Full wwPDB X-ray Structure Validation Report (i)

May 25, 2020 – 09:55 pm BST

PDB ID	:	3H2B
Title	:	Crystal structure of the SAM-dependent methyltransferase cg3271 from Corynebacterium glutamicum in complex with S-adenosyl-L-homocysteine and pyrophosphate. Northeast Structural Genomics Consortium Target CgR113A
Authors	:	Forouhar, F.; Lew, S.; Seetharaman, J.; Sahdev, S.; Xiao, R.; Foote, E.L.; Ciccosanti, C.; Wang, D.; Everett, J.K.; Nair, R.; Acton, T.B.; Rost, B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)
Deposited on	:	2009-04-14
Resolution	:	2.00 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:

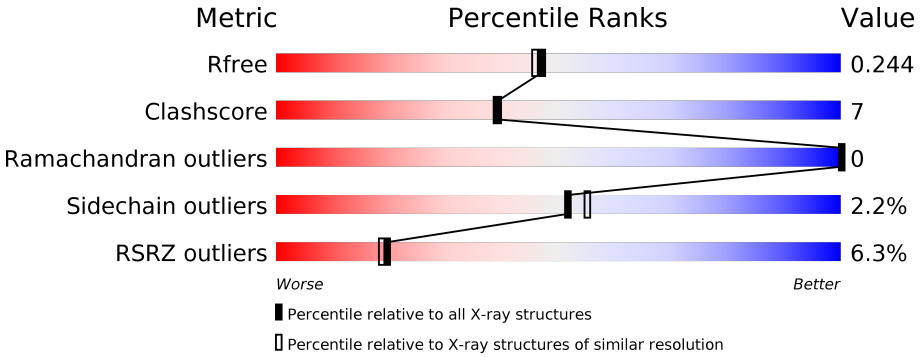
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.00 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 on 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	203	7%, 78%, 17%
1	B	203	5%, 78%, 18%

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
2	SAH	A	301	X	-	-	-
2	SAH	B	301	X	-	-	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3344 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.

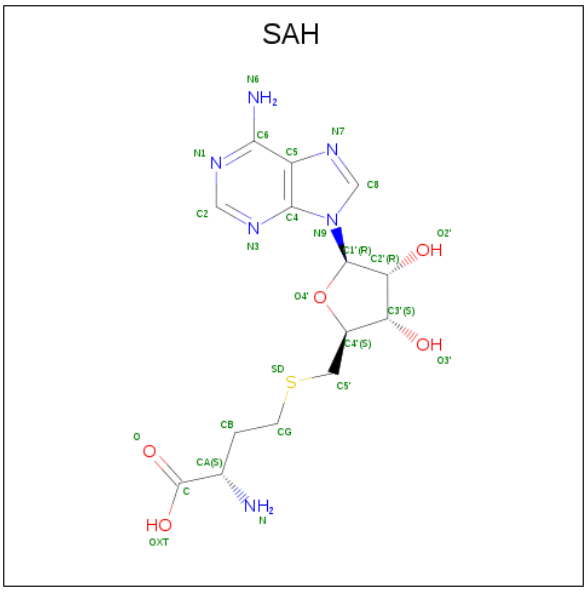
- Molecule 1 is a protein called SAM-dependent methyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	195	Total	C	N	O	Se	0	0	0
			1485	949	249	283	4			
1	B	196	Total	C	N	O	Se	0	0	0
			1490	952	250	284	4			

There are 16 discrepancies between the modelled and reference sequences:

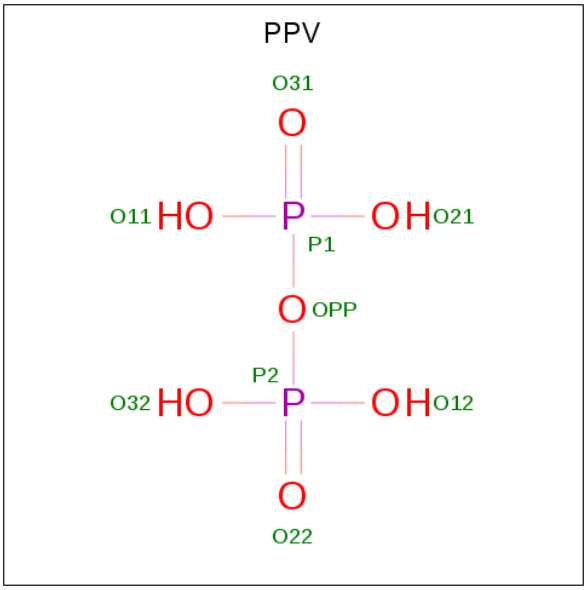
Chain	Residue	Modelled	Actual	Comment	Reference
A	253	LEU	-	EXPRESSION TAG	UNP Q6M1Q8
A	254	GLU	-	EXPRESSION TAG	UNP Q6M1Q8
A	255	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
A	256	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
A	257	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
A	258	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
A	259	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
A	260	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	253	LEU	-	EXPRESSION TAG	UNP Q6M1Q8
B	254	GLU	-	EXPRESSION TAG	UNP Q6M1Q8
B	255	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	256	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	257	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	258	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	259	HIS	-	EXPRESSION TAG	UNP Q6M1Q8
B	260	HIS	-	EXPRESSION TAG	UNP Q6M1Q8

- Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: $C_{14}H_{20}N_6O_5S$).



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

- Molecule 3 is PYROPHOSPHATE (three-letter code: PPV) (formula: $H_4O_7P_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	O	P		0	0
			9	7	2			

- Molecule 4 is water.

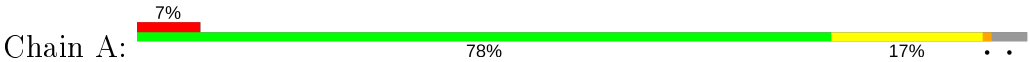
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	167	Total O 167 167	0	0
4	B	141	Total O 141 141	0	0

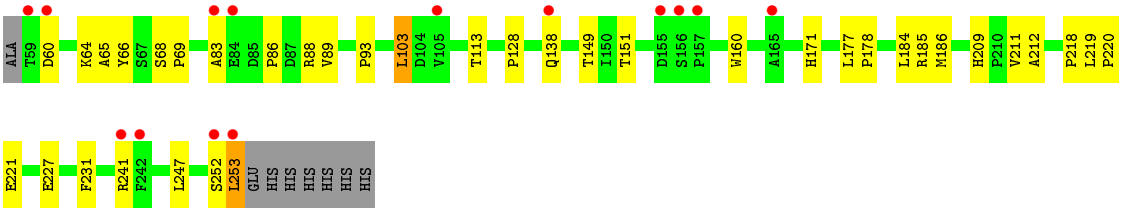
3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: SAM-dependent methyltransferase

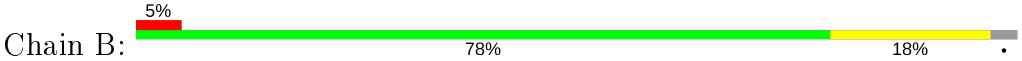
Chain A:

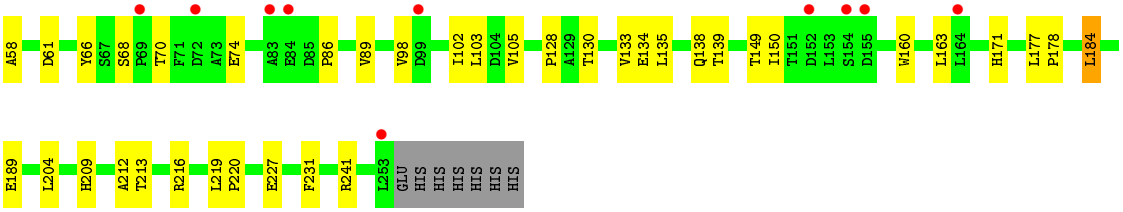




- Molecule 1: SAM-dependent methyltransferase

Chain B:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	70.83Å 72.42Å 74.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.97 – 2.00 29.61 – 2.00	Depositor EDS
% Data completeness (in resolution range)	83.3 (19.97-2.00) 97.7 (29.61-2.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	0.13	Depositor
$< I/\sigma(I) >$ [1]	2.49 (at 2.00Å)	Xtriage
Refinement program	CNS 1.2, REFMAC	Depositor
R, R_{free}	0.173 , 0.226 0.188 , 0.244	Depositor DCC
R_{free} test set	2467 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å^2)	19.5	Xtriage
Anisotropy	0.371	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 53.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.021 for k,h,-l	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	3344	wwPDB-VP
Average B, all atoms (Å^2)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.02% of the height of the origin peak. No significant pseudotranslation is detected.*

[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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SAH, PPV

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	0.33	0/1527	0.54	0/2087
1	B	0.33	0/1532	0.54	0/2094
All	All	0.33	0/3059	0.54	0/4181

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

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	1485	0	1426	20	0
1	B	1490	0	1431	24	0
2	A	26	0	18	1	0
2	B	26	0	18	2	0
3	A	9	0	0	0	0
4	A	167	0	0	1	0
4	B	141	0	0	1	0
All	All	3344	0	2893	44	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 7.

All (44) 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:B:68:SER:OG	1:B:70:THR:HG22	1.90	0.72
1:B:209:HIS:HB3	1:B:212:ALA:O	1.89	0.71
1:B:58:ALA:HB3	1:B:61:ASP:OD1	1.97	0.64
1:A:66:TYR:OH	1:A:171:HIS:HE1	1.82	0.63
1:B:74:GLU:HG3	1:B:135:LEU:HD21	1.82	0.61
1:A:66:TYR:CD2	2:A:301:SAH:H2'	2.36	0.61
1:A:185:ARG:NH2	1:A:252:SER:O	2.35	0.59
1:B:66:TYR:OH	1:B:171:HIS:HE1	1.87	0.58
1:A:83:ALA:HA	1:A:88:ARG:HH11	1.69	0.57
1:A:218:PRO:HB2	1:A:221:GLU:OE1	2.05	0.56
1:B:86:PRO:O	1:B:89:VAL:HG22	2.07	0.54
1:B:150:ILE:HG13	2:B:301:SAH:N1	2.22	0.54
1:A:65:ALA:HB3	1:A:211:VAL:HG13	1.91	0.52
1:A:247:LEU:HD12	1:A:247:LEU:C	2.29	0.52
1:A:253:LEU:HD22	1:A:253:LEU:N	2.24	0.51
1:B:160:TRP:O	1:B:189:GLU:HG3	2.12	0.50
1:B:163:LEU:HD13	1:B:184:LEU:HG	1.94	0.49
1:A:103:LEU:HB2	1:A:160:TRP:CG	2.48	0.49
1:B:130:THR:O	1:B:134:GLU:HG3	2.12	0.49
1:B:66:TYR:CD2	2:B:301:SAH:H2'	2.46	0.49
1:A:149:THR:OG1	1:A:151:THR:HG22	2.13	0.49
1:B:241:ARG:HG3	1:B:241:ARG:HH11	1.80	0.46
1:A:186:MSE:HE2	4:A:283:HOH:O	2.15	0.46
1:B:138:GLN:HG3	1:B:139:THR:N	2.30	0.46
1:A:227:GLU:HA	1:A:231:PHE:O	2.17	0.45
1:B:128:PRO:HB3	1:B:149:THR:HG22	1.98	0.45
1:B:204:LEU:HA	1:B:216:ARG:O	2.17	0.45
1:B:103:LEU:HB2	1:B:160:TRP:CG	2.51	0.44
1:A:209:HIS:HB3	1:A:212:ALA:O	2.16	0.44
1:A:60:ASP:O	1:A:64:LYS:HD3	2.17	0.44
1:A:177:LEU:HB3	1:A:178:PRO:HD3	2.00	0.44
1:A:128:PRO:HB3	1:A:149:THR:HG22	2.00	0.44
1:A:89:VAL:O	1:A:93:PRO:HG2	2.18	0.43
1:B:133:VAL:HG13	1:B:134:GLU:N	2.34	0.42
1:A:68:SER:HA	1:A:69:PRO:HD3	1.92	0.42
1:B:98:VAL:HG11	1:B:102:ILE:HG12	2.01	0.42
1:A:219:LEU:HB3	1:A:220:PRO:HD3	2.02	0.42
1:A:86:PRO:O	1:A:89:VAL:HG22	2.19	0.42
1:B:171:HIS:HD2	1:B:213:THR:O	2.01	0.42
1:B:103:LEU:HD12	1:B:105:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:LEU:HB3	1:B:220:PRO:HD3	2.02	0.41
1:B:227:GLU:HA	1:B:231:PHE:O	2.19	0.41
1:B:177:LEU:HB3	1:B:178:PRO:HD3	2.03	0.41
1:B:70:THR:HG23	4:B:288:HOH:O	2.21	0.40

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	A	193/203 (95%)	188 (97%)	5 (3%)	0	100	100
1	B	194/203 (96%)	191 (98%)	3 (2%)	0	100	100
All	All	387/406 (95%)	379 (98%)	8 (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	Analysed	Rotameric	Outliers	Percentiles	
1	A	156/159 (98%)	150 (96%)	6 (4%)	33	31
1	B	156/159 (98%)	155 (99%)	1 (1%)	86	90
All	All	312/318 (98%)	305 (98%)	7 (2%)	52	55

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	103	LEU
1	A	113	THR
1	A	138	GLN
1	A	184	LEU
1	A	241	ARG
1	A	253	LEU
1	B	184	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	146	HIS
1	A	171	HIS
1	B	138	GLN
1	B	171	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry

3 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	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	PPV	A	302	-	6,8,8	0.91	0	13,13,13	1.15	1 (7%)
2	SAH	B	301	-	21,28,28	1.41	4 (19%)	20,40,40	1.55	4 (20%)
2	SAH	A	301	-	21,28,28	1.50	4 (19%)	20,40,40	1.59	4 (20%)

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
3	PPV	A	302	-	-	4/6/6/6	-
2	SAH	B	301	-	1/1/6/6	1/7/31/31	0/3/3/3
2	SAH	A	301	-	1/1/6/6	1/7/31/31	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	SAH	C4-N3	3.87	1.41	1.35
2	A	301	SAH	O4'-C1'	3.64	1.46	1.41
2	B	301	SAH	O4'-C1'	3.61	1.46	1.41
2	B	301	SAH	C4-N3	3.60	1.40	1.35
2	A	301	SAH	C3'-C4'	2.76	1.60	1.53
2	B	301	SAH	O3'-C3'	2.28	1.48	1.43
2	B	301	SAH	C3'-C4'	2.27	1.58	1.53
2	A	301	SAH	O3'-C3'	2.13	1.48	1.43

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	301	SAH	CB-CG-SD	4.01	122.30	113.31
2	A	301	SAH	CB-CG-SD	3.59	121.37	113.31
2	A	301	SAH	O4'-C1'-C2'	3.53	112.09	106.93
2	B	301	SAH	O4'-C1'-C2'	2.94	111.22	106.93
2	A	301	SAH	C3'-C2'-C1'	2.93	105.39	100.98
2	B	301	SAH	C3'-C2'-C1'	2.67	105.00	100.98
2	A	301	SAH	O4'-C4'-C3'	2.43	109.93	105.11
3	A	302	PPV	O21-P1-OPP	2.26	112.21	104.64
2	B	301	SAH	O4'-C4'-C3'	2.16	109.38	105.11

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	B	301	SAH	C1'
2	A	301	SAH	C1'

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	302	PPV	P1-OPP-P2-O12
2	B	301	SAH	CB-CG-SD-C5'
2	A	301	SAH	CB-CG-SD-C5'
3	A	302	PPV	P2-OPP-P1-O11
3	A	302	PPV	P2-OPP-P1-O21
3	A	302	PPV	P1-OPP-P2-O32

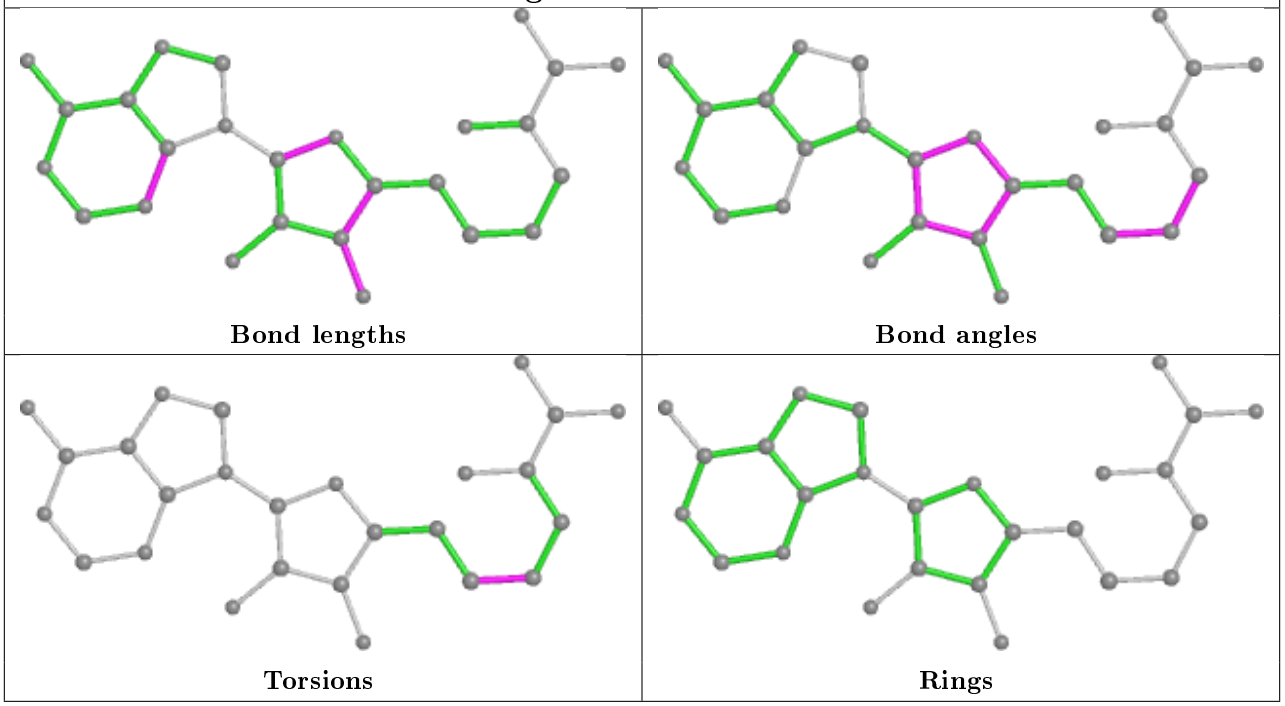
There are no ring outliers.

2 monomers are involved in 3 short contacts:

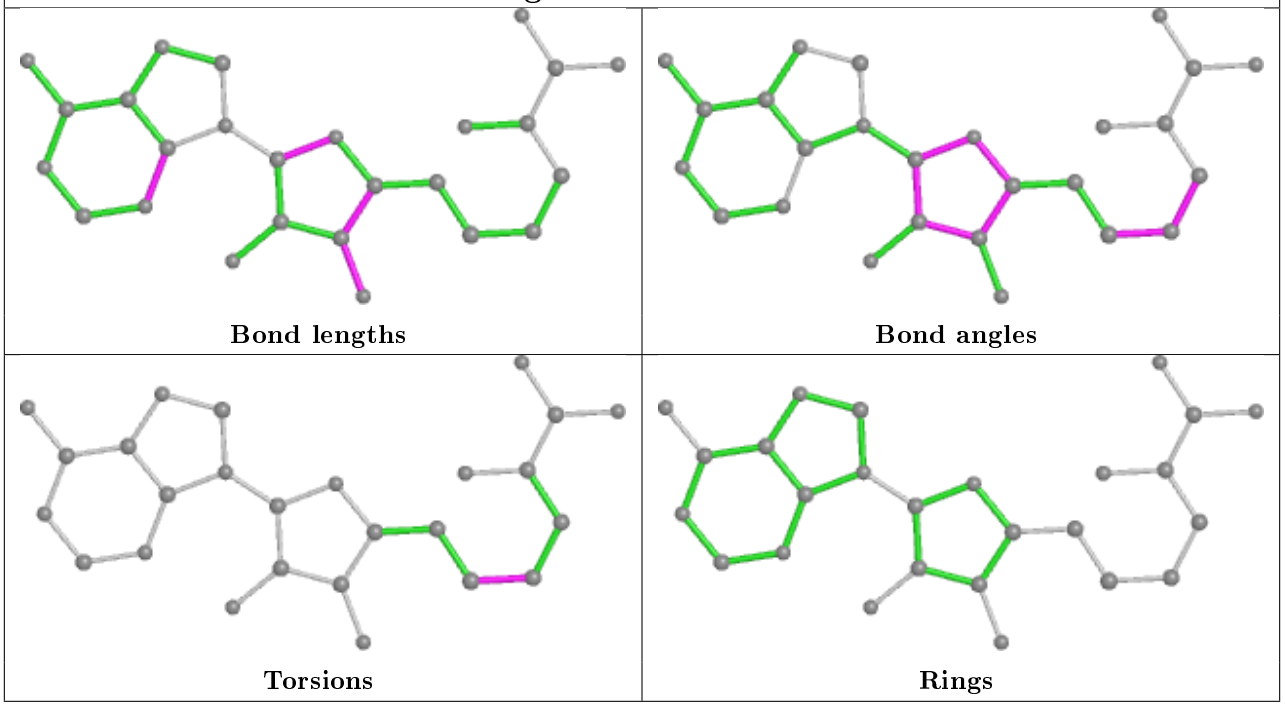
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	301	SAH	2	0
2	A	301	SAH	1	0

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.

Ligand SAH B 301



Ligand SAH A 301



5.7 Other polymers (i)

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, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	191/203 (94%)	0.39	14 (7%)	15	14	9, 18, 37, 53	0
1	B	192/203 (94%)	0.40	10 (5%)	27	26	9, 18, 39, 49	0
All	All	383/406 (94%)	0.39	24 (6%)	20	19	9, 18, 38, 53	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	157	PRO	4.6
1	A	155	ASP	4.4
1	A	253	LEU	4.3
1	B	155	ASP	4.1
1	A	156	SER	3.7
1	B	253	LEU	3.4
1	B	154	SER	3.4
1	B	69	PRO	3.3
1	A	242	PHE	3.1
1	A	60	ASP	3.0
1	A	83	ALA	2.6
1	A	84	GLU	2.6
1	A	165	ALA	2.5
1	A	241	ARG	2.5
1	B	72	ASP	2.4
1	A	252	SER	2.3
1	B	83	ALA	2.3
1	B	164	LEU	2.3
1	A	59	THR	2.3
1	B	84	GLU	2.3
1	A	138	GLN	2.2
1	A	105	VAL	2.1
1	B	99	ASP	2.0
1	B	152	ASP	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 carbohydrates in this entry.

6.4 Ligands (i)

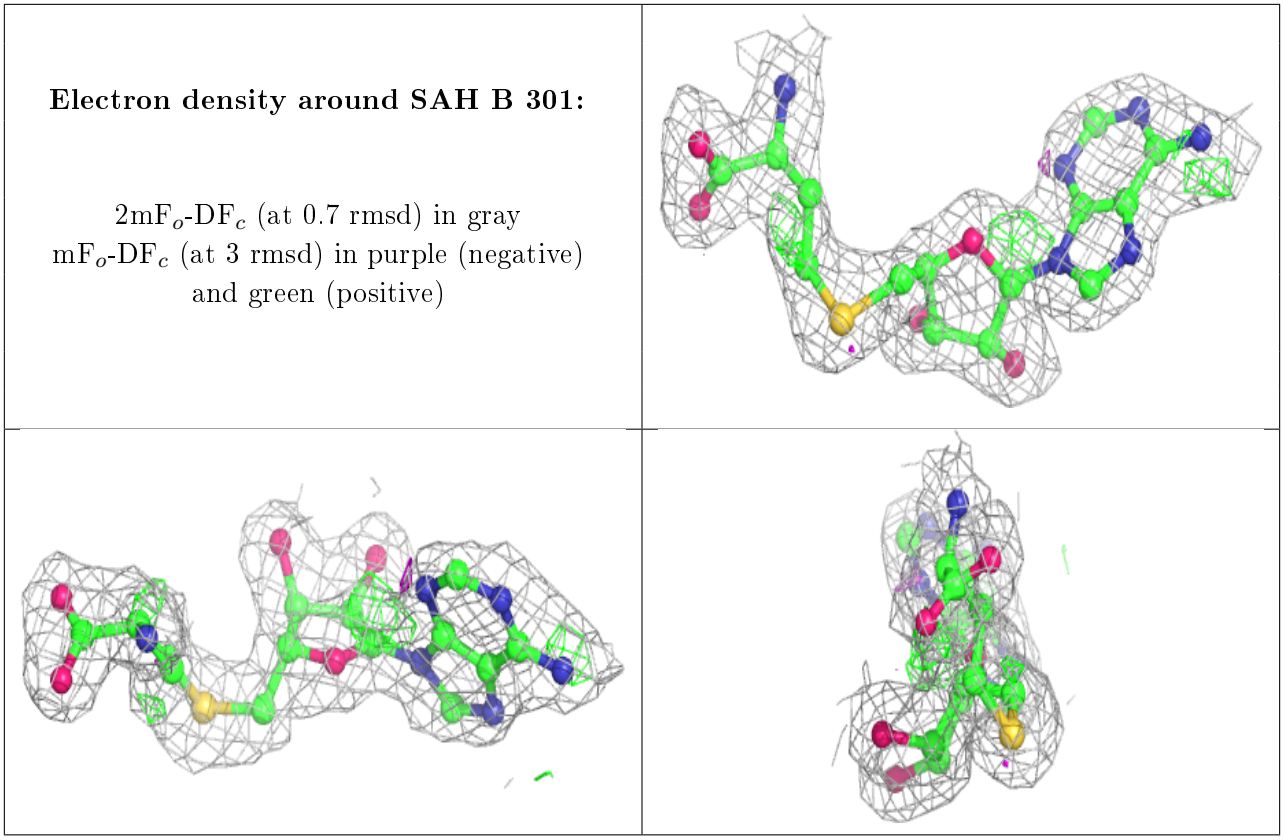
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	PPV	A	302	9/9	0.84	0.26	20,27,30,34	0
2	SAH	B	301	26/26	0.89	0.18	10,19,33,34	0
2	SAH	A	301	26/26	0.91	0.16	10,16,21,31	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.

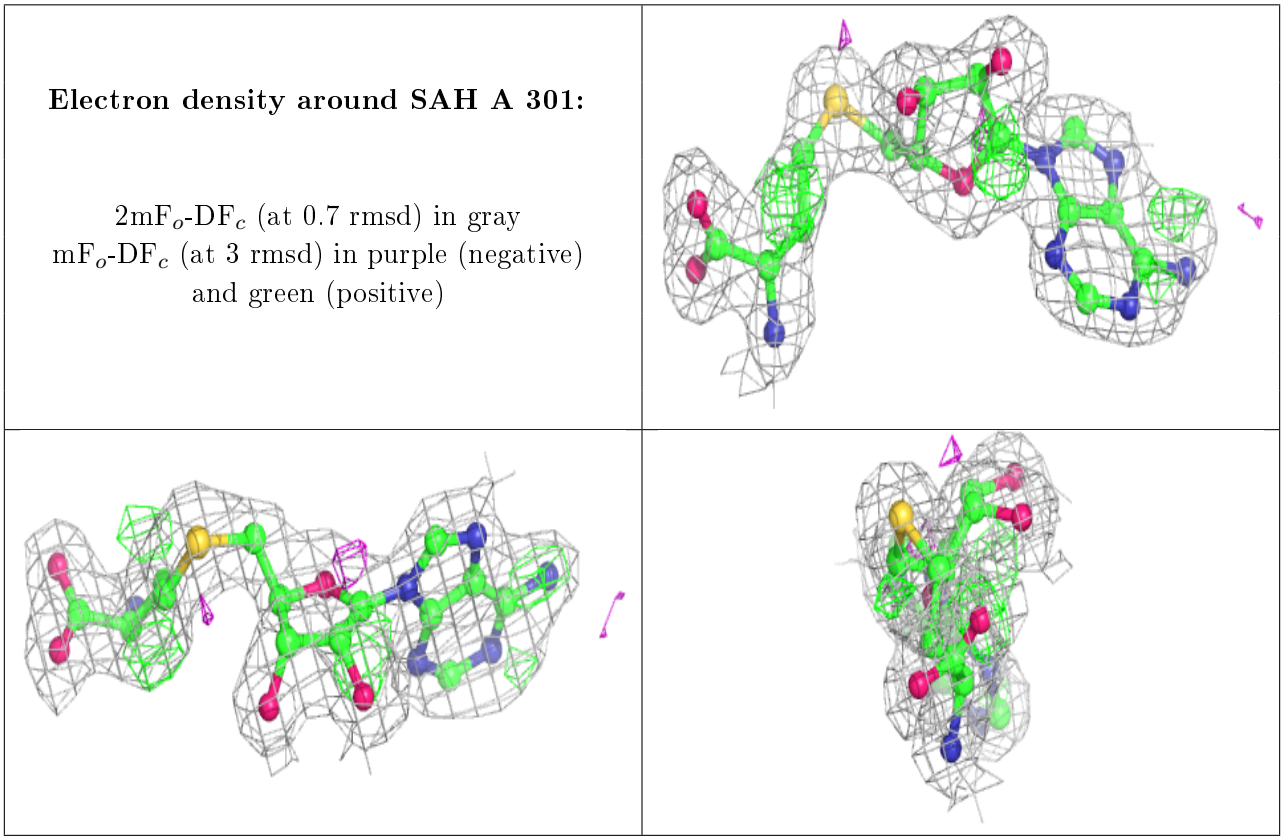
Electron density around SAH B 301:

$2mF_o$-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 301:

$2mF_o$-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 (i)

There are no such residues in this entry.