

Full wwPDB X-ray Structure Validation Report (i)

May 16, 2020 – 01:07 pm BST

PDB ID	:	1X7P
Title	:	Crystal structure of the SpoU Methyltransferase AviRb from Streptomyces
		viridochromogenes in complex with the cofactor AdoMet
Authors	:	Mosbacher, T.G.; Bechthold, A.; Schulz, G.E.
Deposited on		
$\operatorname{Resolution}$:	2.55 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:

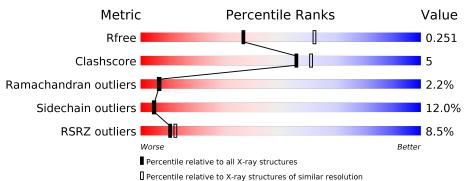
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.55 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	$egin{array}{llllllllllllllllllllllllllllllllllll$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	$1284\ (2.56-2.52)$
Clashscore	141614	1332(2.56-2.52)
Ramachandran outliers	138981	1315(2.56-2.52)
Sidechain outliers	138945	1315(2.56-2.52)
RSRZ outliers	127900	1272(2.56-2.52)

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	А	287	7%		16%	• 8%		
1	В	287	8%	21%	•	12%		



2 Entry composition (i)

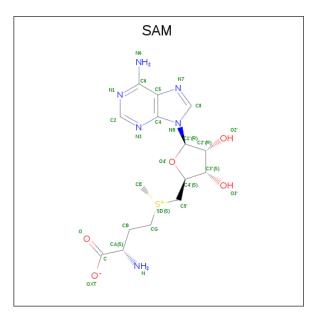
There are 3 unique types of molecules in this entry. The entry contains 4092 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 rRNA methyltransferase.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	265	Total	С	Ν	Ο	S	0	0	0
	A	205	2023	1269	364	382	8	0	0	0
1	р	253	Total	С	Ν	Ο	S	0	0	0
	D	200	1932	1217	346	361	8	0		

• Molecule 2 is S-ADENOSYLMETHIONINE (three-letter code: SAM) (formula: C₁₅H₂₂N₆O₅S).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Λ	1	Total					0	0
	А		27	15	6	5	1	0	0
0	р	1	Total	С	Ν	Ο	S	0	0
	D		27	15	6	5	1	0	U

• Molecule 3 is water.

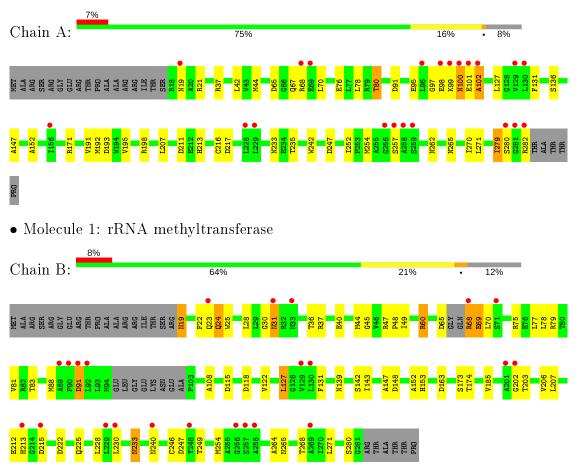


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	58	Total O 58 58	0	0
3	В	25	$\begin{array}{cc} \text{Total} & \text{O} \\ 25 & 25 \end{array}$	0	0



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: rRNA methyltransferase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	76.88Å 76.88Å 209.82Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	25.00 - 2.55	Depositor
Resolution (A)	24.89 - 2.55	EDS
% Data completeness	$100.0\ (25.00-2.55)$	Depositor
(in resolution range)	$100.0\ (24.89-2.55)$	EDS
R _{merge}	0.06	Depositor
R _{sym}	0.08	Depositor
$< I/\sigma(I) > 1$	$4.36 (at 2.53 \text{\AA})$	Xtriage
Refinement program	REFMAC $5.1.24$	Depositor
D D.	0.202 , 0.257	Depositor
R, R_{free}	0.206 , 0.251	DCC
R_{free} test set	1067 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	45.0	Xtriage
Anisotropy	0.024	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 42.9	EDS
L-test for twinning ²	$ \langle L \rangle = 0.48, \langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4092	wwPDB-VP
Average B, all atoms $(Å^2)$	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.49% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond	lengths	Bond angles		
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.60	0/2064	0.87	6/2811~(0.2%)	
1	В	0.49	0/1971	0.82	7/2684~(0.3%)	
All	All	0.55	0/4035	0.85	13/5495~(0.2%)	

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	А	0	2

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	247	ASP	CB-CG-OD2	6.49	124.14	118.30
1	В	247	ASP	CB-CG-OD2	6.23	123.91	118.30
1	А	65	ASP	CB-CG-OD2	6.00	123.70	118.30
1	В	215	ASP	CB-CG-OD2	5.78	123.50	118.30
1	В	163	ASP	CB-CG-OD2	5.73	123.46	118.30
1	А	211	ASP	CB-CG-OD2	5.63	123.37	118.30
1	В	148	ASP	CB-CG-OD2	5.50	123.25	118.30
1	А	193	ASP	CB-CG-OD2	5.38	123.14	118.30
1	А	91	ASP	CB-CG-OD2	5.25	123.03	118.30
1	А	217	ASP	CB-CG-OD2	5.21	122.99	118.30
1	В	118	ASP	CB-CG-OD2	5.20	122.98	118.30
1	В	91	ASP	CB-CG-OD2	5.16	122.94	118.30
1	В	115	ASP	CB-CG-OD2	5.13	122.92	118.30



There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	А	279	ILE	Peptide
1	А	67	GLN	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2023	0	2007	15	0
1	В	1932	0	1924	31	0
2	А	27	0	22	0	0
2	В	27	0	22	1	0
3	А	58	0	0	0	0
3	В	25	0	0	1	0
All	All	4092	0	3975	41	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

All (41) 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:265:ASN:HD22	1:B:265:ASN:HD22	1.09	0.99
1:A:265:ASN:ND2	1:B:265:ASN:HD22	1.77	0.81
1:A:265:ASN:ND2	1:B:265:ASN:ND2	2.38	0.71
1:A:265:ASN:HD22	1:B:265:ASN:ND2	1.87	0.71
1:B:185:VAL:O	1:B:185:VAL:HG23	1.94	0.67
1:B:174:THR:HG22	1:B:174:THR:O	1.94	0.65
1:A:262:ASN:HD22	1:A:265:ASN:H	1.47	0.63
1:B:47:ARG:HB3	1:B:48:PRO:HD3	1.85	0.58
1:B:127:LEU:H	1:B:153:HIS:HD2	1.51	0.58
1:B:45:GLY:O	1:B:49:ILE:HG12	2.06	0.56
1:B:49:ILE:HD12	1:B:108:ALA:HB3	1.87	0.55
1:B:36:THR:HG23	3:B:325:HOH:O	2.07	0.53
1:A:101:GLU:O	1:A:102:ALA:HB3	2.09	0.53



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:MET:HE3	1:A:242:TRP:HZ3	1.75	0.52
1:A:76:GLU:O	1:A:80:THR:HB	2.11	0.50
1:A:44:MET:HE1	1:A:171:ARG:NH1	$\frac{2.11}{2.26}$	0.30
1:A:44:ME1:HE1 1:B:127:LEU:H	1:B:153:HIS:CD2	2.20	0.49
1:A:265:ASN:HB3	1:B:268:THR:HG21		
		1.95	0.49
1:B:65:ASP:OD2	1:B:68:ARG:N	2.48	0.46
1:B:233:ASN:O	2:B:302:SAM:H5'2	2.14	0.46
1:B:30:GLY:O	1:B:31:ASN:O	2.34	0.46
1:B:143:ILE:CD1	1:B:264:ALA:HA	2.45	0.46
1:B:174:THR:O	1:B:174:THR:CG2	2.62	0.45
1:A:147:ALA:HB1	1:A:152:ALA:HB3	1.98	0.45
1:B:49:ILE:HD12	1:B:108:ALA:CB	2.47	0.44
1:B:207:LEU:HD22	1:B:228:LEU:HD23	1.98	0.44
1:A:44:MET:CE	1:A:171:ARG:HH11	2.30	0.44
1:B:222:ASP:O	1:B:225:GLN:HG2	2.18	0.44
1:A:252:ILE:HD11	1:A:270:ILE:CG1	2.48	0.43
1:B:22:PHE:HA	1:B:25:TRP:CE3	2.53	0.43
1:B:147:ALA:HB1	1:B:152:ALA:HB3	2.00	0.43
1:B:230:LEU:HD12	1:B:246:CYS:SG	2.59	0.43
1:B:40:GLU:OE1	1:B:60:ARG:NH1	2.53	0.42
1:B:122:VAL:HG12	1:B:203:THR:HG21	2.03	0.41
1:B:185:VAL:O	1:B:185:VAL:CG2	2.65	0.41
1:B:139:ASN:O	1:B:143:ILE:HG12	2.20	0.41
1:B:81:VAL:HG12	1:B:83:THR:HG22	2.02	0.41
1:A:101:GLU:O	1:A:102:ALA:CB	2.69	0.41
1:B:19:ASN:HB2	1:B:22:PHE:HB3	2.02	0.40
1:A:191:VAL:O	1:A:195:VAL:HG23	2.22	0.40
1:B:24:GLN:O	1:B:28:LEU:HG	2.22	0.40

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There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles		
1	А	263/287~(92%)	247 (94%)	9~(3%)	7(3%)	5 4		
1	В	247/287~(86%)	237~(96%)	6 (2%)	4 (2%)	9 12		
All	All	510/574~(89%)	484 (95%)	15 (3%)	11 (2%)	6 7		

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	70	LEU
1	А	99	LYS
1	В	31	ASN
1	В	202	GLY
1	А	100	ASN
1	А	280	SER
1	В	69	GLU
1	А	102	ALA
1	В	70	LEU
1	А	97	GLY
1	А	279	ILE

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	А	213/231~(92%)	190~(89%)	23 (11%)	6 6
1	В	205/231~(89%)	178 (87%)	27 (13%)	4 3
All	All	418/462~(90%)	368~(88%)	50 (12%)	5 5

All (50) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	19	ASN
1	А	21	ARG
1	А	37	ARG
1	А	42	LEU
1	А	68	ARG



Mol	Chain	Res	Type
1	А	78	LEU
1	A	80	THR
1	А	95	GLU
1	А	98	GLU
1	А	100	ASN
1	А	127	LEU
1	А	131	PHE
1	А	136	SER
1	А	198	ARG
1	А	207	LEU
1	А	213	HIS
1	А	216	CYS
1	А	233	ASN
1	А	235	THR
1	A	254	MET
1	A A	257	SER
1	А	271	LEU
1	А	282	ARG
1	В	19	ASN
1	В	23	GLN
1	В	24	GLN
1	В	37	ARG
1	В	44	MET
1	В	60	ARG
1	В	68	ARG
1	В	69	GLU
1	В	75	ARG
1	В	77	LEU
1	В	78	LEU
1	В	79	ARG
1	В	88	MET
1	В	91	ASP
1	В	127	LEU
1	В	131	PHE
1	В	142	SER
1	В	173	SER
1	В	206	VAL
1	В	212	GLU
1	В	213	HIS
1	В	233	ASN
1	В	240	ASN
1	В	249	THR

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Mol	Chain	Res	Type
1	В	254	MET
1	В	271	LEU
1	В	280	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	26	GLN
1	А	31	ASN
1	А	33	ASN
1	А	67	GLN
1	А	262	ASN
1	А	265	ASN
1	В	33	ASN
1	В	153	HIS
1	В	262	ASN

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 carbohydrates in this entry.

5.6 Ligand geometry (i)

2 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	Chain	Chain	Res	Link	Bo	ond leng	\mathbf{ths}	В	ond ang	les
INIOI	Type	Cham	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
2	SAM	В	302	-	21,29,29	1.15	1 (4%)	$18,\!42,\!42$	1.74	1(5%)		
2	SAM	А	301	-	21,29,29	1.33	3 (14%)	18,42,42	1.28	1(5%)		

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	SAM	В	302	-	-	4/8/33/33	0/3/3/3
2	SAM	А	301	-	-	3/8/33/33	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	А	301	SAM	C2-N3	3.65	1.38	1.32
2	В	302	SAM	C2-N3	3.31	1.37	1.32
2	А	301	SAM	C2-N1	2.87	1.39	1.33
2	А	301	SAM	C2'-C1'	-2.17	1.50	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	302	SAM	N3-C2-N1	-5.95	119.38	128.68
2	А	301	SAM	N3-C2-N1	-4.48	121.68	128.68

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	302	SAM	N-CA-CB-CG
2	В	302	SAM	CA-CB-CG-SD
2	А	301	SAM	CA-CB-CG-SD
2	А	301	SAM	CB-CG-SD-C5'
2	А	301	SAM	CB-CG-SD-CE
2	В	302	SAM	C-CA-CB-CG
2	В	302	SAM	O4'-C4'-C5'-SD

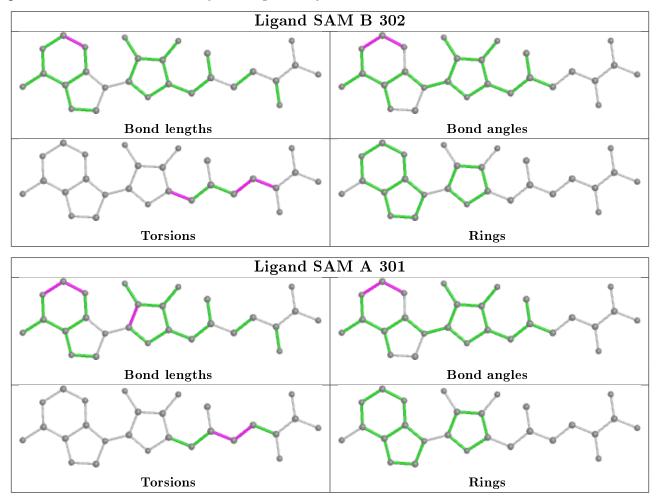
There are no ring outliers.

1 monomer is involved in 1 short contact:



\mathbb{N}	ſol	Chain	Res	Type	Clashes	Symm-Clashes
	2	В	302	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 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.



5.7 Other polymers (i)

There are no such residues in this entry.



5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

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

Mol	Chain	Analysed	<RSRZ $>$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	265/287~(92%)	0.28	21 (7%) 12 16	19, 25, 34, 51	0
1	В	253/287~(88%)	0.35	23 (9%) 9 11	18, 25, 32, 37	0
All	All	518/574~(90%)	0.31	44 (8%) 10 12	18, 25, 33, 51	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	282	ARG	7.0
1	В	257	SER	6.9
1	А	281	GLY	5.9
1	В	258	ALA	5.4
1	А	258	ALA	4.8
1	А	100	ASN	4.7
1	А	99	LYS	4.4
1	В	90	PRO	4.4
1	А	96	LEU	4.3
1	А	280	SER	4.2
1	В	91	ASP	4.0
1	А	68	ARG	3.8
1	В	215	ASP	3.7
1	В	92	LEU	3.5
1	А	257	SER	3.4
1	А	102	ALA	3.4
1	В	213	HIS	3.2
1	В	31	ASN	3.1
1	В	89	ALA	3.1
1	А	256	GLY	3.0
1	А	229	LEU	3.0
1	А	130	LEU	2.9
1	А	19	ASN	2.8
1	В	71	SER	2.8



Mol	Chain	Res	Type	RSRZ
1	В	229	LEU	2.7
1	А	129	VAL	2.7
1	А	228	LEU	2.7
1	В	202	GLY	2.6
1	А	98	GLU	2.5
1	В	129	VAL	2.4
1	А	259	SER	2.4
1	В	23	GLN	2.3
1	В	230	LEU	2.3
1	В	240	ASN	2.3
1	А	101	GLU	2.2
1	В	256	GLY	2.2
1	А	69	GLU	2.2
1	В	269	ALA	2.2
1	В	248	TYR	2.2
1	В	201	ALA	2.1
1	В	130	LEU	2.1
1	В	33	ASN	2.1
1	В	68	ARG	2.1
1	А	156	ILE	2.0

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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.

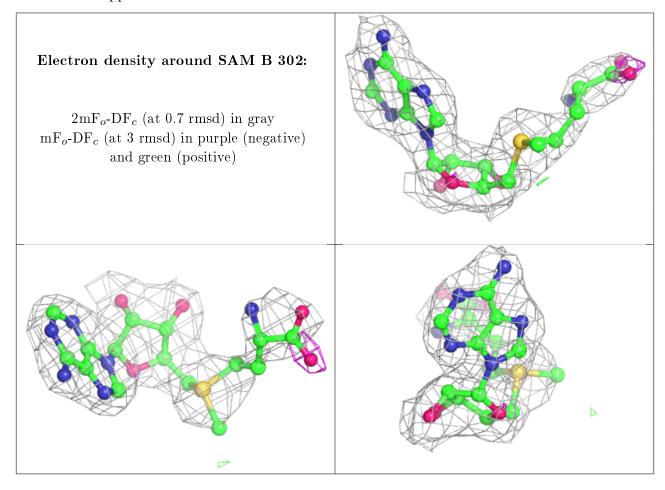
6.4 Ligands (i)

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.

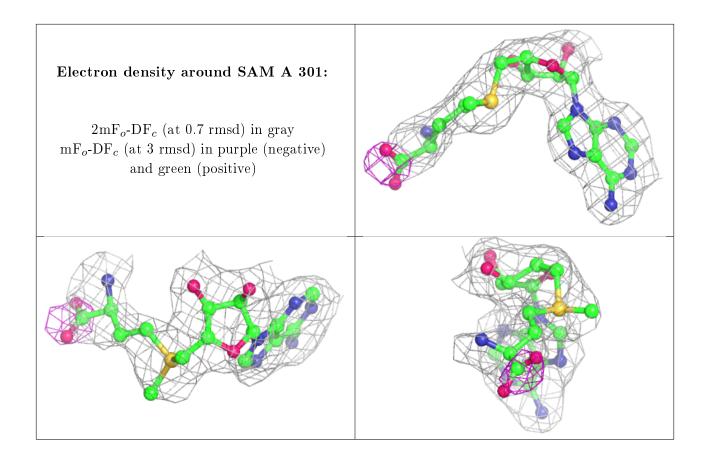
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
2	SAM	В	302	27/27	0.93	0.17	$34,\!45,\!67,\!67$	0
2	SAM	А	301	27/27	0.93	0.17	$28,\!34,\!59,\!60$	0



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.







6.5 Other polymers (i)

There are no such residues in this entry.

