

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

May 16, 2020 – 11:49 pm BST

PDB ID : 4084

Title: SAICAR synthetase (Type-1) in complex with GMP

Authors: Manjunath, K.; Jeyakanthan, J.; Sekar, K.

Deposited on : 2013-12-26

Resolution : 2.09 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:

 $Mol Probity \quad : \quad 4.02b\text{-}467$ 

Mogul: 1.8.5 (274361), CSD as 541 be (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

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

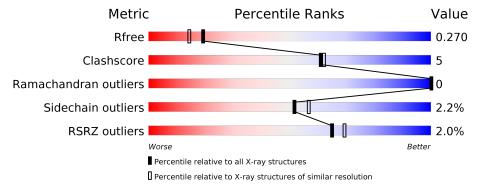
Validation Pipeline (wwPDB-VP) : 2.11

## 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 2.09 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	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)

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	238	83%	12%	5%			
1	В	238	82%	12%	• 5%			



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 3805 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 Phosphoribosylaminoimidazole-succinocarboxamide synthase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	A	227	Total 1783	C 1160			S 1	Se 1	0	0	0
		225		C			$\frac{1}{S}$	Se			
	В	227	1798	1172	288	333	1	4	0	1	0

• Molecule 2 is CADMIUM ION (three-letter code: CD) (formula: Cd).

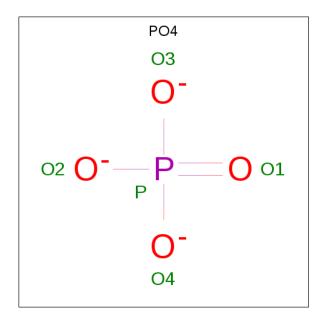
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	7	Total Cd 8 8	0	1
2	A	7	Total Cd 10 10	0	3

• Molecule 3 is GUANOSINE-5'-MONOPHOSPHATE (three-letter code: 5GP) (formula:  $C_{10}H_{14}N_5O_8P$ ).



	Mol	Chain	Residues	${f Atoms}$					ZeroOcc	AltConf	
ſ	2	٨	1	Total	С	N	О	Р	0	0	
	3 A	1	24	10	5	8	1	U			
	2	D	1	Total	С	N	О	Р	0	0	
	3 B		1	24	10	5	8	1	U	U	

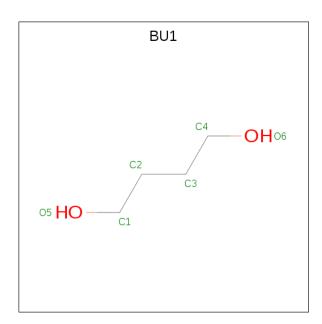
 $\bullet$  Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula:  $\mathrm{O_4P}\,).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O P 5 4 1	0	0
4	В	1	Total O P 5 4 1	0	0

 $\bullet$  Molecule 5 is 1,4-BUTANEDIOL (three-letter code: BU1) (formula:  $\mathrm{C_4H_{10}O_2}).$ 





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 6 4 2	0	0
5	В	1	Total C O 6 4 2	0	0

#### • Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	59	Total O 59 59	0	0
6	В	77	Total O 77 77	0	0



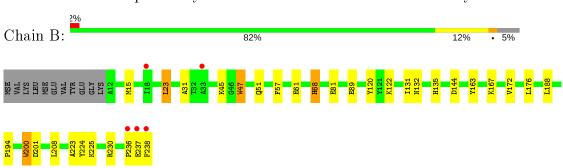
# 3 Residue-property plots (i)

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: Phosphoribosylaminoimidazole-succinocarboxamide synthase



• Molecule 1: Phosphoribosylaminoimidazole-succinocarboxamide synthase





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants	94.81Å 94.81Å 148.05Å	Danagitan
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
Resolution (Å)	54.98 - 2.09	Depositor
Resolution (A)	54.98 - 2.09	EDS
% Data completeness	100.0 (54.98-2.09)	Depositor
(in resolution range)	$100.0 \ (54.98-2.09)$	EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.68 (at 2.08Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
D D.	0.219 , 0.269	Depositor
$R, R_{free}$	0.219 , $0.270$	DCC
$R_{free}$ test set	1504 reflections $(5.12\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	25.2	Xtriage
Anisotropy	0.065	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.37 , 45.3	EDS
L-test for twinning <sup>2</sup>	$< L >=0.48, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.045 for h,-h-k,-l	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	3805	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 12.49% 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: PO4, 5GP, BU1, CD

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	Boı	nd lengths	Bond angles		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.49	0/1815	0.60	0/2443	
1	В	0.50	$2/1835 \ (0.1\%)$	0.59	0/2470	
All	All	0.50	$2/3650 \ (0.1\%)$	0.60	0/4913	

#### All (2) bond length outliers are listed below:

Mol	Chain	${f Res}$	$\mathbf{Type}$	${f Atoms}$	${f Z}$	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}( ext{ iny A})$
1	В	200	TRP	CD2-CE2	5.10	1.47	1.41
1	В	47	TRP	CD2-CE2	5.02	1.47	1.41

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	1783	0	1769	15	0
1	В	1798	0	1778	18	0
2	A	10	0	0	0	0
2	В	8	0	0	0	0
3	A	24	0	12	0	0
3	В	24	0	12	0	0
4	A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	В	5	0	0	0	0
5	A	6	0	10	0	0
5	В	6	0	10	0	0
6	A	59	0	0	1	0
6	В	77	0	0	0	0
All	All	3805	0	3591	33	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 (33) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + a ma 1	A + a 2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({f \AA})$	overlap (Å)
1:A:132:ASN:H	1:A:135:HIS:HD2	1.27	0.82
1:B:132:ASN:H	1:B:135:HIS:HD2	1.34	0.76
1:A:131:ILE:HB	1:A:135:HIS:HB2	1.82	0.62
1:B:131:ILE:HB	1:B:135:HIS:HB2	1.82	0.62
1:B:15:MSE:HE3	1:B:23:LEU:HD11	1.85	0.58
1:B:225:LYS:HG2	1:B:236:PRO:HG2	1.84	0.58
1:B:132:ASN:H	1:B:135:HIS:CD2	2.22	0.53
1:A:132:ASN:H	1:A:135:HIS:CD2	2.17	0.53
1:B:176:LEU:HD22	1:B:188:LEU:HD11	1.92	0.52
1:B:57:PHE:O	1:B:61:GLU:HG3	2.11	0.50
1:A:57:PHE:O	1:A:61:GLU:HG3	2.12	0.50
1:A:31:ALA:HB2	1:A:45:LYS:HE2	1.92	0.50
1:B:208:LEU:HA	1:B:223:ALA:HB1	1.94	0.49
1:A:15:MSE:HE3	1:A:23:LEU:HD11	1.95	0.49
1:A:13:LYS:NZ	6:A:418:HOH:O	2.37	0.49
1:A:89:GLU:HG3	1:A:122:LYS:HG3	1.95	0.47
1:B:237:GLU:O	1:B:238:PHE:HB2	2.15	0.47
1:A:172:VAL:HG21	1:A:200:TRP:CD2	2.51	0.44
1:A:176:LEU:HD22	1:A:188:LEU:HD11	1.99	0.43
1:B:194:PRO:HB2	1:B:224:TYR:CZ	2.53	0.43
1:B:163:TYR:CZ	1:B:167:LYS:HE3	2.53	0.43
1:B:47:TRP:O	1:B:51:GLN:HG2	2.19	0.42
1:A:193:SER:HB2	1:A:194:PRO:HD2	2.00	0.42
1:B:31:ALA:HB2	1:B:45:LYS:HE2	2.02	0.42
1:B:89:GLU:HB2	1:B:120:TYR:HB2	2.02	0.41
1:A:235:LYS:HA	1:A:236:PRO:HD3	1.94	0.41
1:A:194:PRO:HB2	1:A:224:TYR:CZ	2.54	0.41
1:A:163:TYR:CZ	1:A:167:LYS:HE3	2.56	0.41

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Atom-1	Atom-2	$egin{aligned}  ext{Interatomic} \  ext{distance} & ( ext{Å}) \end{aligned}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
1:B:172:VAL:HG21	1:B:200:TRP:CD2	2.56	0.41
1:B:68:HIS:HA	1:B:81:GLU:HG2	2.02	0.41
1:B:201:ASP:OD1	1:B:230:ARG:NH2	2.40	0.41
1:A:133:TYR:CD1	1:A:146:ILE:HG21	2.56	0.41
1:B:89:GLU:HG3	1:B:122:LYS:HG3	2.04	0.40

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	$225/238 \ (94\%)$	216 (96%)	9 (4%)	0	100	100
1	В	$226/238 \; (95\%)$	216 (96%)	10 (4%)	0	100	100
All	All	451/476 (95%)	432 (96%)	19 (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		Percentiles		
1	A	184/203 (91%)	179 (97%)	5 (3%)	44 48		
1	В	185/203 (91%)	182 (98%)	3 (2%)	62 69		
All	All	369/406 (91%)	361 (98%)	8 (2%)	52 57		



A 11 (	(8)	residues	with a	non-rota	americ	sidechain	are	listed	below:
1 T T T 1	$( \cup )$	TODICACO	WIGH G	11011 100	america	bidccitaiii	ar c	mocca	berow.

Mol	Chain	Res	Type
1	A	23	LEU
1	A	32	THR
1	A	68	HIS
1	A	144	ASP
1	A	148	LYS
1	В	23	LEU
1	В	68	HIS
1	В	144	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	${f Res}$	Type
1	A	135	HIS
1	В	135	HIS

#### 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)

Of 24 ligands modelled in this entry, 18 are monoatomic - leaving 6 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	Mol Type Ch		Res	Link	Bo	Bond lengths			Bond angles		
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
3	5GP	A	308	2	22,26,26	1.36	2 (9%)	27,40,40	2.12	9 (33%)	
4	PO4	A	309	-	4,4,4	0.98	0	6,6,6	0.41	0	
5	BU1	В	410	-	5,5,5	0.28	0	4,4,4	0.55	0	
5	BU1	A	310	-	5,5,5	0.23	0	4,4,4	0.59	0	
4	PO4	В	409	-	4,4,4	0.75	0	6,6,6	0.61	0	
3	5GP	В	408	2	22,26,26	1.31	2 (9%)	27,40,40	2.04	6 (22%)	

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	5GP	A	308	2	-	0/6/26/26	0/3/3/3
5	BU1	A	310	_	-	1/3/3/3	-
3	5GP	В	408	2	-	0/6/26/26	0/3/3/3
5	BU1	В	410	_	-	1/3/3/3	-

#### All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
3	A	308	5GP	C6-C5	4.30	1.48	1.41
3	В	408	5GP	C6-C5	4.28	1.48	1.41
3	A	308	5GP	C5-C4	2.69	1.48	1.40
3	В	408	5GP	C5-C4	2.48	1.47	1.40

#### All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
3	В	408	5GP	C2-N3-C4	5.14	121.23	115.36
3	A	308	5GP	C2-N3-C4	5.07	121.14	115.36
3	В	408	5GP	C6-N1-C2	4.28	122.72	115.93
3	A	308	5GP	C6-N1-C2	4.24	122.66	115.93
3	В	408	5GP	C5-C6-N1	-4.21	117.67	123.43
3	A	308	5GP	C6-C5-C4	-3.95	117.02	120.80
3	A	308	5GP	C5-C6-N1	-3.82	118.21	123.43
3	A	308	5GP	N3-C2-N1	-3.79	122.17	127.22
3	В	408	5GP	N3-C2-N1	-3.73	122.25	127.22
3	В	408	5GP	C6-C5-C4	-3.52	117.44	120.80
3	В	408	5GP	C4-C5-N7	-2.72	106.56	109.40
3	A	308	5GP	C4-C5-N7	-2.64	106.65	109.40
3	A	308	5GP	P-O5'-C5'	2.50	125.17	118.30

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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	308	5GP	O3P-P-O2P	2.18	115.98	107.64
3	A	308	5GP	O3P-P-O5'	-2.11	101.13	106.73

There are no chirality outliers.

All (2) torsion outliers are listed below:

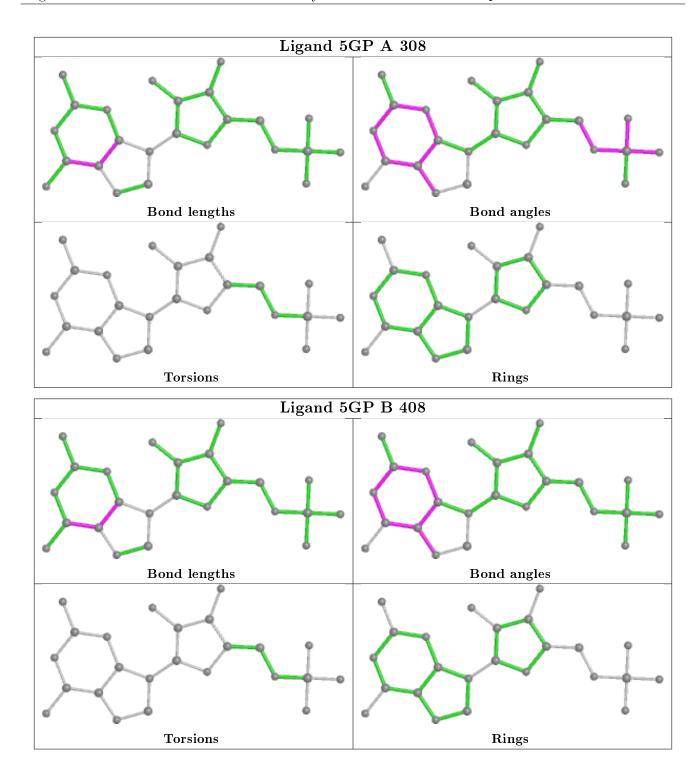
Mol	Chain	Res	Type	Atoms
5	A	310	BU1	C2-C3-C4-O6
5	В	410	BU1	O5-C1-C2-C3

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.





# 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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	223/238 (93%)	-0.04	4 (1%) 68 72	14, 26, 42, 61	0
1	В	223/238 (93%)	0.03	5 (2%) 62 66	13, 25, 46, 78	0
All	All	446/476 (93%)	-0.01	9 (2%) 65 69	13, 26, 46, 78	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	В	238	PHE	3.5	
1	В	18	ILE	3.4	
1	A	237	GLU	3.3	
1	В	236	PRO	2.9	
1	В	237	GLU	2.7	
1	A	34	PHE	2.5	
1	A	238	PHE	2.3	
1	В	33	ALA	2.2	
1	A	124	ASP	2.1	

## 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 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.

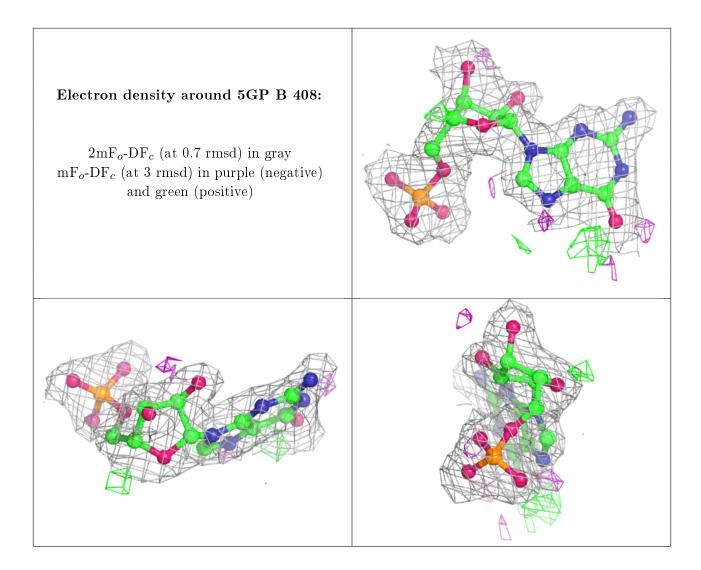
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}({ ext{\AA}}^2)$	Q<0.9
5	BU1	В	410	6/6	0.75	0.21	44,45,47,49	0
5	BU1	A	310	6/6	0.84	0.19	36,37,38,39	0
4	PO4	В	409	5/5	0.90	0.24	44,45,48,50	0
3	5GP	A	308	24/24	0.92	0.19	31,34,36,37	0
3	5GP	В	408	24/24	0.92	0.13	25,29,31,31	0
2	CD	В	404	1/1	0.93	0.08	58,58,58,58	1
2	CD	В	402	1/1	0.93	0.05	59,59,59,59	1
2	CD	В	401	1/1	0.94	0.06	54,54,54,54	0
2	CD	В	407	1/1	0.94	0.11	45,45,45,45	1
2	CD	A	306	1/1	0.94	0.08	49,49,49,49	1
2	CD	A	302	1/1	0.95	0.09	45,45,45,45	0
2	CD	A	305	1/1	0.96	0.04	67,67,67,67	1
2	CD	В	406[B]	1/1	0.97	0.08	53,53,53,53	1
4	PO4	A	309	5/5	0.97	0.19	44,45,46,47	0
2	CD	A	307[A]	1/1	0.97	0.07	37,37,37,37	1
2	CD	В	406[A]	1/1	0.97	0.08	46,46,46,46	1
2	CD	A	307[B]	1/1	0.97	0.07	67,67,67,67	1
2	CD	A	304[B]	1/1	0.98	0.06	46,46,46,46	1
2	CD	В	403	1/1	0.98	0.06	42,42,42,42	0
2	CD	A	304[A]	1/1	0.98	0.06	37,37,37,37	1
2	CD	A	303[B]	1/1	0.99	0.04	42,42,42,42	1
2	CD	В	405	1/1	0.99	0.07	34,34,34,34	0
2	CD	A	303[A]	1/1	0.99	0.04	41,41,41,41	1
2	CD	A	301	1/1	0.99	0.10	19,19,19,19	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.



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## 6.5 Other polymers (i)

There are no such residues in this entry.

