.8
1	В	36	ARG	2.7
1	В	35	ASP	2.7
1	А	321	ASN	2.6
1	А	3	LEU	2.6
1	А	236	GLY	2.5
1	А	263	ARG	2.5
1	А	271	PHE	2.3
1	В	329	GLY	2.3
1	В	191	PRO	2.2
1	В	271	PHE	2.2
1	В	42	HIS	2.2
1	В	128	ASP	2.1
1	А	327	ILE	2.1
1	В	267	ALA	2.1



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Mol	Chain	Res	Type	RSRZ
1	А	232	LEU	2.0
1	А	311	LEU	2.0

### 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.

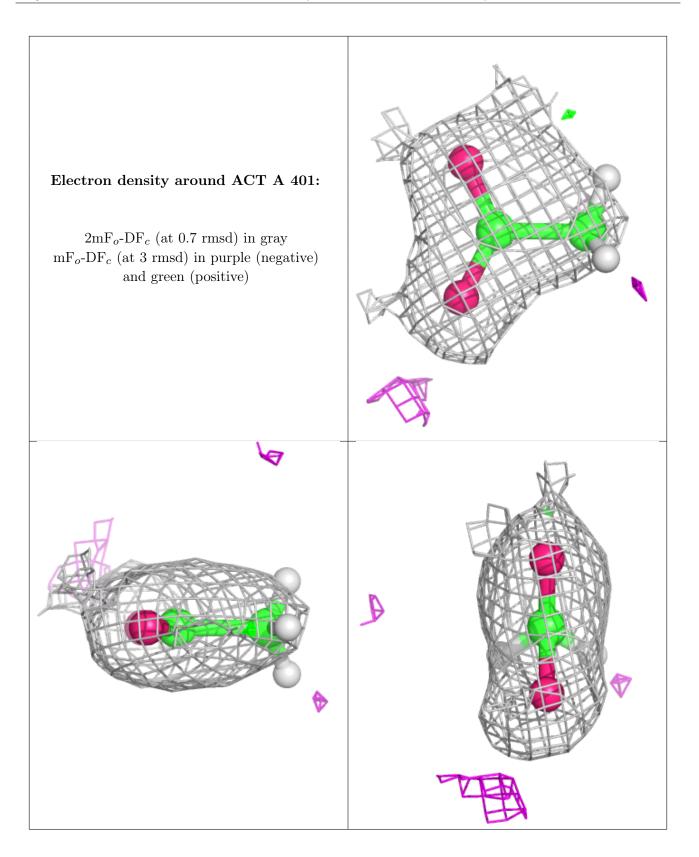
## 6.4 Ligands (i)

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.

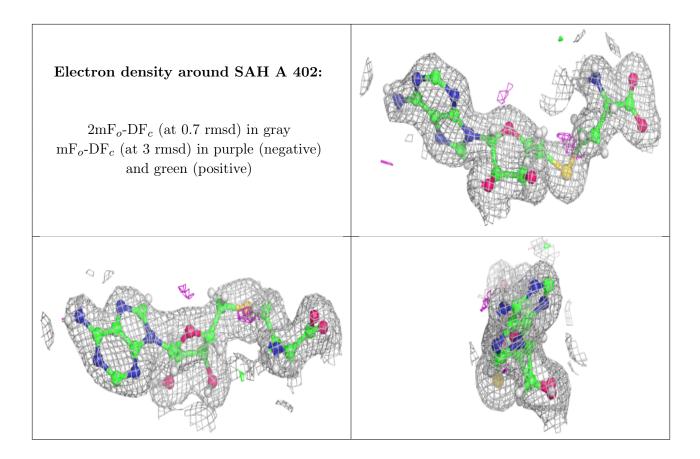
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
2	ACT	А	401	4/4	0.93	0.12	$28,\!30,\!32,\!35$	0
3	SAH	А	402	26/26	0.95	0.10	18,21,25,28	4
2	ACT	В	401	4/4	0.97	0.09	21,26,26,26	0
3	SAH	В	402	26/26	0.97	0.10	16,21,23,30	4

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.

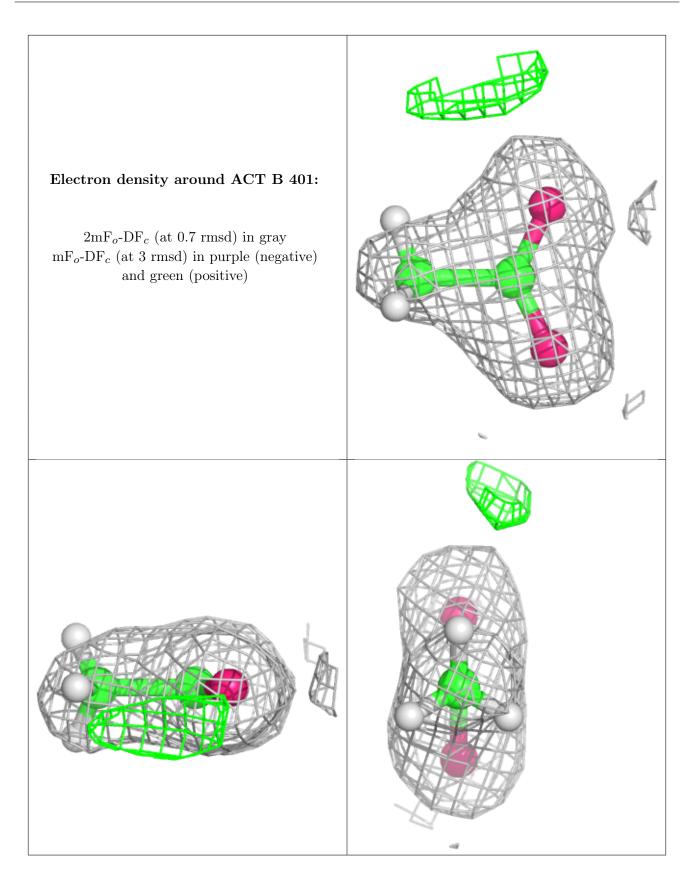




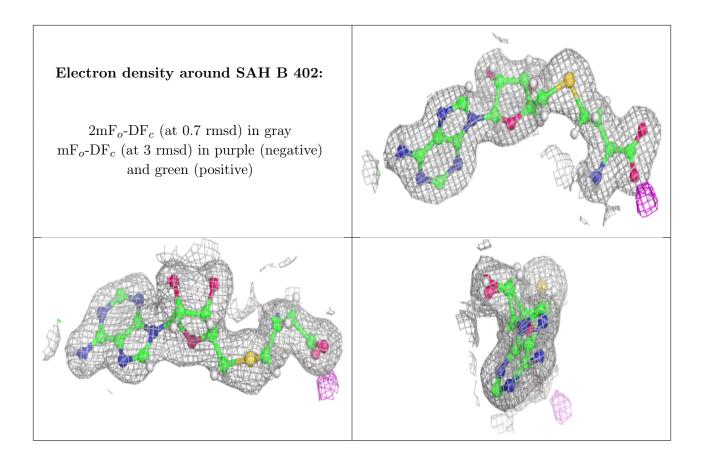












# 6.5 Other polymers (i)

There are no such residues in this entry.

