



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 07:52 PM UTC

PDB ID : 5N0W / pdb_00005n0w
Title : Crystal structure of OphA-DeltaC6 mutant R72A in complex with SAM
Authors : Song, H.; Naismith, J.H.
Deposited on : 2017-02-03
Resolution : 1.93 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

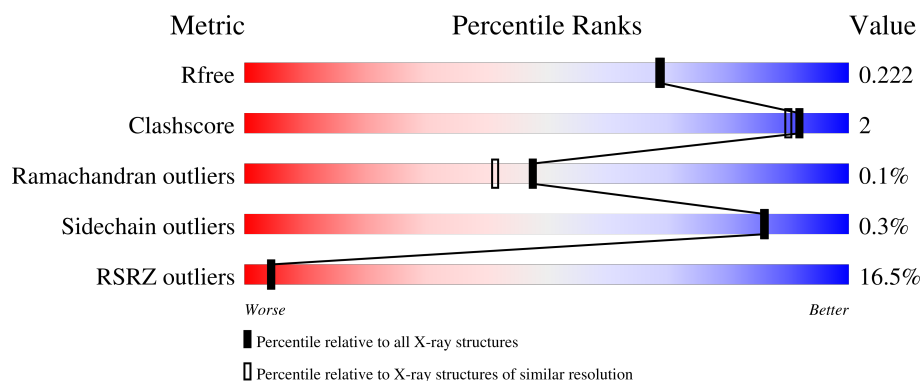
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.93 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}	180053	1452 (1.94-1.94)
Clashscore	190562	1494 (1.94-1.94)
Ramachandran outliers	187476	1479 (1.94-1.94)
Sidechain outliers	187428	1479 (1.94-1.94)
RSRZ outliers	180081	1453 (1.94-1.94)

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	410	18% 92% 5%
1	B	410	13% 92% 6%

2 Entry composition [i](#)

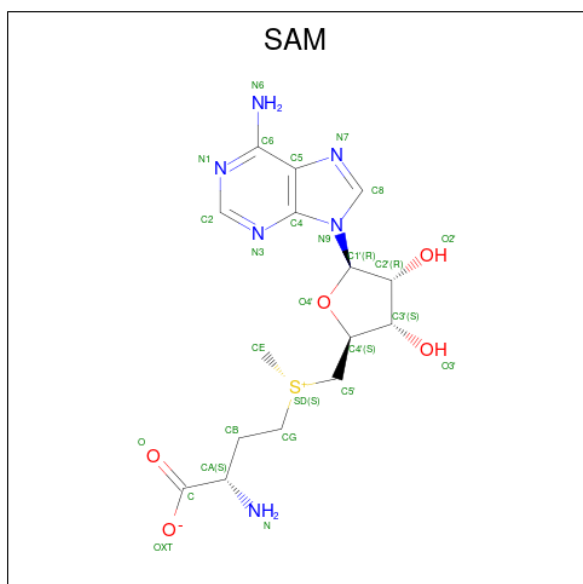
There are 4 unique types of molecules in this entry. The entry contains 6707 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Peptide N-methyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	397	Total	C	N	O	S	0	5	0
			3113	1977	532	586	18			
1	B	387	Total	C	N	O	S	0	0	0
			3000	1911	510	562	17			

- Molecule 2 is S-ADENOSYLMETHIONINE (CCD ID: SAM) (formula: $C_{15}H_{22}N_6O_5S$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			6	3	3		

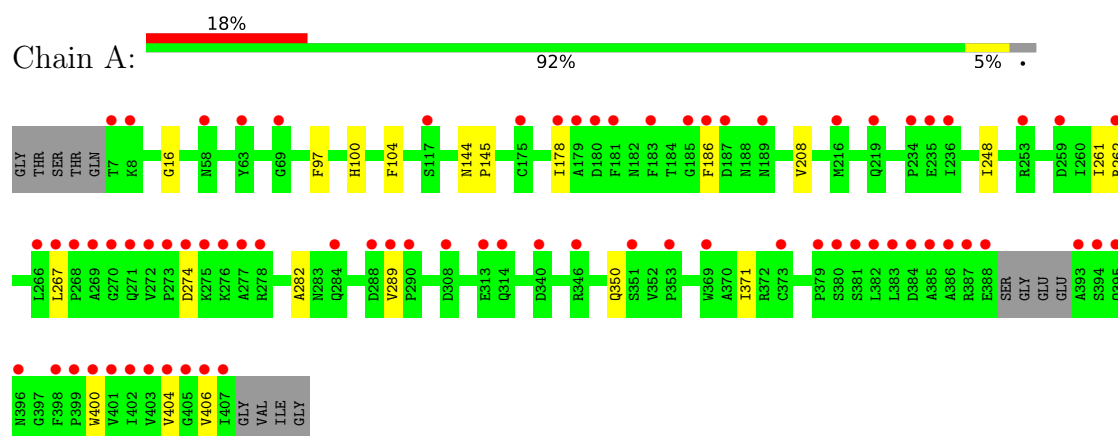
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	276	Total	O	0	0
			276	276		
4	B	258	Total	O	0	0
			258	258		

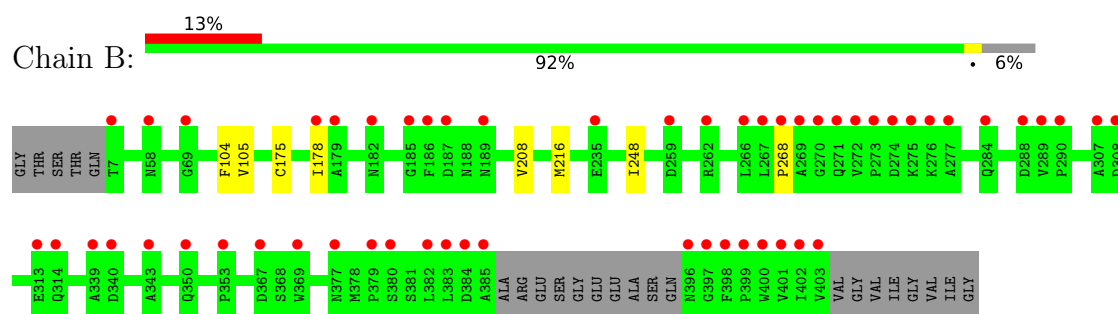
3 Residue-property plots [i](#)

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: Peptide N-methyltransferase



- Molecule 1: Peptide N-methyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	163.10Å 92.28Å 85.68Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.80 – 1.93 49.80 – 1.93	Depositor EDS
% Data completeness (in resolution range)	98.7 (49.80-1.93) 98.8 (49.80-1.93)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.76 (at 1.92Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.194 , 0.216 0.201 , 0.222	Depositor DCC
R_{free} test set	4911 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	35.4	Xtriage
Anisotropy	0.126	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 41.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6707	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 49.80 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.0836e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: SAM, GOL

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	0.61	0/3185	0.84	2/4335 (0.0%)
1	B	0.60	0/3072	0.82	0/4181
All	All	0.60	0/6257	0.83	2/8516 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	274	ASP	N-CA-C	6.63	119.24	108.76
1	A	100	HIS	N-CA-C	-5.38	101.82	109.62

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	3113	0	3073	12	0
1	B	3000	0	2967	9	0
2	A	27	0	22	1	0
2	B	27	0	22	2	0
3	B	6	0	8	1	0
4	A	276	0	0	0	2
4	B	258	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	6707	0	6092	19	2

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 2.

All (19) 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:371:ILE:HD13	1:B:216:MET:HE1	1.79	0.63
1:B:208:VAL:HG22	1:B:248:ILE:HD12	1.84	0.58
1:A:404:VAL:HG12	1:A:406:VAL:HG22	1.84	0.58
1:A:400:TRP:HA	2:B:501:SAM:HE1	1.84	0.58
1:B:105:VAL:HG13	3:B:502:GOL:H2	1.85	0.57
1:B:104:PHE:O	2:B:501:SAM:HE2	2.08	0.53
1:A:371:ILE:HG21	1:B:216:MET:HE1	1.90	0.53
1:A:261:ILE:HG21	1:A:267:LEU:HD12	1.91	0.53
1:A:178:ILE:HD13	1:A:186:PHE:HB3	1.90	0.53
1:A:208:VAL:HG22	1:A:248:ILE:HD12	1.91	0.52
1:B:208:VAL:HG13	1:B:248:ILE:CD1	2.46	0.46
1:A:208:VAL:HG13	1:A:248:ILE:CD1	2.45	0.46
1:B:208:VAL:HG22	1:B:248:ILE:CD1	2.46	0.46
1:B:175:CYS:HA	1:B:178:ILE:HD12	1.99	0.45
1:A:104:PHE:O	2:A:501:SAM:HE2	2.17	0.45
1:A:144:ASN:HA	1:A:145:PRO:HA	1.88	0.43
1:B:208:VAL:HG13	1:B:248:ILE:HD13	2.00	0.43
1:A:282:ALA:HB1	1:A:289:VAL:HG21	2.00	0.43
1:A:16:GLY:HA2	1:A:97:PHE:O	2.20	0.42

All (2) 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)
4:A:854:HOH:O	4:A:854:HOH:O[2_755]	1.93	0.27
4:A:868:HOH:O	4:A:868:HOH:O[2_755]	2.19	0.01

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	398/410 (97%)	382 (96%)	16 (4%)	0	100	100
1	B	383/410 (93%)	366 (96%)	16 (4%)	1 (0%)	36	30
All	All	781/820 (95%)	748 (96%)	32 (4%)	1 (0%)	48	41

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	268	PRO

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	333/337 (99%)	331 (99%)	2 (1%)	78	78
1	B	321/337 (95%)	321 (100%)	0	100	100
All	All	654/674 (97%)	652 (100%)	2 (0%)	86	86

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	262	ARG
1	A	350	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	219	GLN
1	A	316	GLN
1	A	395	GLN
1	B	64	GLN
1	B	165	HIS
1	B	284	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	GOL	B	502	-	5,5,5	0.92	0	5,5,5	1.10	0
2	SAM	B	501	-	27,29,29	1.28	3 (11%)	34,42,42	2.09	8 (23%)
2	SAM	A	501	-	27,29,29	1.45	4 (14%)	34,42,42	2.09	9 (26%)

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	GOL	B	502	-	-	4/4/4/4	-
2	SAM	B	501	-	-	2/17/33/33	0/3/3/3
2	SAM	A	501	-	-	3/17/33/33	0/3/3/3

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	SAM	C5-C4	4.46	1.47	1.39
2	B	501	SAM	C5-C4	3.71	1.45	1.39
2	A	501	SAM	C4-N9	-2.47	1.32	1.37
2	B	501	SAM	C8-N7	2.41	1.36	1.31
2	A	501	SAM	C5-C6	2.39	1.47	1.41
2	A	501	SAM	C8-N7	2.18	1.35	1.31
2	B	501	SAM	C4-N9	-2.09	1.33	1.37

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	SAM	CG-SD-C5'	5.35	116.51	103.43
2	B	501	SAM	C5-C4-N3	-5.06	119.76	126.72
2	A	501	SAM	CG-SD-C5'	4.99	115.64	103.43
2	A	501	SAM	C5-C4-N3	-4.79	120.12	126.72
2	B	501	SAM	N3-C2-N1	-4.41	121.90	128.58
2	A	501	SAM	N3-C4-N9	4.12	134.17	127.17
2	B	501	SAM	N3-C4-N9	3.98	133.93	127.17
2	A	501	SAM	N3-C2-N1	-3.66	123.04	128.58
2	B	501	SAM	C2-N3-C4	3.65	120.73	111.83
2	A	501	SAM	C4-N9-C8	3.36	109.27	105.74
2	A	501	SAM	C2-N3-C4	3.27	119.83	111.83
2	B	501	SAM	C2-N1-C6	2.74	123.23	118.73
2	A	501	SAM	C4-C5-N7	-2.73	107.46	110.58
2	B	501	SAM	C4-N9-C8	2.47	108.33	105.74
2	B	501	SAM	C4-C5-N7	-2.41	107.83	110.58
2	A	501	SAM	C2-N1-C6	2.12	122.22	118.73
2	A	501	SAM	O3'-C3'-C4'	2.02	116.89	111.08

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	SAM	C4'-C5'-SD-CE

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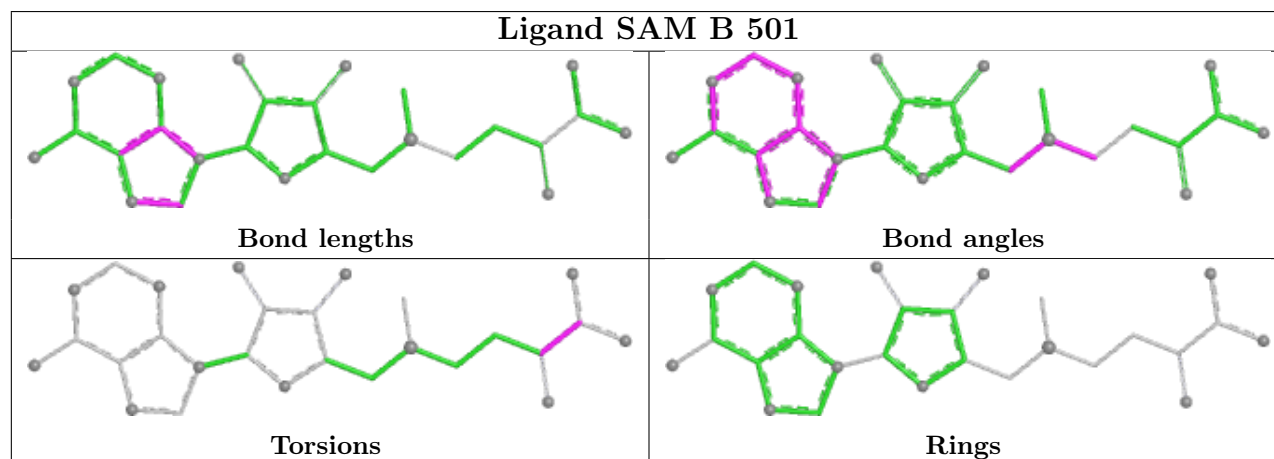
Mol	Chain	Res	Type	Atoms
3	B	502	GOL	O1-C1-C2-C3
3	B	502	GOL	C1-C2-C3-O3
3	B	502	GOL	O2-C2-C3-O3
3	B	502	GOL	O1-C1-C2-O2
2	A	501	SAM	O-C-CA-CB
2	A	501	SAM	OXT-C-CA-CB
2	B	501	SAM	OXT-C-CA-CB
2	B	501	SAM	O-C-CA-CB

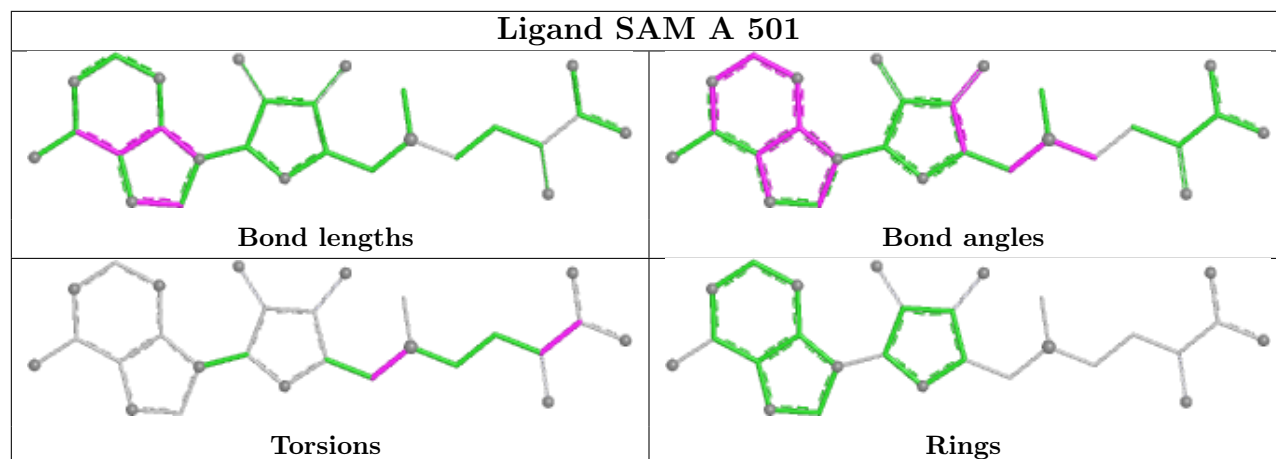
There are no ring outliers.

3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	502	GOL	1	0
2	B	501	SAM	2	0
2	A	501	SAM	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.





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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	397/410 (96%)	0.95	74 (18%) 3 3	18, 41, 84, 129	5 (1%)
1	B	387/410 (94%)	0.90	55 (14%) 6 7	25, 41, 82, 121	0
All	All	784/820 (95%)	0.93	129 (16%) 4 4	18, 41, 83, 129	5 (0%)

All (129) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	272	VAL	9.8
1	A	272	VAL	8.7
1	A	269	ALA	8.7
1	A	270	GLY	8.6
1	B	400	TRP	8.5
1	A	186	PHE	8.5
1	B	270	GLY	8.4
1	B	273	PRO	7.8
1	A	273	PRO	7.6
1	B	402	ILE	7.4
1	B	403	VAL	6.8
1	A	386	ALA	6.7
1	A	406	VAL	6.5
1	B	401	VAL	6.5
1	B	399	PRO	6.5
1	B	396	ASN	6.4
1	B	398	PHE	6.2
1	B	269	ALA	6.2
1	B	385	ALA	6.1
1	B	277	ALA	6.0
1	B	268	PRO	6.0
1	B	186	PHE	6.0
1	A	393	ALA	5.7
1	A	267	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
1	A	379	PRO	5.4
1	A	277	ALA	5.2
1	B	397	GLY	5.0
1	B	271	GLN	5.0
1	B	267	LEU	4.8
1	A	383	LEU	4.8
1	A	382	LEU	4.7
1	A	289	VAL	4.5
1	A	271	GLN	4.5
1	A	275	LYS	4.5
1	A	7	THR	4.3
1	A	185	GLY	4.3
1	B	179	ALA	4.2
1	A	274	ASP	4.1
1	A	384	ASP	4.1
1	A	179	ALA	4.0
1	A	276	LYS	4.0
1	A	380	SER	4.0
1	A	407	ILE	3.9
1	A	404	VAL	3.8
1	A	266	LEU	3.8
1	B	343	ALA	3.8
1	B	235	GLU	3.8
1	B	384	ASP	3.7
1	A	268	PRO	3.7
1	A	395	GLN	3.6
1	B	382	LEU	3.6
1	A	403	VAL	3.5
1	A	385	ALA	3.5
1	A	396	ASN	3.5
1	A	178	ILE	3.5
1	A	253	ARG	3.4
1	B	380	SER	3.3
1	B	383	LEU	3.3
1	A	405	GLY	3.3
1	A	187	ASP	3.2
1	B	379	PRO	3.2
1	B	266	LEU	3.2
1	B	275	LYS	3.1
1	A	216[A]	MET	3.1
1	B	289	VAL	3.1
1	A	259	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	183	PHE	3.1
1	A	388	GLU	3.1
1	A	69	GLY	3.1
1	B	369	TRP	2.9
1	A	381	SER	2.9
1	B	187	ASP	2.9
1	A	313	GLU	2.9
1	A	353	PRO	2.9
1	A	387	ARG	2.9
1	A	351	SER	2.9
1	A	400	TRP	2.9
1	B	290	PRO	2.8
1	A	398	PHE	2.8
1	A	314[A]	GLN	2.8
1	B	274	ASP	2.8
1	B	307	ALA	2.7
1	B	353	PRO	2.7
1	B	185	GLY	2.7
1	B	288	ASP	2.7
1	B	259	ASP	2.7
1	A	181	PHE	2.6
1	A	394	SER	2.6
1	A	175	CYS	2.6
1	A	288	ASP	2.6
1	B	340	ASP	2.6
1	B	189	ASN	2.6
1	A	219	GLN	2.5
1	A	235	GLU	2.5
1	B	69	GLY	2.4
1	B	350	GLN	2.4
1	A	290	PRO	2.4
1	A	8	LYS	2.4
1	A	189	ASN	2.4
1	B	284	GLN	2.4
1	A	346	ARG	2.3
1	B	182	ASN	2.3
1	A	340	ASP	2.3
1	B	7	THR	2.3
1	B	262	ARG	2.2
1	A	234	PRO	2.2
1	A	262	ARG	2.2
1	B	308	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	399	PRO	2.2
1	B	339	ALA	2.2
1	A	117	SER	2.2
1	A	278	ARG	2.2
1	A	402	ILE	2.1
1	A	308	ASP	2.1
1	B	276	LYS	2.1
1	B	313	GLU	2.1
1	A	63	TYR	2.1
1	B	178	ILE	2.1
1	B	58	ASN	2.1
1	B	377	ASN	2.1
1	A	373	CYS	2.1
1	B	367	ASP	2.1
1	A	236	ILE	2.0
1	B	314	GLN	2.0
1	A	401	VAL	2.0
1	A	369	TRP	2.0
1	A	180	ASP	2.0
1	A	284[A]	GLN	2.0
1	A	58	ASN	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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
3	GOL	B	502	6/6	0.80	0.19	40,43,45,45	0
2	SAM	A	501	27/27	0.93	0.10	28,30,36,40	0

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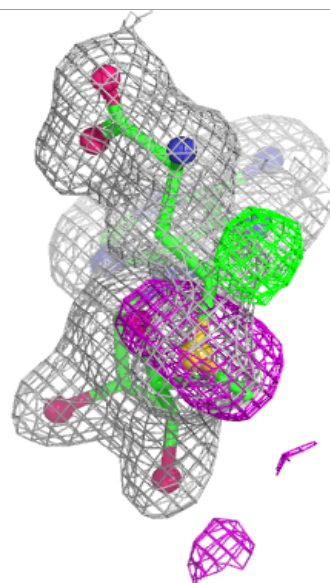
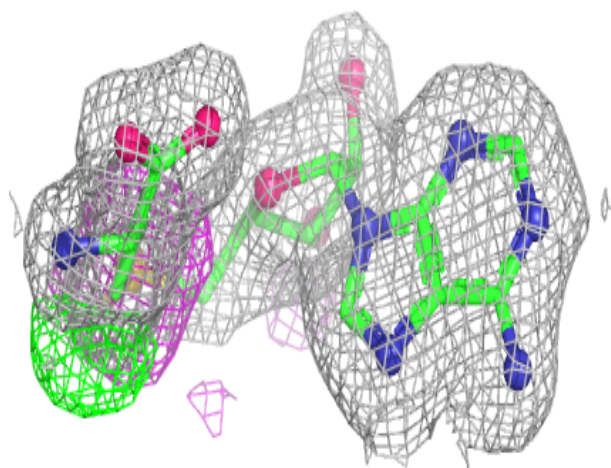
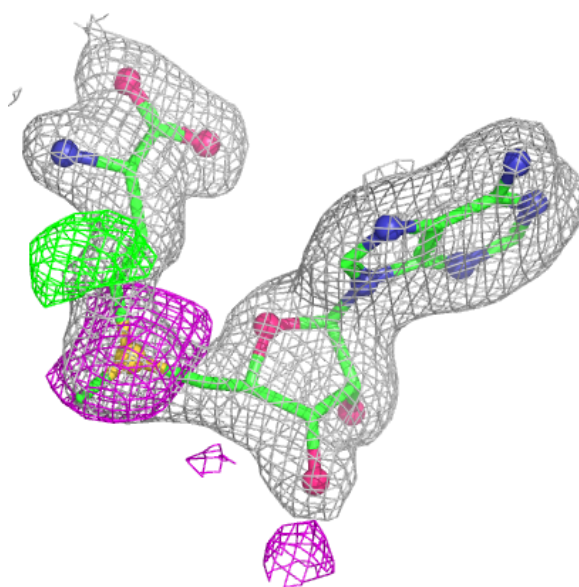
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	SAM	B	501	27/27	0.94	0.09	25,28,32,36	0

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.

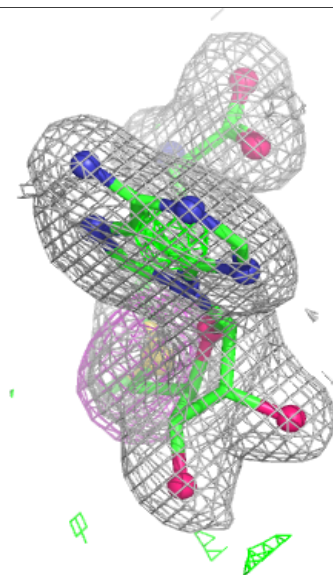
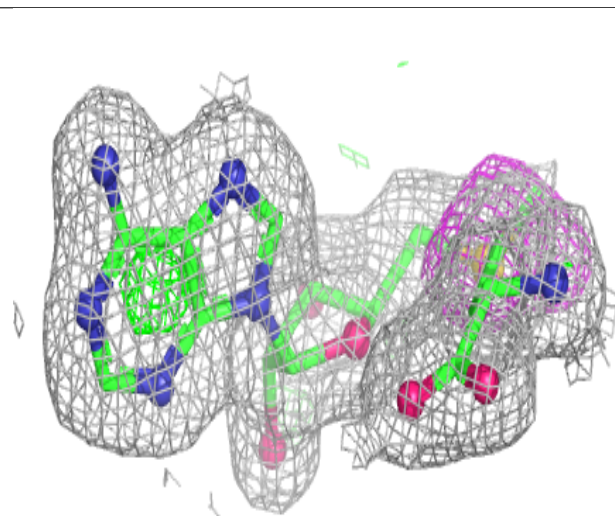
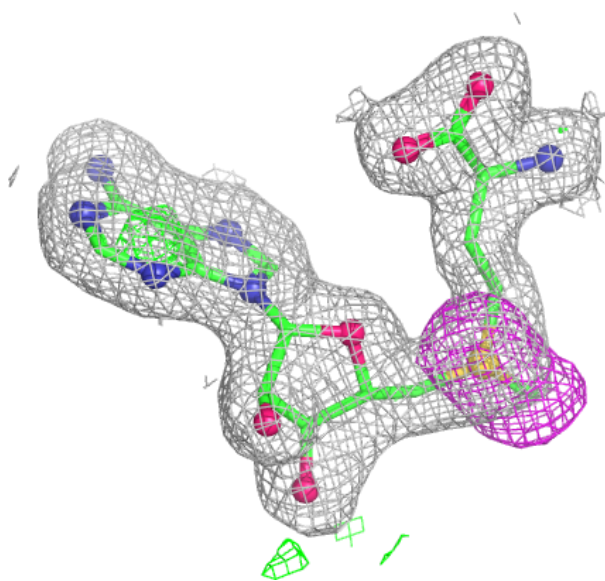
Electron density around SAM A 501:

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 SAM B 501:

$2mF_o-DF_c$ (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.