Full wwPDB X-ray Structure Validation Report (i)

Aug 8, 2020 – 07:08 PM BST

PDB ID	:	6YJW
Title	:	Structure of Fragaria ananassa O-methyltransferase crystallized with PAS polypeptide
Authors	:	Schiefner, A.; Skerra, A.
Deposited on	:	2020-04-05
Resolution	:	2.10 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 (i)) were used in the production of this report:

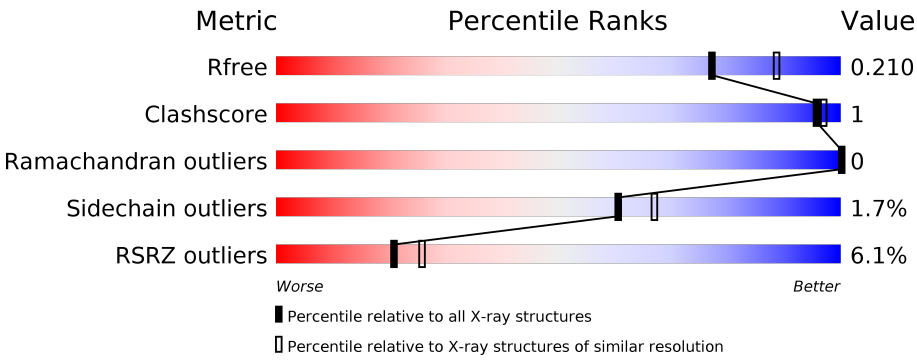
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.13.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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 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	362	7% 92% 6% •
1	B	362	5% 93% • •

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 5983 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.

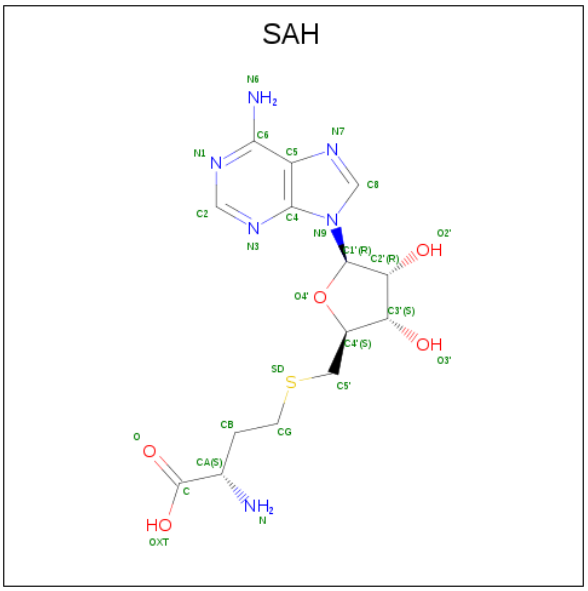
- Molecule 1 is a protein called O-methyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	353	2759	1766	454	513	26	0	7	0
1	B	353	2705	1736	443	501	25	0	1	0

There are 20 discrepancies between the modelled and reference sequences:

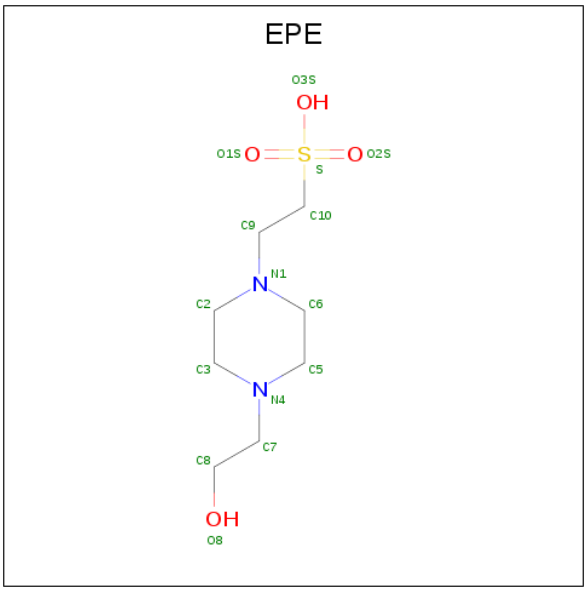
Chain	Residue	Modelled	Actual	Comment	Reference
A	4	MET	-	initiating methionine	UNP Q9M602
A	5	LYS	-	expression tag	UNP Q9M602
A	6	HIS	-	expression tag	UNP Q9M602
A	7	HIS	-	expression tag	UNP Q9M602
A	8	HIS	-	expression tag	UNP Q9M602
A	9	HIS	-	expression tag	UNP Q9M602
A	10	HIS	-	expression tag	UNP Q9M602
A	11	HIS	-	expression tag	UNP Q9M602
A	12	GLY	-	expression tag	UNP Q9M602
A	13	ALA	-	expression tag	UNP Q9M602
B	4	MET	-	initiating methionine	UNP Q9M602
B	5	LYS	-	expression tag	UNP Q9M602
B	6	HIS	-	expression tag	UNP Q9M602
B	7	HIS	-	expression tag	UNP Q9M602
B	8	HIS	-	expression tag	UNP Q9M602
B	9	HIS	-	expression tag	UNP Q9M602
B	10	HIS	-	expression tag	UNP Q9M602
B	11	HIS	-	expression tag	UNP Q9M602
B	12	GLY	-	expression tag	UNP Q9M602
B	13	ALA	-	expression tag	UNP Q9M602

- 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
			Total	C	N	O	S		
2	A	1	26	14	6	5	1	0	0
			Total	C	N	O	S		
2	B	1	26	14	6	5	1	0	0

- Molecule 3 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: $C_8H_{18}N_2O_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
3	A	1	15	8	2	4	1	0	0

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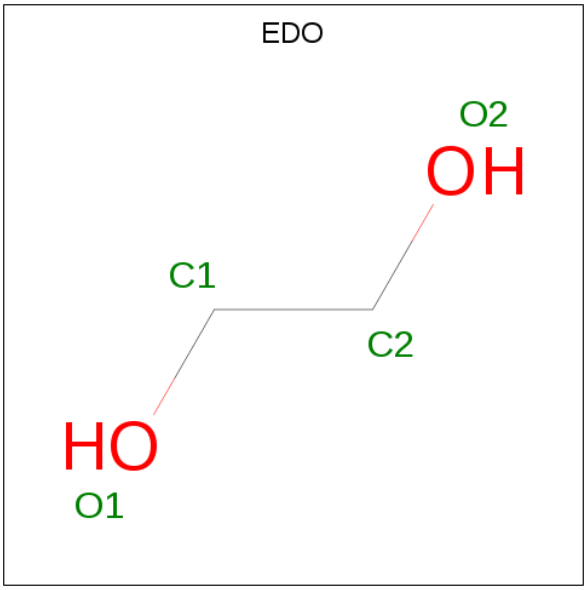
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
3	B	1	15	8	2	4	1	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 5 is water.

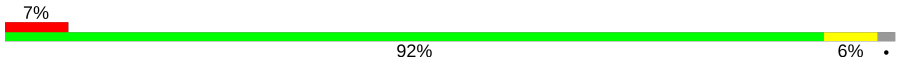
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	219	221	221	0	2
5	B	195	Total	O	0	1
			196	196		

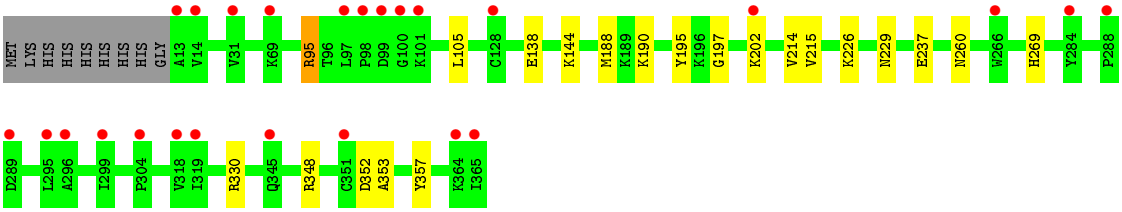
3 Residue-property plots (i)

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: O-methyltransferase

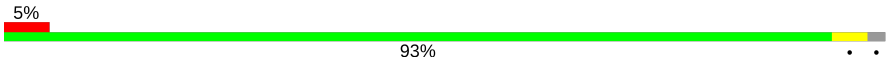
Chain A:

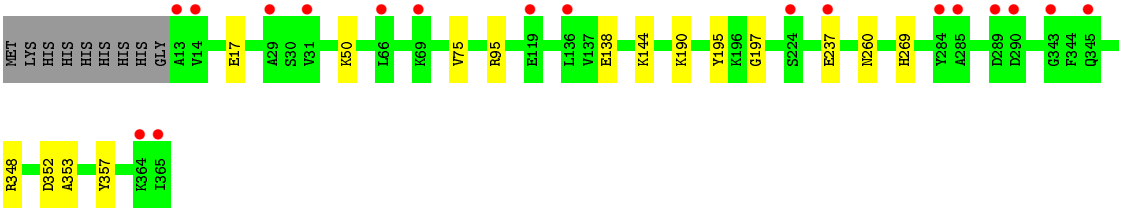




- Molecule 1: O-methyltransferase

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	70.93Å 89.33Å 150.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.78 – 2.10 34.75 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (34.78-2.10) 99.9 (34.75-2.10)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.97 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.8.0230	Depositor
R, R_{free}	0.172 , 0.200 0.181 , 0.210	Depositor DCC
R_{free} test set	2974 reflections (5.24%)	wwPDB-VP
Wilson B-factor (Å^2)	32.4	Xtriage
Anisotropy	0.196	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 49.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5983	wwPDB-VP
Average B, all atoms (Å^2)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.76% 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 (i)

5.1 Standard geometry (i)

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

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	0.71	1/2818 (0.0%)	0.72	1/3812 (0.0%)
1	B	0.72	2/2764 (0.1%)	0.70	0/3741
All	All	0.71	3/5582 (0.1%)	0.71	1/7553 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
All	All	0	2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	138	GLU	CD-OE2	-6.22	1.18	1.25
1	B	138	GLU	CD-OE2	-5.53	1.19	1.25
1	B	17	GLU	CD-OE1	5.01	1.31	1.25

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	330	ARG	NE-CZ-NH2	-5.31	117.65	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	348	ARG	Sidechain
1	B	348	ARG	Sidechain

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	2759	0	2766	8	1
1	B	2705	0	2724	4	1
2	A	26	0	19	0	0
2	B	26	0	19	0	0
3	A	15	0	18	0	0
3	B	15	0	18	0	0
4	A	8	0	12	0	0
4	B	12	0	18	0	0
5	A	221	0	0	1	0
5	B	196	0	0	1	0
All	All	5983	0	5594	12	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 1.

All (12) 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:190:LYS:HG2	1:A:353:ALA:HB1	1.92	0.52
1:A:202:LYS:HB2	1:A:260[A]:ASN:OD1	2.12	0.50
1:A:215:VAL:HG11	1:A:229:ASN:HB2	1.97	0.46
1:B:195:TYR:CZ	1:B:197:GLY:HA3	2.50	0.46
1:A:95[A]:ARG:HD2	1:A:105:LEU:HD12	1.97	0.46
1:A:195:TYR:CZ	1:A:197:GLY:HA3	2.51	0.46
1:A:352:ASP:HB3	1:A:357:TYR:CD2	2.51	0.46
1:B:75:VAL:HG23	5:B:657:HOH:O	2.14	0.45
1:B:190:LYS:HG2	1:B:353:ALA:HB1	2.00	0.43
1:B:352:ASP:HB3	1:B:357:TYR:CD2	2.54	0.43
1:A:260[A]:ASN:ND2	5:A:517:HOH:O	2.52	0.43
1:A:188[B]:MET:HG3	1:A:214:VAL:HG13	2.02	0.42

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)
1:A:95[A]:ARG:NH2	1:B:95:ARG:NH2[3_555]	2.11	0.09

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	358/362 (99%)	357 (100%)	1 (0%)	0	100	100
1	B	352/362 (97%)	350 (99%)	2 (1%)	0	100	100
All	All	710/724 (98%)	707 (100%)	3 (0%)	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	302/303 (100%)	296 (98%)	6 (2%)	55	60
1	B	296/303 (98%)	291 (98%)	5 (2%)	60	67
All	All	598/606 (99%)	587 (98%)	11 (2%)	60	65

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

Mol	Chain	Res	Type
1	A	95[A]	ARG
1	A	95[B]	ARG
1	A	144	LYS
1	A	226	LYS
1	A	237	GLU
1	A	269	HIS
1	B	50	LYS
1	B	144	LYS
1	B	237	GLU
1	B	260	ASN
1	B	269	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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)

9 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	$\#\|Z\| > 2$
4	EDO	A	403	-	3,3,3	0.58	0	2,2,2	0.11	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
4	EDO	B	405	-	3,3,3	0.90	0	2,2,2	0.51	0
4	EDO	B	404	-	3,3,3	0.54	0	2,2,2	0.20	0
4	EDO	A	404	-	3,3,3	0.90	0	2,2,2	0.19	0
4	EDO	B	403	-	3,3,3	0.53	0	2,2,2	0.35	0
3	EPE	B	402	-	15,15,15	1.94	1 (6%)	18,20,20	1.53	2 (11%)
2	SAH	B	401	-	21,28,28	1.16	3 (14%)	20,40,40	1.40	2 (10%)
2	SAH	A	401	-	21,28,28	1.24	3 (14%)	20,40,40	1.51	2 (10%)
3	EPE	A	402	-	15,15,15	1.78	1 (6%)	18,20,20	1.64	2 (11%)

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
4	EDO	A	403	-	-	0/1/1/1	-
4	EDO	B	405	-	-	0/1/1/1	-
4	EDO	B	404	-	-	0/1/1/1	-
4	EDO	A	404	-	-	0/1/1/1	-
4	EDO	B	403	-	-	0/1/1/1	-
3	EPE	B	402	-	-	2/9/19/19	0/1/1/1
2	SAH	B	401	-	-	0/7/31/31	0/3/3/3
2	SAH	A	401	-	-	0/7/31/31	0/3/3/3
3	EPE	A	402	-	-	3/9/19/19	0/1/1/1

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	402	EPE	C10-S	-6.96	1.67	1.77
3	A	402	EPE	C10-S	-5.86	1.69	1.77
2	A	401	SAH	C2-N3	3.68	1.38	1.32
2	A	401	SAH	O4'-C1'	2.53	1.44	1.41
2	B	401	SAH	C4-N3	2.49	1.39	1.35
2	B	401	SAH	C2-N1	2.41	1.38	1.33
2	B	401	SAH	C5-C4	2.12	1.46	1.40
2	A	401	SAH	C5-C4	2.07	1.46	1.40

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	402	EPE	O1S-S-C10	5.18	113.15	106.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	401	SAH	N3-C2-N1	-4.86	121.08	128.68
2	B	401	SAH	N3-C2-N1	-4.38	121.83	128.68
3	B	402	EPE	O3S-S-C10	4.26	112.65	105.77
3	A	402	EPE	C2-C3-N4	2.43	115.62	110.64
3	B	402	EPE	C7-N4-C5	2.27	117.05	111.23
2	B	401	SAH	O4'-C1'-C2'	-2.21	103.70	106.93
2	A	401	SAH	O4'-C1'-C2'	-2.10	103.86	106.93

There are no chirality outliers.

All (5) torsion outliers are listed below:

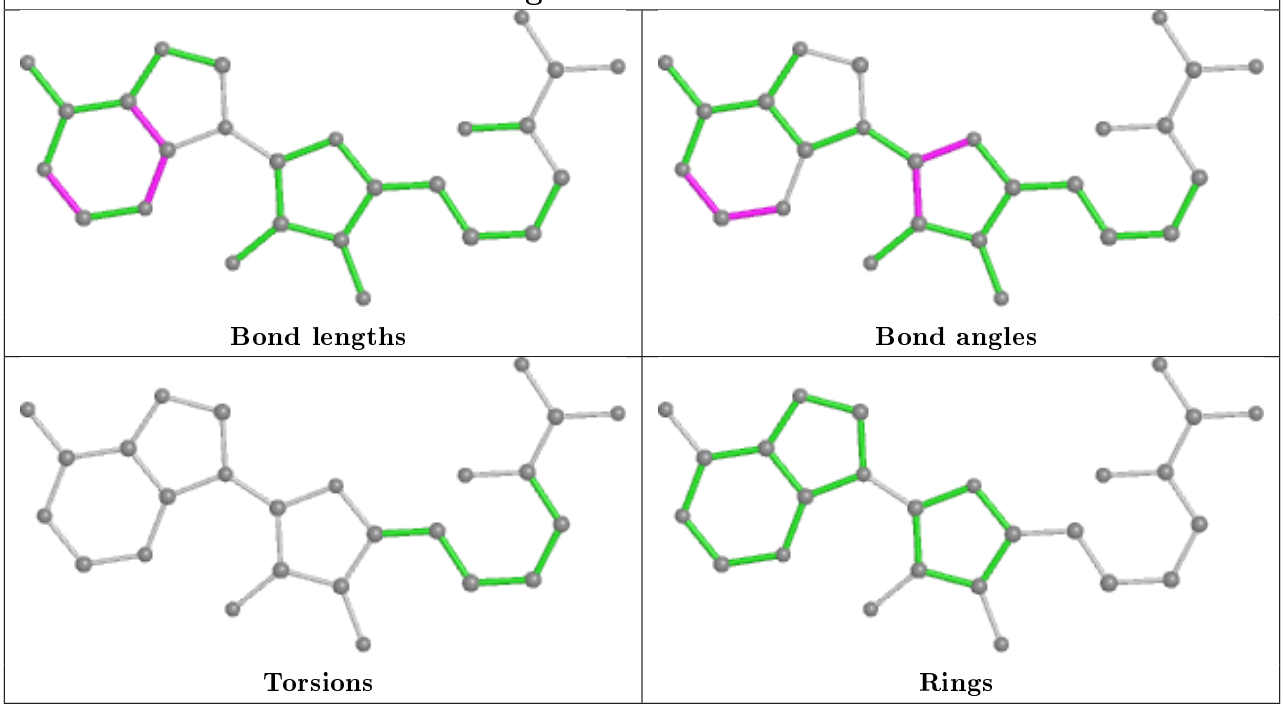
Mol	Chain	Res	Type	Atoms
3	B	402	EPE	C8-C7-N4-C5
3	A	402	EPE	C9-C10-S-O1S
3	A	402	EPE	C9-C10-S-O2S
3	A	402	EPE	C9-C10-S-O3S
3	B	402	EPE	C8-C7-N4-C3

There are no ring outliers.

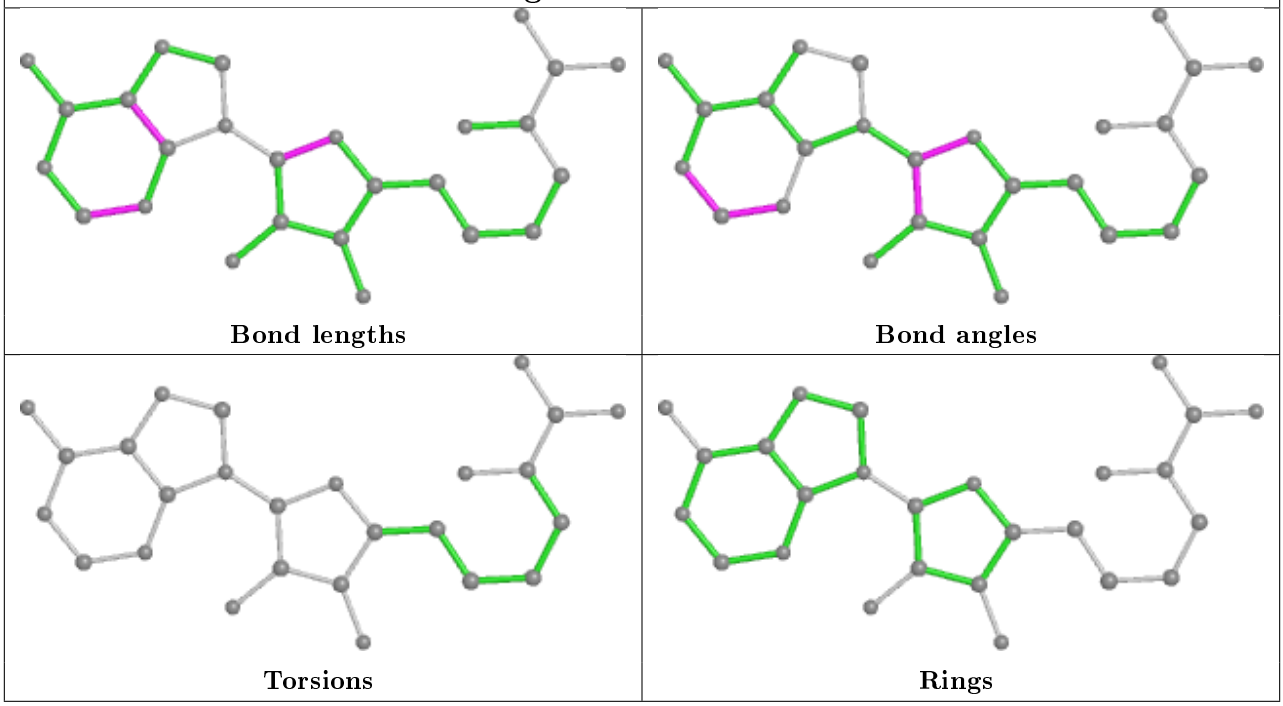
No monomer is involved in short contacts.

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 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 401



Ligand SAH A 401



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, 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	353/362 (97%)	0.32	25 (7%)	16	20	21, 31, 52, 81	0
1	B	353/362 (97%)	0.29	18 (5%)	28	33	22, 34, 54, 87	0
All	All	706/724 (97%)	0.31	43 (6%)	21	26	21, 32, 54, 87	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	365	ILE	7.2
1	A	365	ILE	6.3
1	B	13	ALA	6.2
1	A	13	ALA	5.5
1	B	364	LYS	4.8
1	A	99	ASP	4.5
1	A	345[A]	GLN	4.2
1	A	69	LYS	3.9
1	A	101	LYS	3.9
1	B	14	VAL	3.8
1	B	284	TYR	3.7
1	A	97	LEU	3.7
1	B	345	GLN	3.5
1	A	319	ILE	3.4
1	A	14	VAL	3.2
1	B	289	ASP	2.9
1	B	69	LYS	2.8
1	A	318	VAL	2.7
1	B	119	GLU	2.7
1	A	295	LEU	2.7
1	A	364	LYS	2.6
1	B	285	ALA	2.6
1	A	202	LYS	2.5
1	A	128[A]	CYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	31	VAL	2.4
1	A	289	ASP	2.4
1	B	224	SER	2.4
1	B	343	GLY	2.3
1	A	351	CYS	2.3
1	B	29	ALA	2.2
1	A	288	PRO	2.2
1	A	304	PRO	2.2
1	A	98	PRO	2.2
1	B	31	VAL	2.2
1	A	284	TYR	2.1
1	A	296	ALA	2.1
1	B	237	GLU	2.1
1	B	66	LEU	2.1
1	B	136	LEU	2.1
1	A	266	TRP	2.1
1	A	100	GLY	2.1
1	A	299	ILE	2.0
1	B	290	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 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, 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
3	EPE	B	402	15/15	0.83	0.28	86,90,96,102	0
3	EPE	A	402	15/15	0.83	0.25	70,75,77,83	0
4	EDO	B	405	4/4	0.84	0.21	37,42,42,42	0
4	EDO	A	404	4/4	0.89	0.17	35,37,39,40	0

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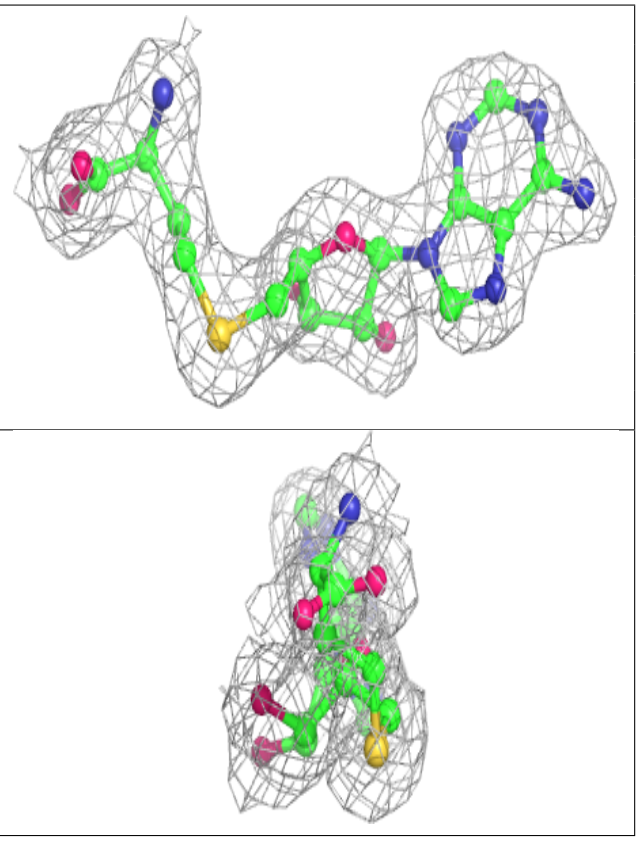
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	SAH	B	401	26/26	0.96	0.12	26,29,33,33	0
2	SAH	A	401	26/26	0.96	0.14	21,24,26,27	0
4	EDO	B	403	4/4	0.96	0.12	23,26,28,29	0
4	EDO	A	403	4/4	0.97	0.12	24,29,30,31	0
4	EDO	B	404	4/4	0.97	0.33	34,35,35,36	0

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.

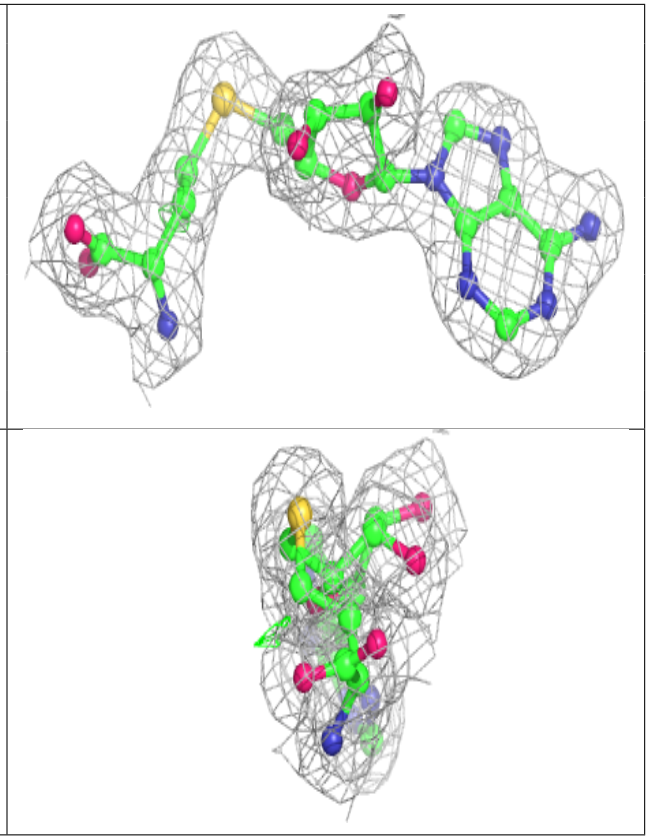
Electron density around SAH B 401:

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 401:

$2mF_o$-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.