



wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 13, 2022 – 10:36 AM EDT

PDB ID : 7V0E
Title : Crystal structure of the macro-oligomeric form of DNMT3B methyltransferase domain.
Authors : Gao, L.; Lu, J.; Song, J.
Deposited on : 2022-05-10
Resolution : 3.27 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 ⓘ symbol.

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 : 2.28.1
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) : 2.28.1

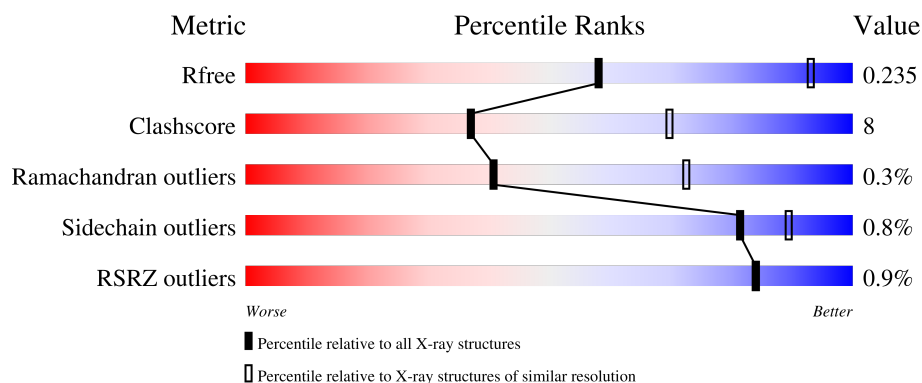
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.27 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	1177 (3.32-3.24)
Clashscore	141614	1044 (3.30-3.26)
Ramachandran outliers	138981	1026 (3.30-3.26)
Sidechain outliers	138945	1025 (3.30-3.26)
RSRZ outliers	127900	1141 (3.32-3.24)

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 $\leq 5\%$. 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	285	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 14%, green 80%, grey 5%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 80% 14% • 5% </div> </div>
1	B	285	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green 78%, yellow 18%, grey 4%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> 78% 18% • • </div> </div>
1	C	285	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 18%, green 78%, grey 4%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 78% 18% • • </div> </div>
1	D	285	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 18%, green 77%, grey 4%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 77% 18% • • </div> </div>
1	E	285	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 16%, green 76%, grey 7%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 76% 16% 7% </div> </div>

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Mol	Chain	Length	Quality of chain
1	F	285	<div><div></div><div>75%</div><div>17%</div><div>8%</div></div>
1	G	285	<div><div></div><div>78%</div><div>18%</div><div>• •</div></div>
1	H	285	<div><div>%</div><div></div><div>74%</div><div>19%</div><div>7%</div></div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 17257 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 DNA (cytosine-5)-methyltransferase 3B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	271	Total	C	N	O	S	0	1	0
			2140	1378	371	379	12			
1	B	275	Total	C	N	O	S	0	0	0
			2160	1390	375	383	12			
1	C	274	Total	C	N	O	S	0	0	0
			2153	1386	373	382	12			
1	D	275	Total	C	N	O	S	0	0	0
			2155	1386	374	383	12			
1	E	264	Total	C	N	O	S	0	0	0
			2094	1349	364	369	12			
1	F	263	Total	C	N	O	S	0	0	0
			2073	1339	361	361	12			
1	G	273	Total	C	N	O	S	0	0	0
			2139	1378	370	379	12			
1	H	265	Total	C	N	O	S	0	0	0
			2106	1358	365	371	12			

- Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: C₁₄H₂₀N₆O₅S) (labeled as "Ligand of Interest" by depositor).



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		
2	C	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	D	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	E	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	F	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	G	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	H	1	Total	C	N	O	S	0	0
			26	14	6	5	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	6	Total	O	0	0
			6	6		
3	B	3	Total	O	0	0
			3	3		
3	C	2	Total	O	0	0
			2	2		
3	D	6	Total	O	0	0
			6	6		

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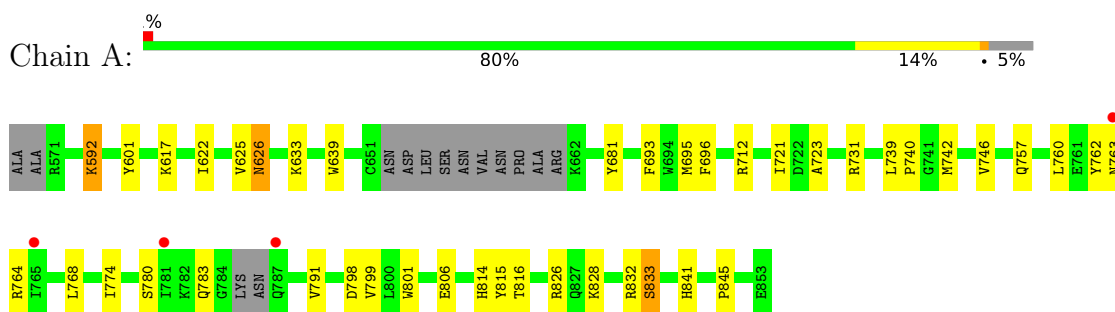
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	3	Total 3	O 3	0	0
3	F	4	Total 4	O 4	0	0
3	G	2	Total 2	O 2	0	0
3	H	3	Total 3	O 3	0	0

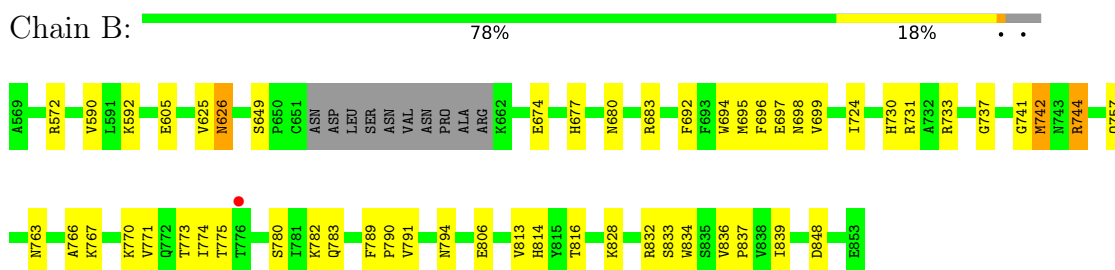
3 Residue-property plots [i](#)

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.

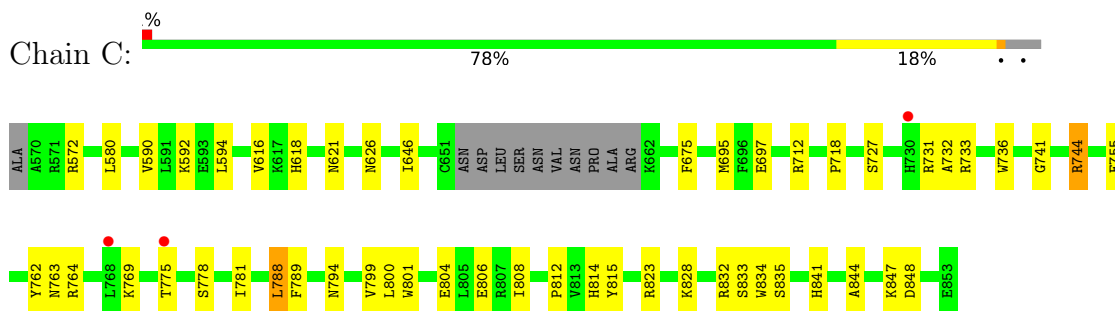
- Molecule 1: DNA (cytosine-5)-methyltransferase 3B



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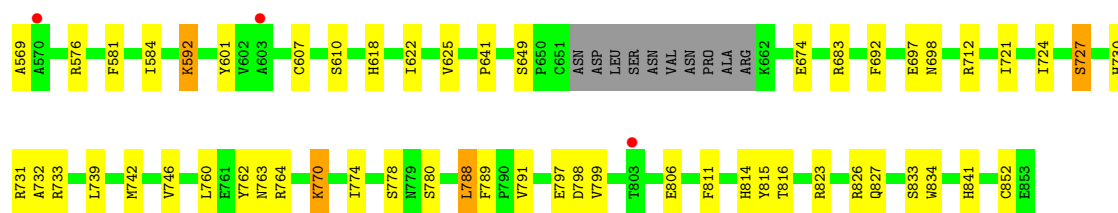


- Molecule 1: DNA (cytosine-5)-methyltransferase 3B

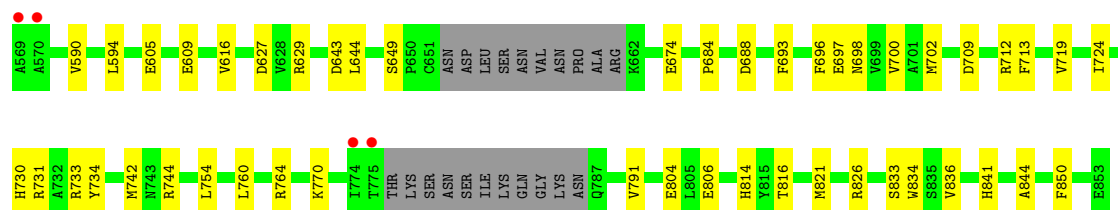
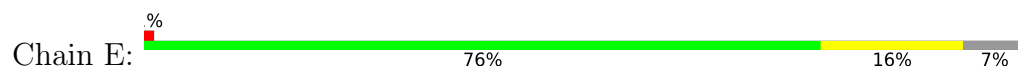


- Molecule 1: DNA (cytosine-5)-methyltransferase 3B

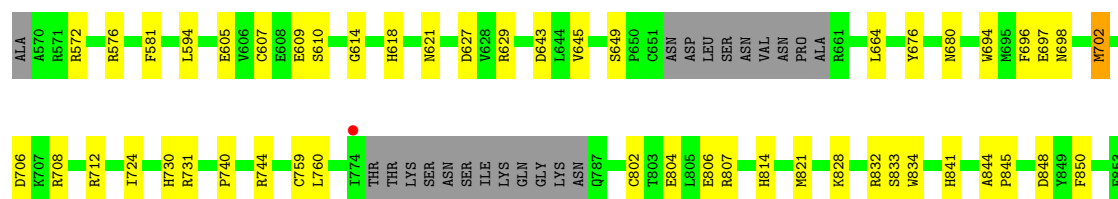




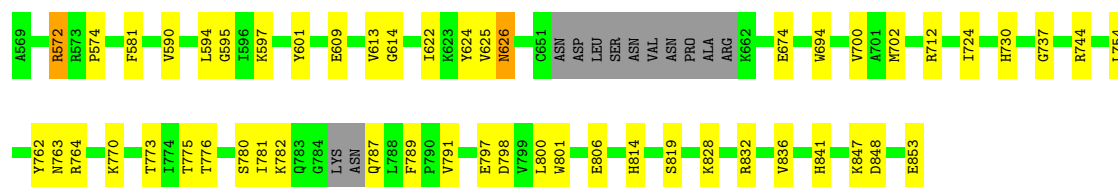
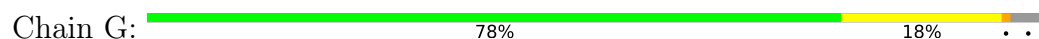
• Molecule 1: DNA (cytosine-5)-methyltransferase 3B



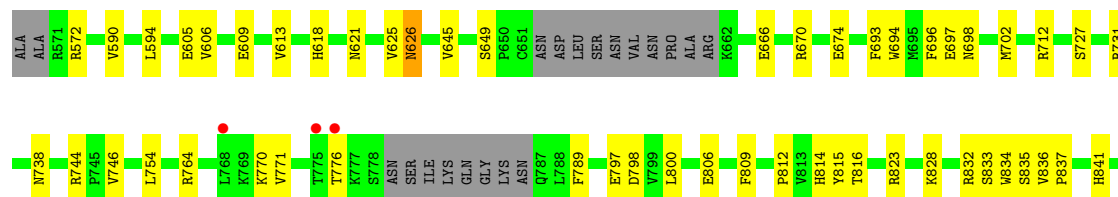
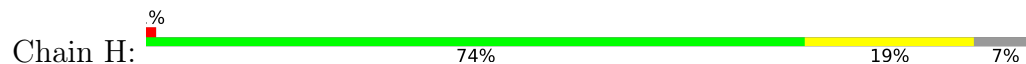
• Molecule 1: DNA (cytosine-5)-methyltransferase 3B



• Molecule 1: DNA (cytosine-5)-methyltransferase 3B



• Molecule 1: DNA (cytosine-5)-methyltransferase 3B





4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	164.39Å 164.39Å 209.18Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	84.29 – 3.27 84.29 – 3.27	Depositor EDS
% Data completeness (in resolution range)	95.3 (84.29-3.27) 95.2 (84.29-3.27)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.55 (at 3.26Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.206 , 0.235 0.206 , 0.235	Depositor DCC
R_{free} test set	2021 reflections (2.17%)	wwPDB-VP
Wilson B-factor (Å ²)	77.7	Xtriage
Anisotropy	0.031	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 38.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.418 for -h,-k,l 0.052 for h,-h-k,-l 0.047 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	17257	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.57% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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.

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: 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	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.37	0/2189	0.52	0/2961
1	B	0.41	0/2210	0.52	0/2989
1	C	0.40	0/2203	0.53	0/2980
1	D	0.38	0/2205	0.52	0/2985
1	E	0.37	0/2143	0.51	0/2897
1	F	0.36	0/2122	0.54	0/2870
1	G	0.37	0/2188	0.51	0/2959
1	H	0.38	0/2155	0.53	0/2912
All	All	0.38	0/17415	0.52	0/23553

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	2140	0	2091	26	0
1	B	2160	0	2123	36	0
1	C	2153	0	2108	41	0
1	D	2155	0	2103	35	0
1	E	2094	0	2065	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	2073	0	2036	29	0
1	G	2139	0	2101	37	0
1	H	2106	0	2086	39	0
2	A	26	0	19	0	0
2	B	26	0	19	1	0
2	C	26	0	19	0	0
2	D	26	0	19	1	0
2	E	26	0	19	1	0
2	F	26	0	19	2	0
2	G	26	0	19	1	0
2	H	26	0	19	0	0
3	A	6	0	0	2	0
3	B	3	0	0	0	0
3	C	2	0	0	1	0
3	D	6	0	0	1	0
3	E	3	0	0	0	0
3	F	4	0	0	1	0
3	G	2	0	0	0	0
3	H	3	0	0	0	0
All	All	17257	0	16865	265	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 8.

The worst 5 of 265 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:G:724:ILE:HD12	1:G:730:HIS:CD2	1.51	1.44
1:C:781:ILE:HG22	1:C:789:PHE:CE2	1.79	1.18
1:H:625:VAL:O	1:H:626:ASN:ND2	1.87	1.08
1:G:724:ILE:CD1	1:G:730:HIS:CD2	2.38	1.05
1:B:741:GLY:O	1:B:744:ARG:HD3	1.60	0.98

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	266/285 (93%)	257 (97%)	8 (3%)	1 (0%)	34	67
1	B	271/285 (95%)	261 (96%)	9 (3%)	1 (0%)	34	67
1	C	270/285 (95%)	258 (96%)	11 (4%)	1 (0%)	34	67
1	D	271/285 (95%)	262 (97%)	8 (3%)	1 (0%)	34	67
1	E	258/285 (90%)	249 (96%)	9 (4%)	0	100	100
1	F	257/285 (90%)	246 (96%)	11 (4%)	0	100	100
1	G	267/285 (94%)	256 (96%)	10 (4%)	1 (0%)	34	67
1	H	259/285 (91%)	249 (96%)	9 (4%)	1 (0%)	34	67
All	All	2119/2280 (93%)	2038 (96%)	75 (4%)	6 (0%)	41	72

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	626	ASN
1	B	626	ASN
1	H	626	ASN
1	G	626	ASN
1	C	626	ASN

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	221/247 (90%)	219 (99%)	2 (1%)	78	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	224/247 (91%)	222 (99%)	2 (1%)	78	87
1	C	222/247 (90%)	219 (99%)	3 (1%)	67	82
1	D	222/247 (90%)	218 (98%)	4 (2%)	59	78
1	E	219/247 (89%)	219 (100%)	0	100	100
1	F	214/247 (87%)	212 (99%)	2 (1%)	78	87
1	G	222/247 (90%)	221 (100%)	1 (0%)	88	93
1	H	222/247 (90%)	222 (100%)	0	100	100
All	All	1766/1976 (89%)	1752 (99%)	14 (1%)	81	89

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	592	LYS
1	D	727	SER
1	G	572	ARG
1	F	702	MET
1	F	708	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	841	HIS
1	H	621	ASN
1	H	787	GLN
1	C	794	ASN
1	C	841	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 [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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$
2	SAH	B	901	-	21,28,28	1.17	2 (9%)	20,40,40	1.65	2 (10%)
2	SAH	F	901	-	21,28,28	1.18	2 (9%)	20,40,40	1.51	2 (10%)
2	SAH	E	901	-	21,28,28	1.16	2 (9%)	20,40,40	1.54	3 (15%)
2	SAH	D	901	-	21,28,28	1.18	2 (9%)	20,40,40	1.58	3 (15%)
2	SAH	H	901	-	21,28,28	1.20	2 (9%)	20,40,40	1.47	1 (5%)
2	SAH	C	901	-	21,28,28	1.12	2 (9%)	20,40,40	1.55	3 (15%)
2	SAH	G	901	-	21,28,28	1.16	2 (9%)	20,40,40	1.59	2 (10%)
2	SAH	A	901	-	21,28,28	1.27	3 (14%)	20,40,40	1.63	3 (15%)

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
2	SAH	B	901	-	-	2/7/31/31	0/3/3/3
2	SAH	F	901	-	-	3/7/31/31	0/3/3/3
2	SAH	E	901	-	-	2/7/31/31	0/3/3/3
2	SAH	D	901	-	-	3/7/31/31	0/3/3/3
2	SAH	H	901	-	-	2/7/31/31	0/3/3/3
2	SAH	C	901	-	-	2/7/31/31	0/3/3/3
2	SAH	G	901	-	-	3/7/31/31	0/3/3/3
2	SAH	A	901	-	-	3/7/31/31	0/3/3/3

The worst 5 of 17 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	901	SAH	C2-N3	3.98	1.38	1.32
2	E	901	SAH	C2-N3	3.91	1.38	1.32
2	D	901	SAH	C2-N3	3.81	1.38	1.32
2	F	901	SAH	C2-N3	3.75	1.38	1.32
2	A	901	SAH	C2-N3	3.74	1.38	1.32

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	901	SAH	N3-C2-N1	-5.98	119.33	128.68
2	G	901	SAH	N3-C2-N1	-5.58	119.96	128.68
2	F	901	SAH	N3-C2-N1	-5.47	120.13	128.68
2	D	901	SAH	N3-C2-N1	-5.32	120.36	128.68
2	A	901	SAH	N3-C2-N1	-5.19	120.57	128.68

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	901	SAH	N-CA-CB-CG
2	A	901	SAH	C-CA-CB-CG
2	B	901	SAH	N-CA-CB-CG
2	B	901	SAH	C-CA-CB-CG
2	C	901	SAH	N-CA-CB-CG

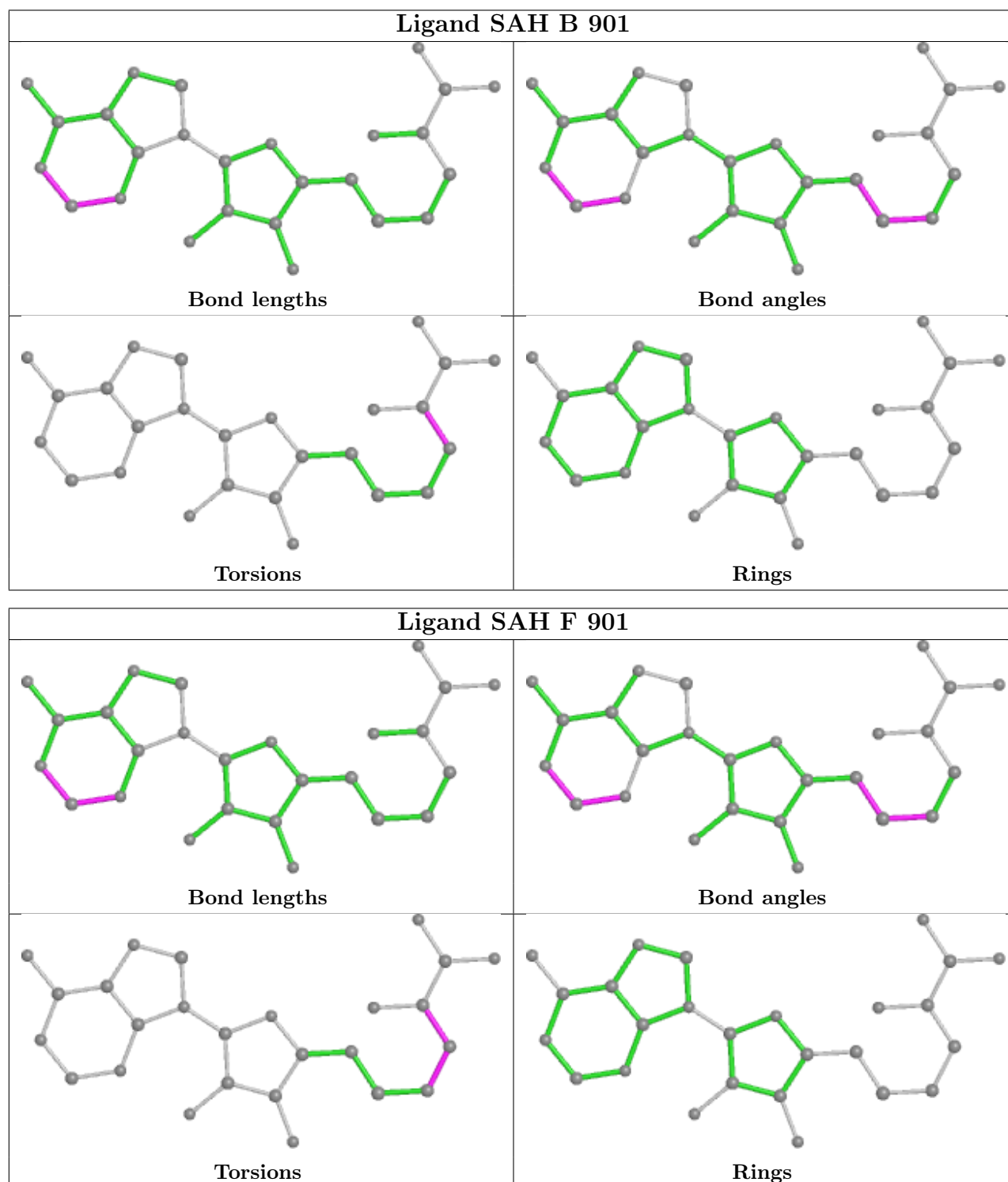
There are no ring outliers.

5 monomers are involved in 6 short contacts:

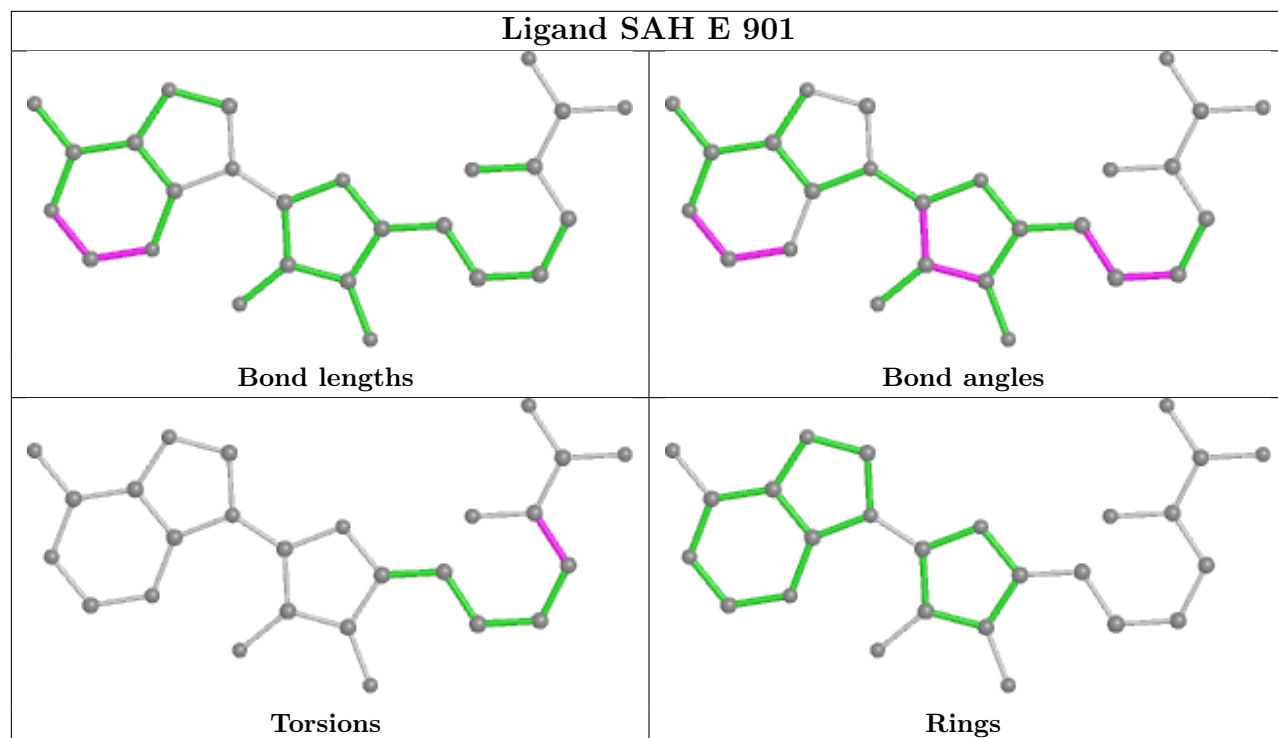
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	901	SAH	1	0
2	F	901	SAH	2	0
2	E	901	SAH	1	0
2	D	901	SAH	1	0
2	G	901	SAH	1	0

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 than 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

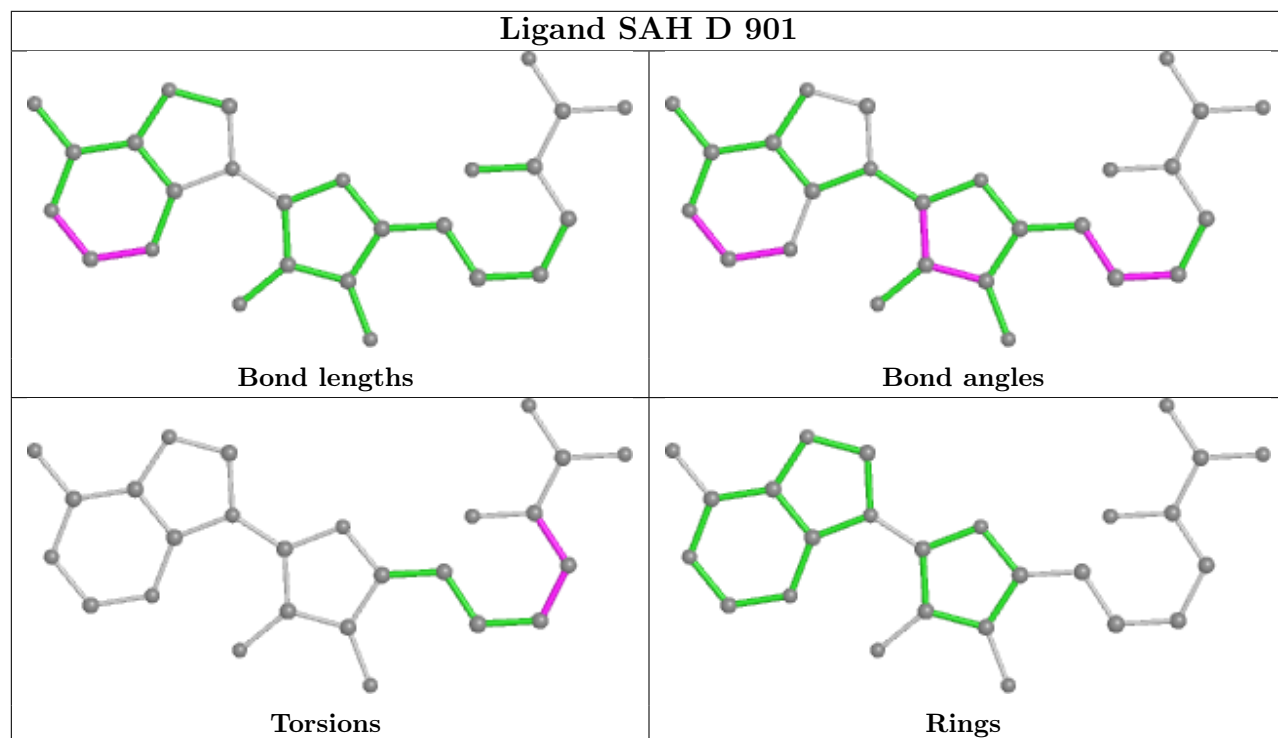
highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified 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.



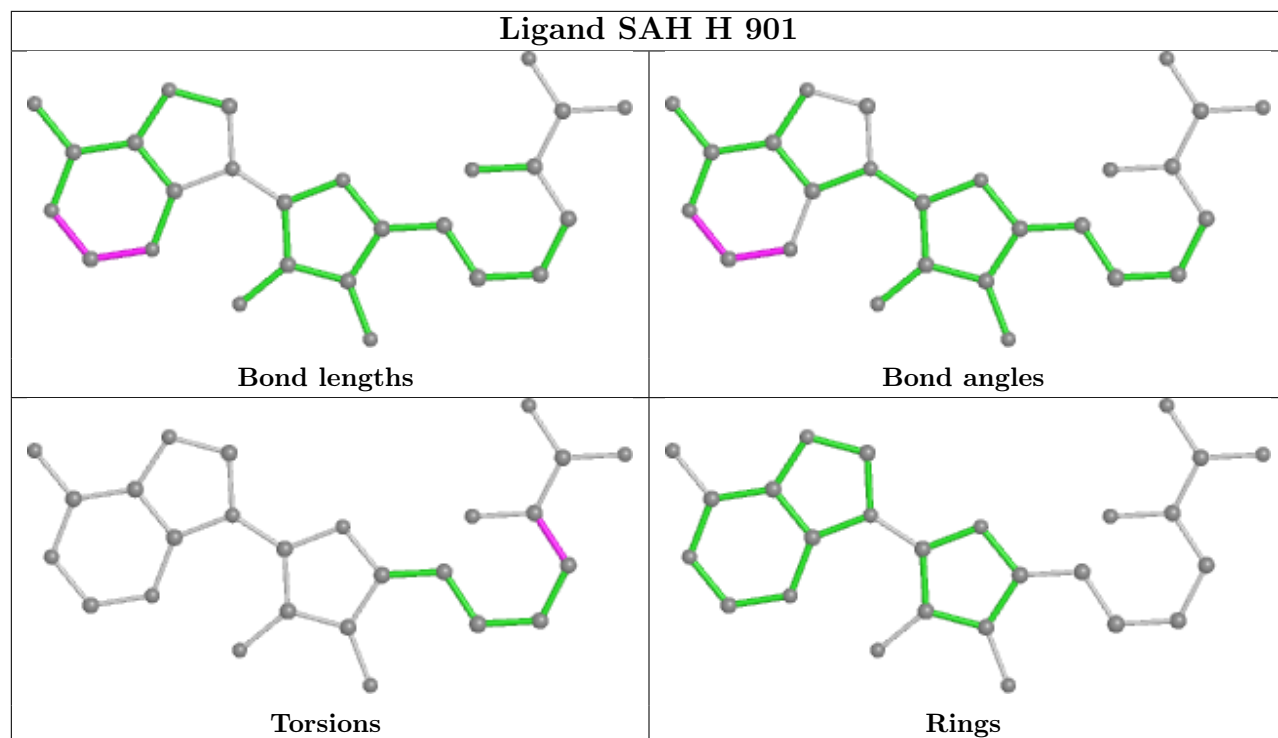
Ligand SAH E 901



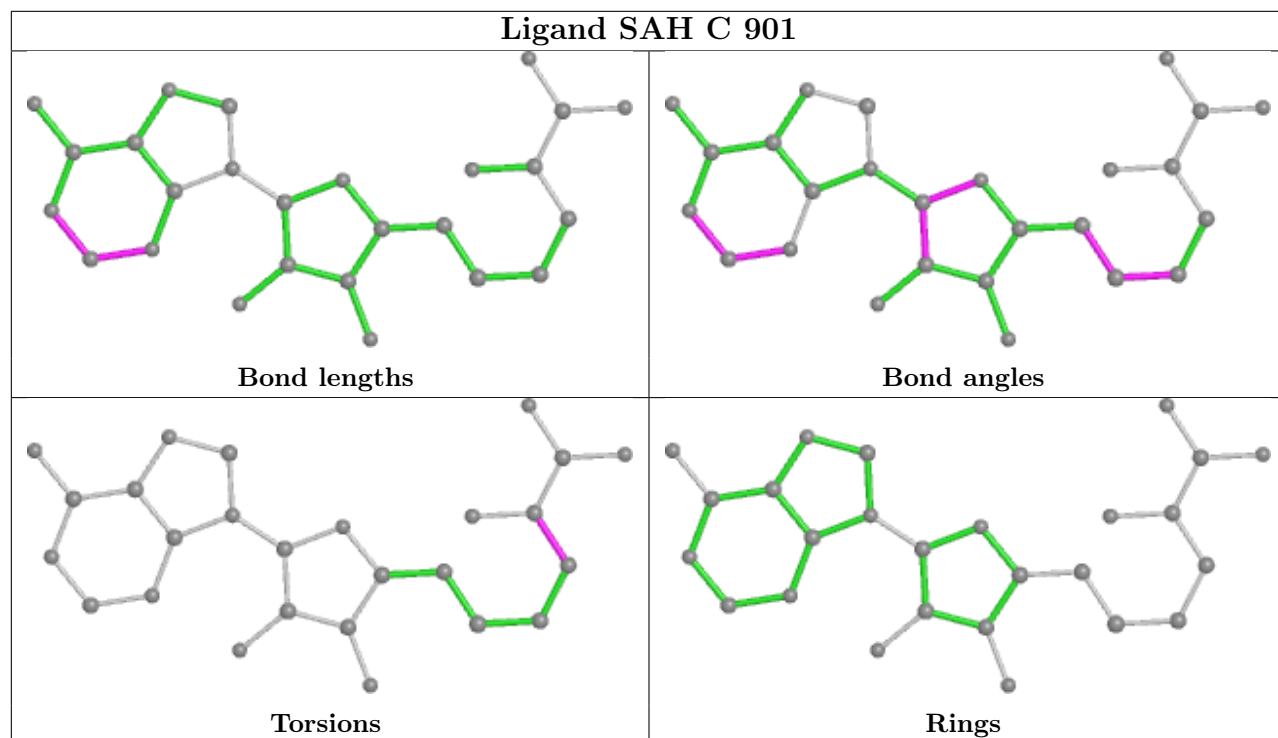
Ligand SAH D 901

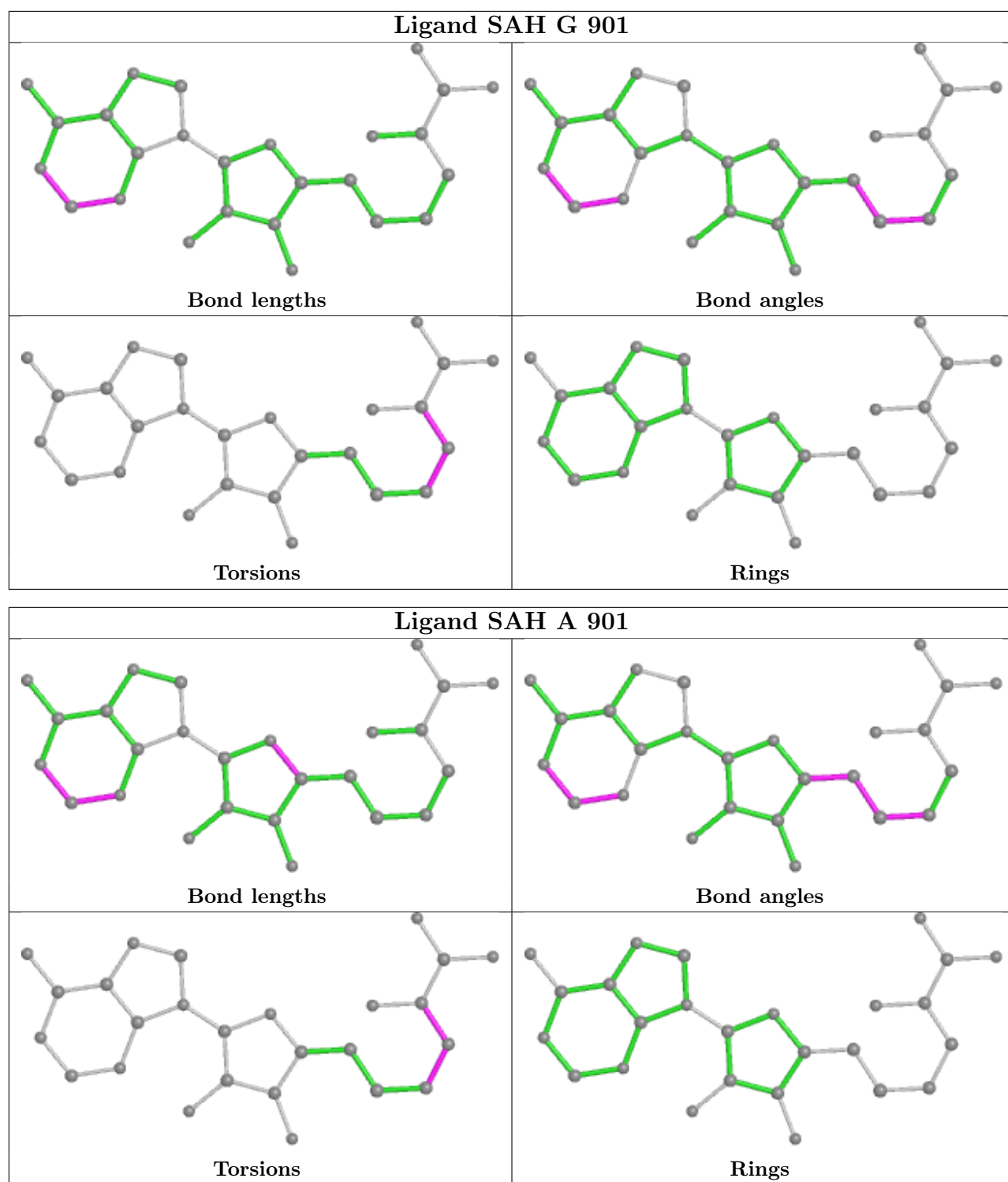


Ligand SAH H 901



Ligand SAH C 901





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 [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, 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	271/285 (95%)	0.53	4 (1%) 73 71	41, 63, 114, 128	0
1	B	275/285 (96%)	0.46	1 (0%) 92 93	41, 60, 95, 112	0
1	C	274/285 (96%)	0.46	3 (1%) 80 80	49, 67, 104, 128	0
1	D	275/285 (96%)	0.51	3 (1%) 80 80	43, 64, 104, 122	0
1	E	264/285 (92%)	0.48	4 (1%) 73 71	51, 69, 95, 111	0
1	F	263/285 (92%)	0.46	1 (0%) 92 93	51, 68, 94, 107	0
1	G	273/285 (95%)	0.48	0 100 100	43, 61, 93, 107	0
1	H	265/285 (92%)	0.47	3 (1%) 80 80	49, 65, 90, 113	0
All	All	2160/2280 (94%)	0.48	19 (0%) 84 84	41, 65, 99, 128	0

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	775	THR	4.6
1	F	774	ILE	4.1
1	H	775	THR	3.4
1	D	570	ALA	3.3
1	E	774	ILE	3.1

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](#)

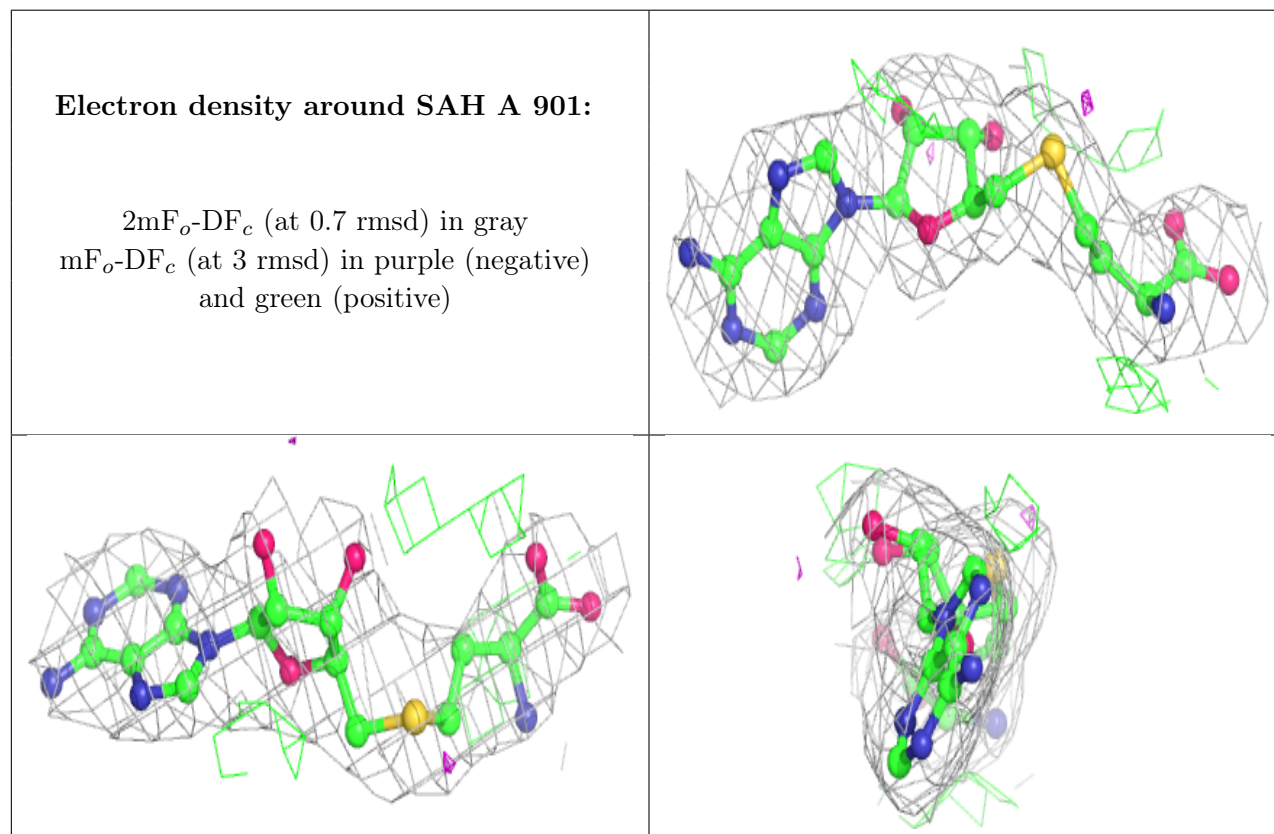
There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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.

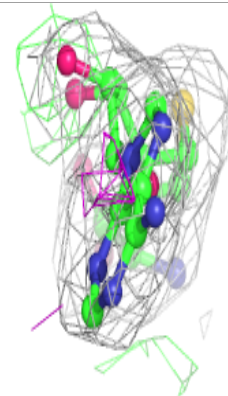
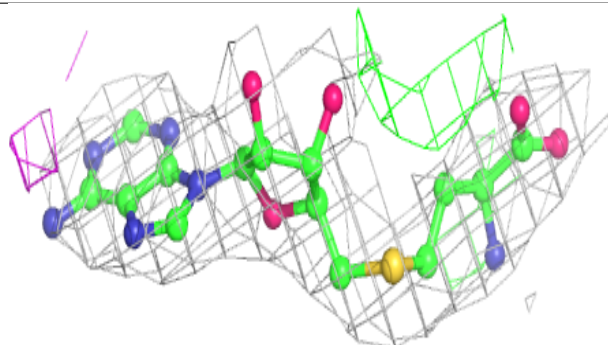
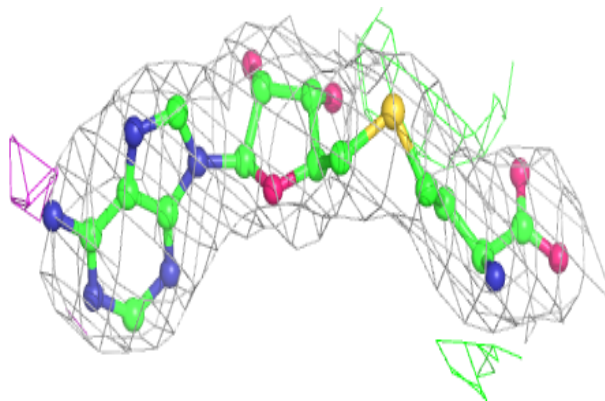
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SAH	A	901	26/26	0.97	0.33	46,57,62,80	0
2	SAH	B	901	26/26	0.98	0.33	51,58,81,88	0
2	SAH	C	901	26/26	0.98	0.28	45,55,63,65	0
2	SAH	D	901	26/26	0.98	0.33	47,54,59,65	0
2	SAH	E	901	26/26	0.98	0.32	52,62,69,73	0
2	SAH	F	901	26/26	0.98	0.34	53,61,68,69	0
2	SAH	G	901	26/26	0.98	0.34	44,56,60,62	0
2	SAH	H	901	26/26	0.98	0.30	46,55,62,64	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.

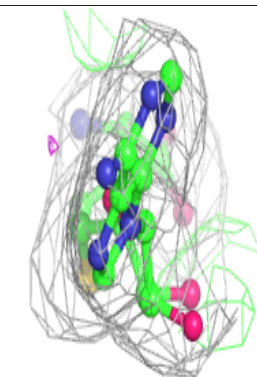
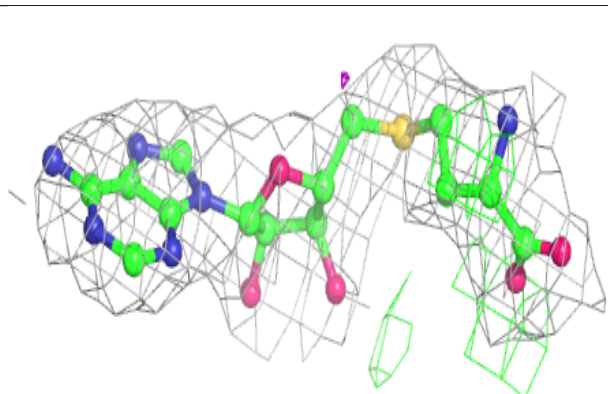
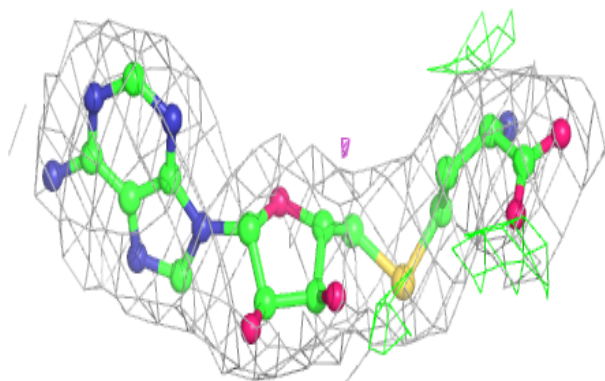


Electron density around SAH B 901:

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

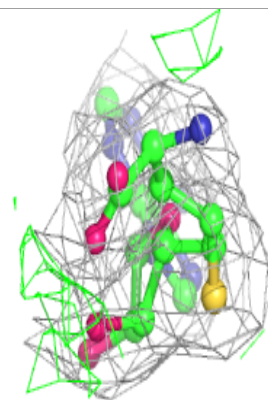
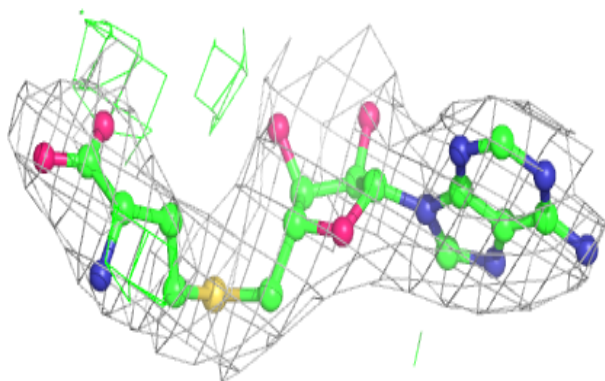
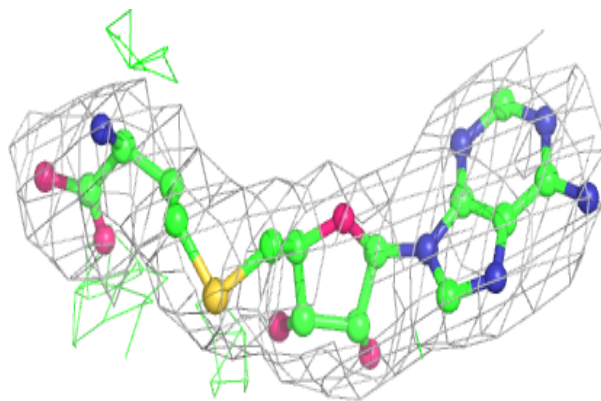
**Electron density around SAH C 901:**

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

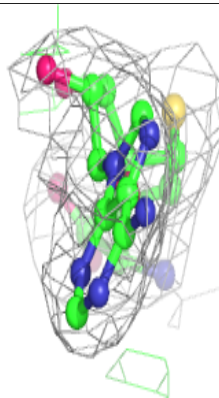
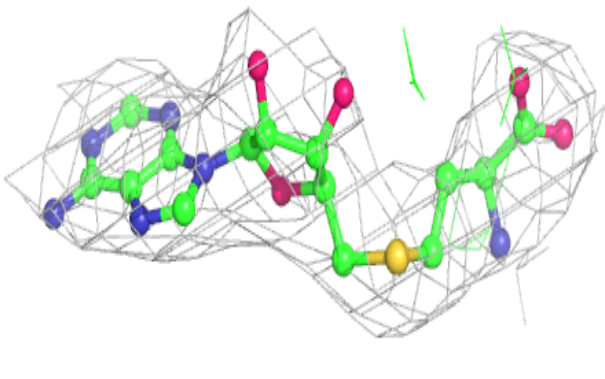
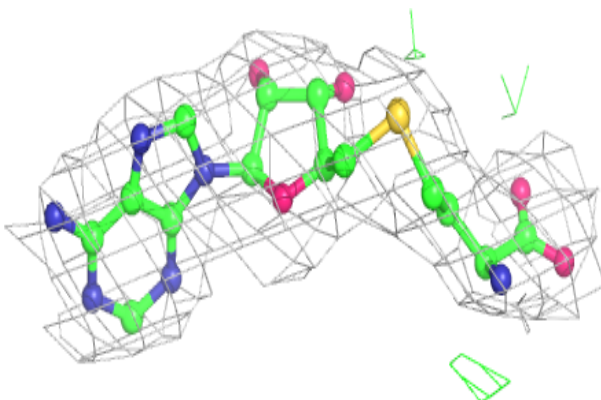


Electron density around SAH D 901:

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

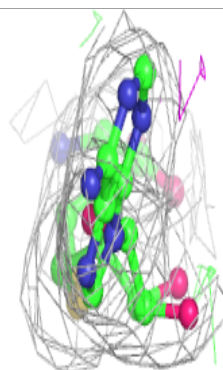
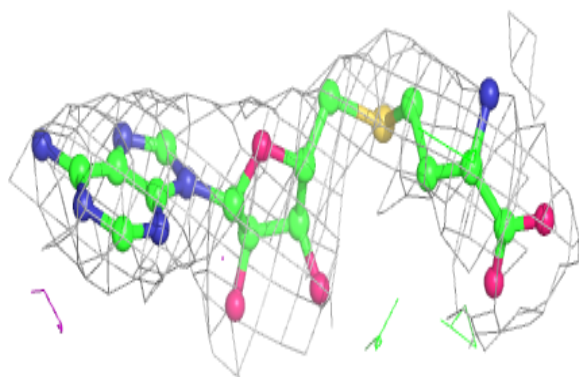
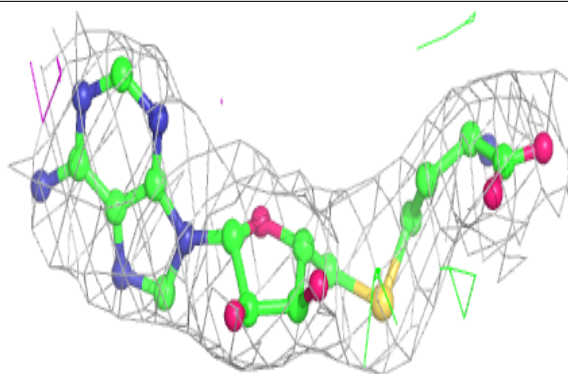
**Electron density around SAH E 901:**

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

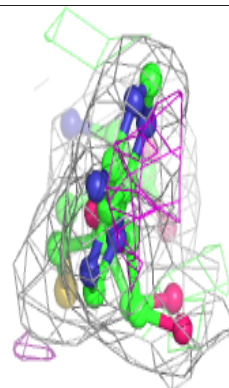
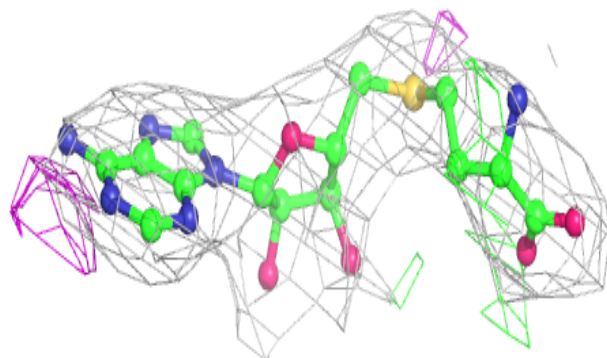
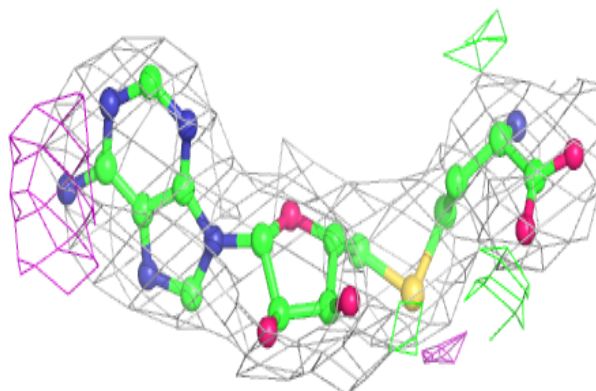


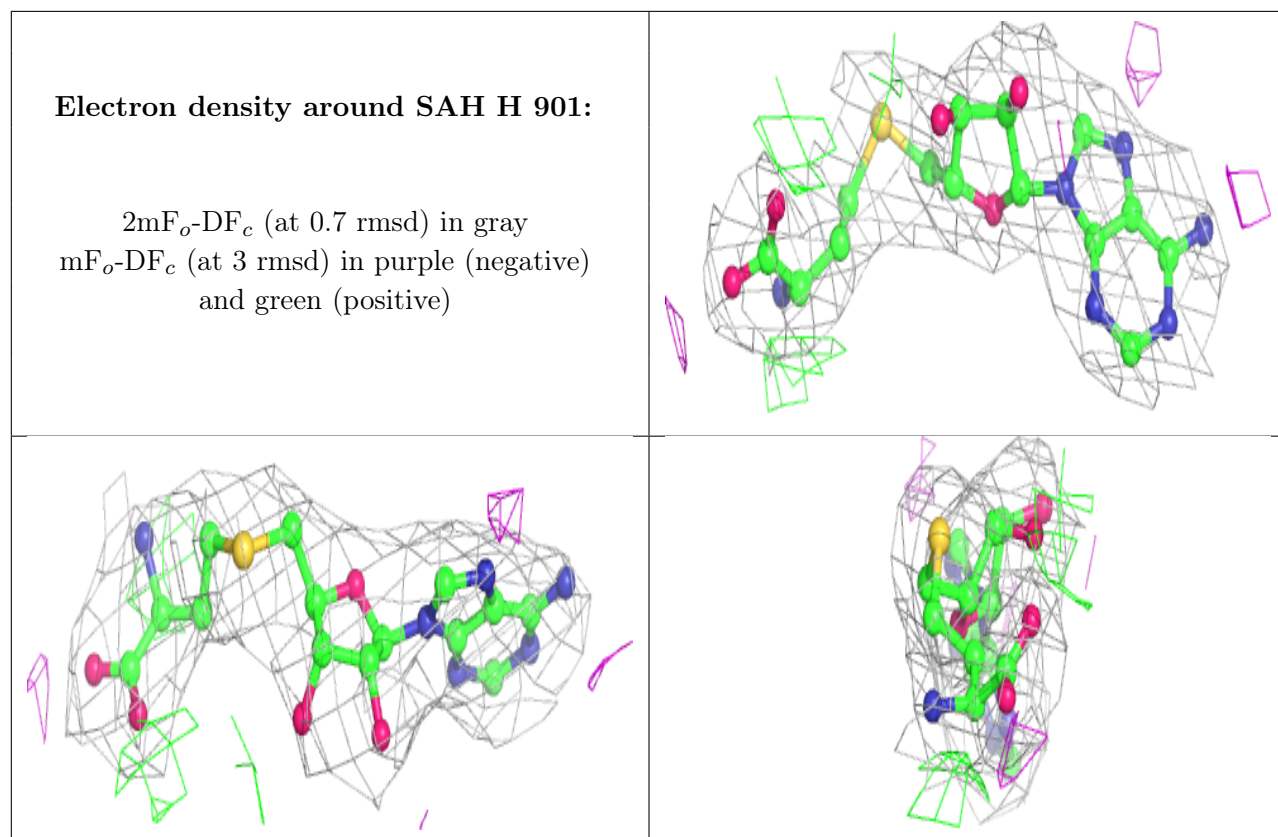
Electron density around SAH F 901:

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

**Electron density around SAH G 901:**

$2mF_o-DF_c$ (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.