

# wwPDB X-ray Structure Validation Summary Report (i)

### Mar 11, 2024 – 06:08 pm GMT

PDB ID : 8S8W

Title: SARS-CoV-2 nsp10-16 methyltransferase in complex with Sangivamycin and

m7GpppA-RNA (Cap0-RNA)

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Deposited on : 2024-03-07

Resolution : 2.10 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 (i) 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

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)

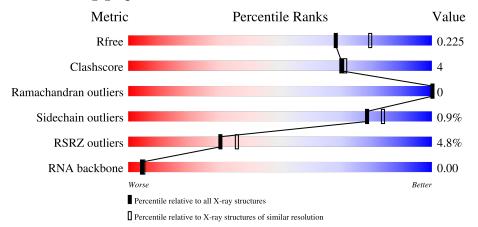
Validation Pipeline (wwPDB-VP) : 2.36

# 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
$R_{free}$	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)
RNA backbone	3102	1000 (2.54-1.66)

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 <=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	304	90%		8% •
2	В	140	78%	·	19%
3	С	3	67%	33%	



# 2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 6899 atoms, of which 3308 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 2'-O-methyltransferase nsp16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	A	299	Total 4792	C 1531	H 2394	N 404	O 446	S 17	0	6	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	7097	GLU	-	expression tag	UNP P0DTD1
A	7098	ASN	-	expression tag	UNP P0DTD1
A	7099	LEU	-	expression tag	UNP P0DTD1
A	7100	TYR	-	expression tag	UNP P0DTD1
A	7101	PHE	-	expression tag	UNP P0DTD1
A	7102	GLN	-	expression tag	UNP P0DTD1

• Molecule 2 is a protein called Non-structural protein 10.

$\mathbf{Mol}$	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
2	В	114	Total 1637	C 522	H 798	N 141	O 161	S 15	0	1	0

There is a discrepancy between the modelled and reference sequences:

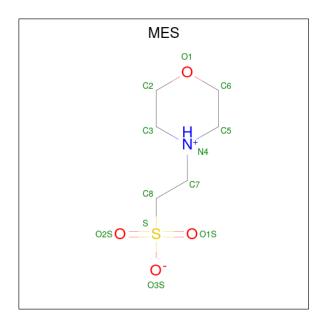
Chain	Residue	Modelled	Actual	Comment	Reference
В	4253	GLY	-	expression tag	UNP P0DTD1

• Molecule 3 is a RNA chain called m7GpppA-RNA (Cap0-RNA).

Mol	Chain	Residues		A	ton	ıs			ZeroOcc	AltConf	Trace
2	С	2	Total	С	Н	N	О	Р	0	0	0
3		3	67	19	22	4	19	3	0	0	U

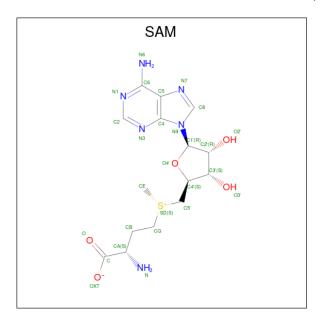
• Molecule 4 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S).





Mol	Chain	Residues		A	ton	ıs			ZeroOcc	AltConf
4	A	1	Total 25	C 6	H 13	N 1	O 4	S 1	0	0

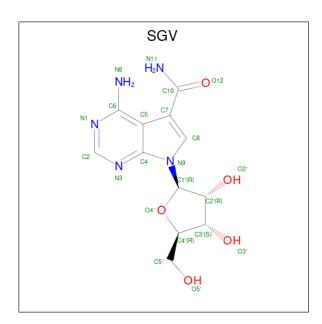
• Molecule 5 is S-ADENOSYLMETHIONINE (three-letter code: SAM) (formula:  $C_{15}H_{22}N_6O_5S$ ).



Mol	Chain	Residues		A	tom	ıs			ZeroOcc	AltConf
5	Λ	1	Total	С	Н	N	О	S	0	1
)	A	1	49	15	22	6	5	1	0	1

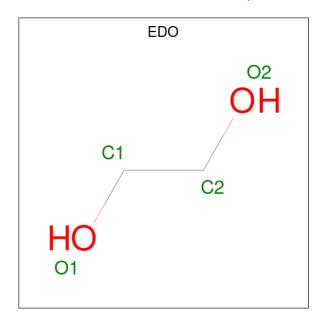
• Molecule 6 is SANGIVAMYCIN (three-letter code: SGV) (formula:  $C_{12}H_{15}N_5O_5$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf
6	Λ	1	Total	С	Н	N	О	0	1
0	A	1	37	12	15	5	5	U	1

 $\bullet$  Molecule 7 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $\mathrm{C_2H_6O_2}).$ 



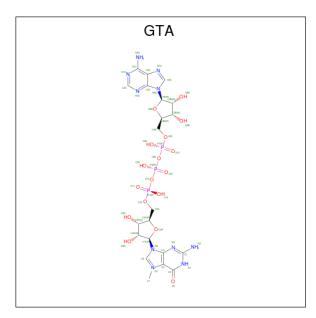
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C H O 10 2 6 2	0	0
7	A	1	Total C H O 10 2 6 2	0	0
7	A	1	Total C H O 10 2 6 2	0	0



• Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	В	2	Total Zn 2 2	0	0

• Molecule 9 is P1-7-METHYLGUANOSINE-P3-ADENOSINE-5',5'-TRIPHOSPHAT E (three-letter code: GTA) (formula:  $C_{21}H_{30}N_{10}O_{17}P_3$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
0	C	1	Total	С	Н	N	О	Р	0	0
9		1	77	21	26	10	17	3	U	0

• Molecule 10 is water.

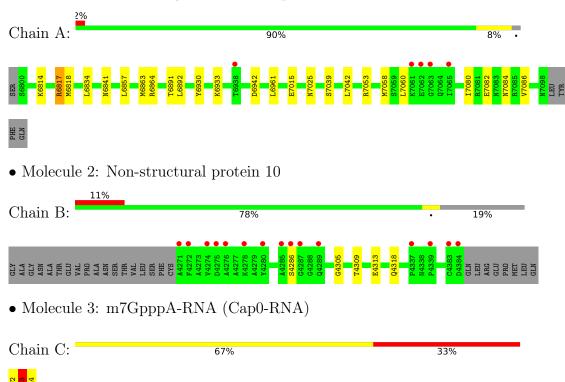
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	A	140	Total O 140 140	0	0
10	В	36	Total O 36 36	0	0
10	С	7	Total O 7 7	0	0



# 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: 2'-O-methyltransferase nsp16





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants	167.14Å 167.14Å 51.83Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
Resolution (Å)	48.80 - 2.10	Depositor
Resolution (A)	48.80 - 2.10	EDS
% Data completeness	99.8 (48.80-2.10)	Depositor
(in resolution range)	99.8 (48.80-2.10)	EDS
$R_{merge}$	0.25	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.42  (at  2.10Å)	Xtriage
Refinement program	PHENIX 1.21_5207	Depositor
$R, R_{free}$	0.187 , $0.224$	Depositor
it, it free	0.188 , $0.225$	DCC
$R_{free}$ test set	1080  reflections  (2.22%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	45.5	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	$0.39\;,50.5$	EDS
L-test for twinning <sup>2</sup>	$< L >=0.52, < L^2>=0.35$	Xtriage
Estimated twinning fraction	0.016 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	6899	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.91% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: EDO, SAM, ZN, SGV, GTA, MES

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	Bo	nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.55	0/2456	0.69	0/3328	
2	В	0.53	0/864	0.67	0/1172	
3	С	10.73	28/48 (58.3%)	3.89	12/72 (16.7%)	
All	All	1.39	$28/3368 \; (0.8\%)$	0.84	$12/4572 \ (0.3\%)$	

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
3	С	2	U	C2-N3	26.59	1.56	1.37
3	С	3	U	C3'-C2'	-24.40	1.25	1.52
3	С	3	U	C2-N3	23.63	1.54	1.37
3	С	3	U	P-O5'	22.46	1.82	1.59
3	С	2	U	C2'-C1'	-19.30	1.32	1.53

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
3	С	2	U	C5-C4-O4	-13.40	117.86	125.90
3	С	2	U	N3-C4-C5	12.39	122.03	114.60
3	С	3	U	N3-C4-C5	8.87	119.92	114.60
3	С	2	U	C2-N3-C4	-8.57	121.86	127.00
3	С	2	U	C1'-O4'-C4'	-8.56	103.05	109.90

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	2398	2394	2382	20	0
2	В	839	798	793	2	0
3	С	45	22	20	1	0
4	A	12	13	13	0	0
5	A	27	22	21	2	0
6	A	22	15	14	1	0
7	A	12	18	18	4	0
8	В	2	0	0	0	0
9	С	51	26	25	3	0
10	A	140	0	0	0	0
10	В	36	0	0	0	0
10	С	7	0	0	0	0
All	All	3591	3308	3286	24	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 4.

The worst 5 of 24 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)
6:A:7203[B]:SGV:O4'	6:A:7203[B]:SGV:C1'	1.69	1.21
1:A:6930:TYR:CD2	9:C:101:GTA:C4C	2.89	0.56
1:A:6841:ASN:ND2	5:A:7202[A]:SAM:OXT	2.38	0.55
1:A:7039:SER:HB2	1:A:7042:LEU:HD12	1.91	0.53
1:A:6864:ARG:NH2	1:A:7084:ASN:O	2.41	0.53

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	Perce	ntiles
1	A	303/304 (100%)	293 (97%)	10 (3%)	0	100	100
2	В	113/140 (81%)	107 (95%)	6 (5%)	0	100	100
All	All	416/444 (94%)	400 (96%)	16 (4%)	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	Perce	ntiles
1	A	$265/264 \ (100\%)$	263 (99%)	2 (1%)	81	86
2	В	93/113 (82%)	92 (99%)	1 (1%)	73	79
All	All	358/377 (95%)	355 (99%)	3 (1%)	78	86

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6817	ARG
1	A	6942	ASP
2	В	4286	SER

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

### 5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
3	С	1/3 (33%)	1 (100%)	0

All (1) RNA backbone outliers are listed below:



Mol	Chain	Res	Type	
3	С	3	U	

There are no RNA pucker outliers to report.

### 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)

Of 9 ligands modelled in this entry, 2 are monoatomic - leaving 7 for Mogul analysis.

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	Trino	Chain	Res	Link	В	ond leng	$_{ m gths}$	Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
7	EDO	A	7204	-	3,3,3	0.34	0	2,2,2	0.03	0
4	MES	A	7201	-	12,12,12	1.57	1 (8%)	14,16,16	1.84	4 (28%)
7	EDO	A	7206	-	3,3,3	0.32	0	2,2,2	0.42	0
9	GTA	С	101	3	46,56,56	5.00	17 (36%)	46,88,88	1.49	6 (13%)
7	EDO	A	7205	-	3,3,3	0.29	0	2,2,2	0.74	0
5	SAM	A	7202[A]	-	24,29,29	4.07	11 (45%)	23,42,42	1.77	7 (30%)
6	SGV	A	7203[B]	-	22,24,24	6.03	11 (50%)	23,36,36	1.65	6 (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
7	EDO	A	7204	-	-	0/1/1/1	-

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	MES	A	7201	-	-	2/6/14/14	0/1/1/1
7	EDO	A	7206	-	-	0/1/1/1	-
9	GTA	С	101	3	-	4/24/64/64	0/6/6/6
7	EDO	A	7205	_	-	1/1/1/1	-
5	SAM	A	7202[A]	-	-	2/12/33/33	0/3/3/3
6	SGV	A	7203[B]	-	-	3/3/26/26	0/3/3/3

The worst 5 of 40 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$Ideal(\AA)$
6	A	7203[B]	$\operatorname{SGV}$	O4'-C1'	20.03	1.69	1.41
9	С	101	GTA	O4A-C1A	15.88	1.63	1.41
9	С	101	GTA	O4B-C1B	15.82	1.63	1.41
6	A	7203[B]	$\operatorname{SGV}$	C2'-C1'	-15.66	1.30	1.53
9	С	101	GTA	C2B-C1B	-14.75	1.31	1.53

The worst 5 of 23 bond angle outliers are listed below:

Mol	Chain	Res	Type	oe Atoms		$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
9	С	101	GTA	N3C-C2C-N1C	-4.97	120.91	128.68
6	A	7203[B]	SGV	N3-C2-N1	-4.45	121.72	128.68
9	С	101	GTA	C3A-C2A-C1A	4.03	107.05	100.98
5	A	7202[A]	SAM	C3'-C2'-C1'	3.80	106.70	100.98
4	A	7201	MES	O1S-S-C8	3.66	111.32	106.92

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	7203[B]	$\operatorname{SGV}$	O12-C10-C7-C8
9	С	101	GTA	C5A-O15-P1-O13
9	С	101	GTA	O4A-C4A-C5A-O15
4	A	7201	MES	C8-C7-N4-C5
9	С	101	GTA	C5A-O15-P1-O11

There are no ring outliers.

5 monomers are involved in 9 short contacts:

Mol	Chain	$\operatorname{Res}$	Type	Clashes	Symm-Clashes
7	A	7206	EDO	2	0

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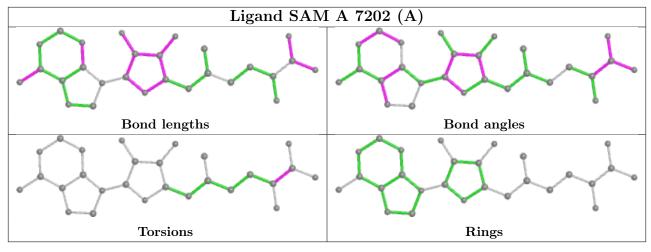


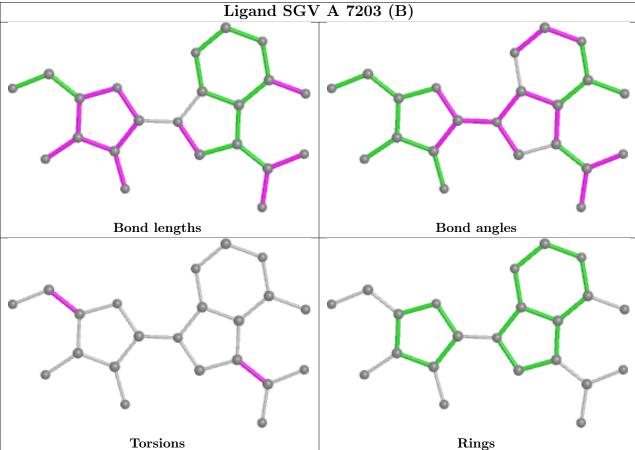
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	С	101	GTA	3	0
7	A	7205	EDO	2	0
5	A	7202[A]	SAM	2	0
6	A	7203[B]	SGV	1	0

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>	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	299/304~(98%)	-0.14	5 (1%) 70 74	35, 45, 74, 102	0
2	В	114/140 (81%)	0.44	15 (13%) 3 4	39, 56, 94, 111	0
3	С	3/3 (100%)	0.93	0 100 100	89, 89, 103, 141	0
All	All	416/447 (93%)	0.02	20 (4%) 30 36	35, 47, 85, 141	0

The worst 5 of 20 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	4271	ALA	4.2
2	В	4339	PRO	4.1
1	A	7061[A]	LYS	3.8
2	В	4285	ALA	3.6
2	В	4383	CYS	3.2

### 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.

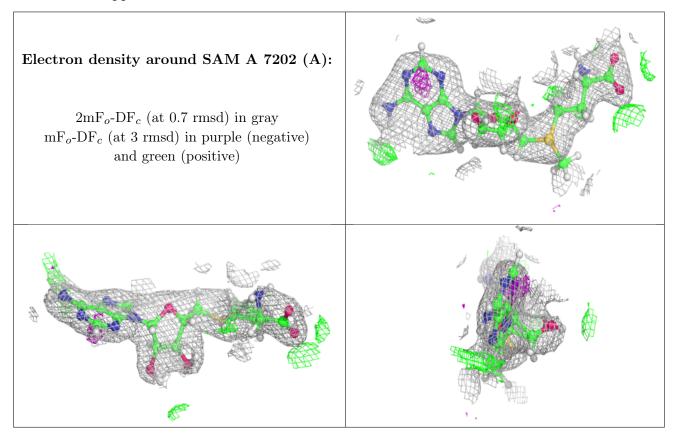
# 6.4 Ligands (i)

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,  $95^{th}$  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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
7	EDO	A	7204	4/4	0.88	0.17	66,79,90,99	0
5	SAM	A	7202[A]	27/27	0.90	0.14	36,52,69,83	49
6	SGV	A	7203[B]	22/22	0.91	0.12	44,53,66,70	37
4	MES	A	7201	12/12	0.91	0.13	50,72,102,109	0
7	EDO	A	7205	4/4	0.94	0.15	57,75,92,92	0
7	EDO	A	7206	4/4	0.94	0.12	57,79,95,95	0
9	GTA	С	101	51/51	0.94	0.15	47,68,94,97	0
8	ZN	В	4402	1/1	0.97	0.06	83,83,83,83	0
8	ZN	В	4401	1/1	0.99	0.12	51,51,51,51	0

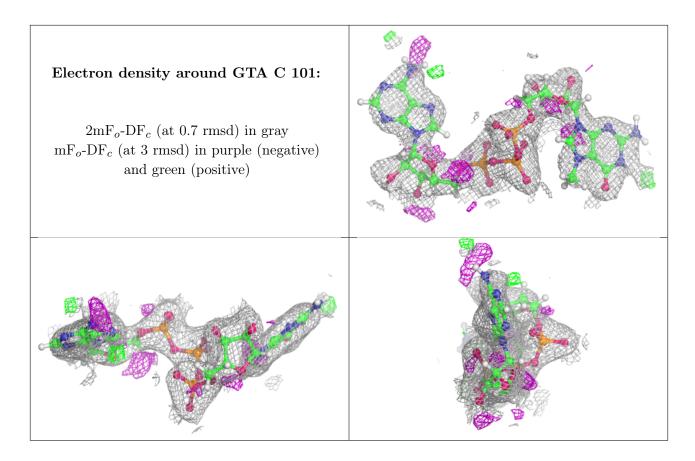
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





# Electron density around SGV A 7203 (B): 2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative) and green (positive)





# 6.5 Other polymers (i)

There are no such residues in this entry.

