

Full wwPDB X-ray Structure Validation Report (i)

Jan 27, 2022 – 03:14 pm GMT

PDB ID : 70BJ

Title : Carbon regulatory PII-like protein SbtB from Synechocystis sp. 6803 in com-

plex with cyclic di-AMP (c-di-AMP)

Authors: Selim, K.A.; Albrecht, R.; Hartmann, M.D.

Deposited on : 2021-04-22

Resolution : 2.00 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

Mogul: 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.26

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0267

CCP4 : 7.1.010 (Gargrove)

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

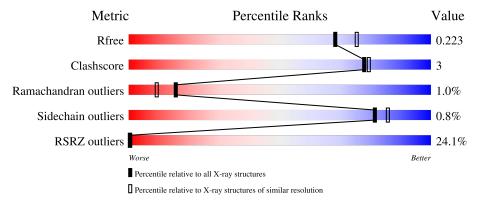
Validation Pipeline (wwPDB-VP) : 2.26

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 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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		
			30%			
1	A	120		79%	•	17%
			15%			
1	В	120		78%	8% •	14%
			16%			
1	С	120		78% 5	5%	17%



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 2502 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 Membrane-associated protein slr1513.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Λ	100	Total	С	N	O S		0	1	0
1	A	100	757	483	122	147	5	0	1	0
1	D	103	Total	С	N	О	S	0	9	0
1	Ъ	105	794	510	128	151	5	0	Δ	
1	С	100	Total	С	N	О	S	0	1	0
1		100	758	485	122	145	6	0	1	0

There are 30 discrepancies between the modelled and reference sequences:

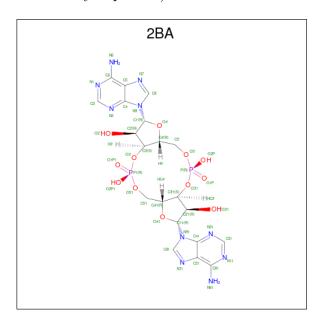
Chain	Residue	Modelled	Actual	Comment	Reference
A	111	SER	-	expression tag	UNP P73954
A	112	ALA	-	expression tag	UNP P73954
A	113	TRP	-	expression tag	UNP P73954
A	114	SER	-	expression tag	UNP P73954
A	115	HIS	-	expression tag	UNP P73954
A	116	PRO	-	expression tag	UNP P73954
A	117	GLN	-	expression tag	UNP P73954
A	118	PHE	-	expression tag	UNP P73954
A	119	GLU	-	expression tag	UNP P73954
A	120	LYS	-	expression tag	UNP P73954
В	111	SER	-	expression tag	UNP P73954
В	112	ALA	-	expression tag	UNP P73954
В	113	TRP	-	expression tag	UNP P73954
В	114	SER	-	expression tag	UNP P73954
В	115	HIS	-	expression tag	UNP P73954
В	116	PRO	-	expression tag	UNP P73954
В	117	GLN	-	expression tag	UNP P73954
В	118	PHE	-	expression tag	UNP P73954
В	119	GLU	-	expression tag	UNP P73954
В	120	LYS	-	expression tag	UNP P73954
С	111	SER	-	expression tag	UNP P73954
С	112	ALA	-	expression tag	UNP P73954
С	113	TRP	-	expression tag	UNP P73954



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0 0 1000100000			

Chain	Residue	Modelled	Actual	Comment	Reference
С	114	SER	-	expression tag	UNP P73954
С	115	HIS	-	expression tag	UNP P73954
С	116	PRO	-	expression tag	UNP P73954
С	117	GLN	_	expression tag	UNP P73954
С	118	PHE	-	expression tag	UNP P73954
С	119	GLU	-	expression tag	UNP P73954
С	120	LYS	-	expression tag	UNP P73954

• Molecule 2 is (2R,3R,3aS,5R,7aR,9R,10R,10aS,12R,14aR)-2,9-bis(6-amino-9H-purin-9-yl)oc tahydro-2H,7H-difuro[3,2-d:3',2'-j][1,3,7,9,2,8] tetraoxadiphosphacyclododecine-3,5,10,12-tet rol 5,12-dioxide (three-letter code: 2BA) (formula: $C_{20}H_{24}N_{10}O_{12}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
9	Λ	1	Total	С	N	О	Р	0	0
	2 A	1	44	20	10	12	2	0	U
9	Λ	1	Total	С	N	О	Р	0	0
	A	1	44	20	10	12	2	0	0

• Molecule 3 is water.

N	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
,	3	A	36	Total O 36 36	0	0
	3	В	35	Total O 35 35	0	0



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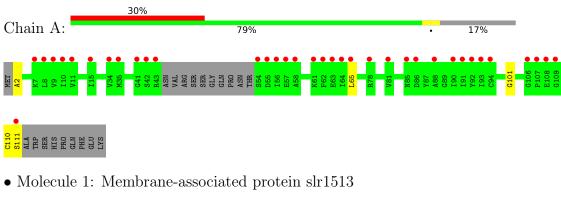
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	С	34	Total O 34 34	0	0

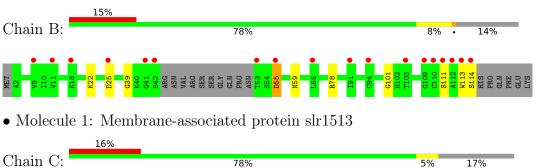


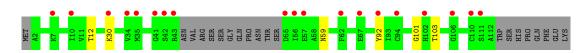
3 Residue-property plots (i)

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: Membrane-associated protein slr1513









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32	Depositor
Cell constants	63.17Å 63.17Å 81.73Å	Dan asitan
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	32.74 - 2.00	Depositor
Resolution (A)	32.74 - 2.00	EDS
% Data completeness	99.6 (32.74-2.00)	Depositor
(in resolution range)	99.7 (32.74-2.00)	EDS
R_{merge}	0.06	Depositor
R_{sum}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.01 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
P.P.	0.178 , 0.215	Depositor
R, R_{free}	0.185 , 0.223	DCC
R_{free} test set	1231 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	50.8	Xtriage
Anisotropy	0.013	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.32$	Xtriage
	0.014 for -h,-k,l	
Estimated twinning fraction	0.052 for h,-h-k,-l	Xtriage
	0.033 for -k,-h,-l	
F_o, F_c correlation	0.97	EDS
Total number of atoms	2502	wwPDB-VP
Average B, all atoms (Å ²)	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.88% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: 2BA

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		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.80	0/769	0.86	0/1033	
1	В	0.91	0/808	0.94	$2/1087 \ (0.2\%)$	
1	С	0.90	0/770	0.87	0/1034	
All	All	0.87	0/2347	0.89	2/3154 (0.1%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	В	78	ARG	NE-CZ-NH2	-7.43	116.59	120.30
1	В	78	ARG	NE-CZ-NH1	7.26	123.93	120.30

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	757	0	766	3	0
1	В	794	0	806	6	0
1	С	758	0	770	3	0
2	A	88	0	46	3	0
3	A	36	0	0	2	0
3	В	35	0	0	3	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	34	0	0	0	0
All	All	2502	0	2388	14	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 3.

All (14) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({ m \AA})$	overlap (Å)
1:B:113:TRP:O	1:B:114:SER:HB3	1.99	0.63
1:B:55:ASP:HB2	3:B:231:HOH:O	2.06	0.56
1:A:2:ALA:N	3:A:302:HOH:O	2.40	0.53
1:B:22[B]:LYS:NZ	3:B:202:HOH:O	2.41	0.53
2:A:201:2BA:O1P1	3:A:301:HOH:O	2.19	0.51
2:A:201:2BA:O5'	2:A:201:2BA:H8	2.12	0.49
1:B:25:ASP:O	3:B:201:HOH:O	2.20	0.48
1:B:113:TRP:O	1:B:114:SER:CB	2.63	0.46
1:C:30:LYS:HB3	1:C:103:THR:HG22	1.99	0.44
1:A:65:LEU:HD11	1:C:92:TYR:CD2	2.53	0.43
1:C:12:THR:O	1:C:59:ASN:HB2	2.20	0.41
1:B:39:GLY:HA3	1:B:59:ASN:ND2	2.35	0.41
1:A:110:CYS:O	1:A:111:SER:HB2	2.22	0.40
2:A:202:2BA:H8	2:A:202:2BA:O5'	2.21	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	97/120 (81%)	96 (99%)	0	1 (1%)	15 9
1	В	101/120 (84%)	98 (97%)	2 (2%)	1 (1%)	15 9



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	С	97/120 (81%)	95 (98%)	1 (1%)	1 (1%)	15 9
All	All	295/360~(82%)	289 (98%)	3 (1%)	3 (1%)	15 9

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	GLY
1	С	101	GLY
1	В	101	GLY

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	80/99 (81%)	80 (100%)	0	100	100
1	В	83/99 (84%)	81 (98%)	2 (2%)	49	51
1	С	79/99 (80%)	79 (100%)	0	100	100
All	All	242/297 (82%)	240 (99%)	2 (1%)	81	86

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

Mol	Chain	Res	Type
1	В	55	ASP
1	В	111	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	59	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 monosaccharides 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	Type	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Res	Link	Bond lengths			Bond angles		
IVIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2								
2	2BA	A	202	-	44,50,50	1.12	4 (9%)	50,78,78	1.64	10 (20%)								
2	2BA	A	201	-	44,50,50	1.36	6 (13%)	50,78,78	1.30	6 (12%)								

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	2BA	A	202	-	-	0/22/62/62	0/6/7/7
2	2BA	A	201	-	=	0/22/62/62	0/6/7/7

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
2	A	201	2BA	C5-C4	3.65	1.50	1.40



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Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
2	A	202	2BA	C51-C41	3.21	1.49	1.40
2	A	201	2BA	C2-N3	2.97	1.36	1.32
2	A	201	2BA	C51-C41	2.97	1.48	1.40
2	A	202	2BA	C21-N31	2.71	1.36	1.32
2	A	201	2BA	C2-N1	2.31	1.38	1.33
2	A	201	2BA	P-O5'	2.26	1.68	1.59
2	A	202	2BA	O4'-C1'	2.23	1.44	1.41
2	A	202	2BA	C5-C4	2.19	1.46	1.40
2	A	201	2BA	O4'1-C1'1	2.12	1.44	1.41

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	202	2BA	N3-C2-N1	-4.76	121.24	128.68
2	A	202	2BA	C2-N1-C6	4.18	125.91	118.75
2	A	202	2BA	N31-C21-N11	-3.65	122.97	128.68
2	A	202	2BA	N6-C6-N1	3.46	125.77	118.57
2	A	201	2BA	N31-C21-N11	-3.38	123.39	128.68
2	A	202	2BA	C1'1-N91-C41	-2.83	121.66	126.64
2	A	202	2BA	C41-C51-N71	-2.57	106.72	109.40
2	A	201	2BA	N3-C2-N1	-2.46	124.83	128.68
2	A	202	2BA	O5'-C5'-C4'	-2.39	100.77	108.99
2	A	202	2BA	C5-C6-N1	-2.36	115.00	120.35
2	A	201	2BA	C1'-N9-C4	-2.34	122.53	126.64
2	A	201	2BA	N61-C61-N11	2.30	123.35	118.57
2	A	201	2BA	C21-N11-C61	2.27	122.64	118.75
2	A	201	2BA	O2P1-P1-O1P1	2.24	123.33	112.24
2	A	202	2BA	C21-N11-C61	2.19	122.51	118.75
2	A	202	2BA	O2'-C2'-C3'	2.07	117.05	111.17

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

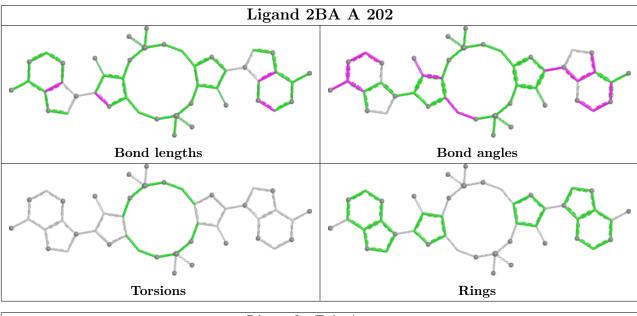
2 monomers are involved in 3 short contacts:

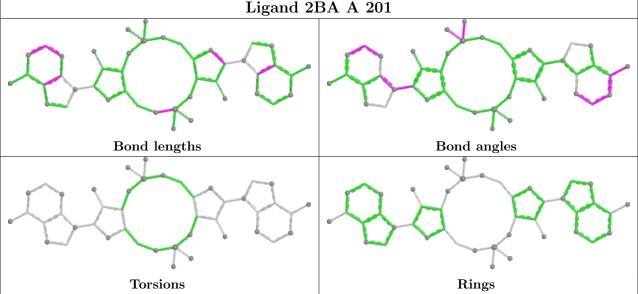
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	202	2BA	1	0
2	A	201	2BA	2	0

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	A	100/120 (83%)	1.65	36 (36%)	0	0	41, 57, 89, 120	0
1	В	103/120 (85%)	1.22	18 (17%)	1	1	38, 52, 91, 123	0
1	С	100/120 (83%)	1.23	19 (19%)	1	1	40, 55, 96, 109	0
All	All	303/360 (84%)	1.37	73 (24%)	0	0	38, 55, 94, 123	0

All (73) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	42	SER	11.2
1	В	53	THR	8.5
1	A	42	SER	7.6
1	A	86	ASP	7.5
1	С	111	SER	7.3
1	С	43	ARG	6.8
1	В	112	ALA	6.2
1	A	54	SER	5.8
1	A	85	ASN	5.7
1	С	41	GLY	5.7
1	С	42	SER	5.6
1	В	114	SER	5.6
1	В	113	TRP	5.2
1	A	108	GLU	4.7
1	С	56	ILE	4.4
1	A	9	VAL	4.4
1	С	35[A]	MET	4.4
1	A	43	ARG	4.2
1	A	107	PRO	4.2
1	В	109	GLY	4.0
1	A	109	GLY	4.0
1	A	55	ASP	3.9
1	A	8	LEU	3.7



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Mol	Chain	Res	Type	RSRZ					
1	A	56	ILE	3.6					
1	С	55	ASP	3.5					
1	A	111	SER	3.4					
1	A	64	ILE	3.4					
1	В	91	ILE	3.4					
1	В	65	LEU	3.4					
1	С	57	GLU	3.3					
1	В	94	CYS	3.2					
1	A	41	GLY	3.2					
1	A	35	MET	3.2					
1	A	92	TYR	3.1					
1	С	110	CYS	3.0					
1	A	93	ILE	3.0					
1	В	18	LYS	2.9					
1	В	41	GLY	2.9					
1	A	15	ILE	2.9					
1	A	65	LEU	2.9					
1	A	10	ILE	2.8					
1	A	94	CYS	2.8					
1	С	92	TYR	2.7					
1	A	91	ILE	2.7					
1	С	94	CYS	2.6					
1	С	62	PHE	2.6					
1	В	111	SER	2.6					
1	С	102	HIS	2.6					
1	В	9	VAL	2.6					
1	С	67	GLU	2.6					
1	A	57	GLU	2.5					
1	В	55	ASP	2.5					
1	С	7	LYS	2.5					
1	A	11	VAL	2.4					
1	В	110	CYS	2.3					
1	A	88	ALA	2.3					
1	A	78	ARG	2.3					
1	A	34	VAL	2.2					
1	A	106	GLY	2.2					
1	A	7	LYS	2.2					
1	A	62	PHE	2.2					
1	В	11	VAL	2.2					
1	A	90	ILE	2.2					
1	В	103	THR	2.2					
1	В	25	ASP	2.2					
	i .	1	1						



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Mol	Chain	Res	Type	RSRZ
1	A	61	LYS	2.2
1	С	10	ILE	2.1
1	A	81	VAL	2.1
1	С	30	LYS	2.1
1	С	34	VAL	2.1
1	A	63	GLU	2.1
1	С	106	GLY	2.0
1	A	58	ALA	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.

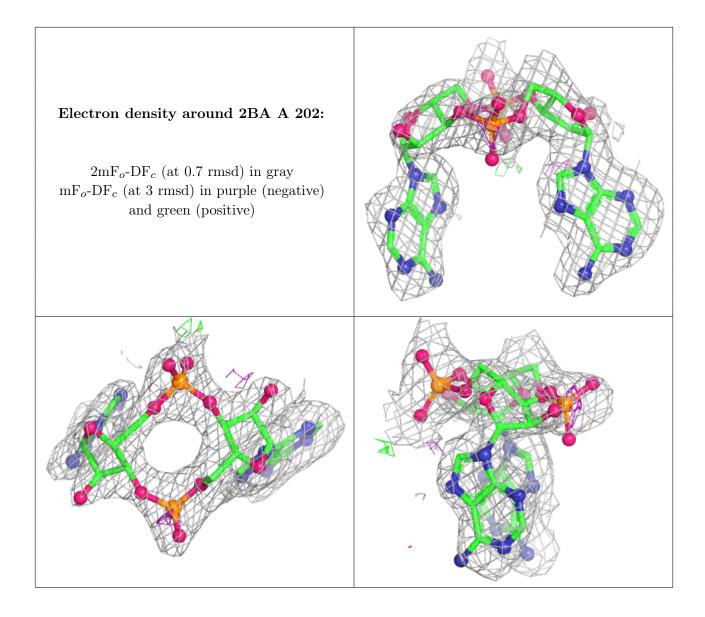
6.4 Ligands (i)

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, 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.

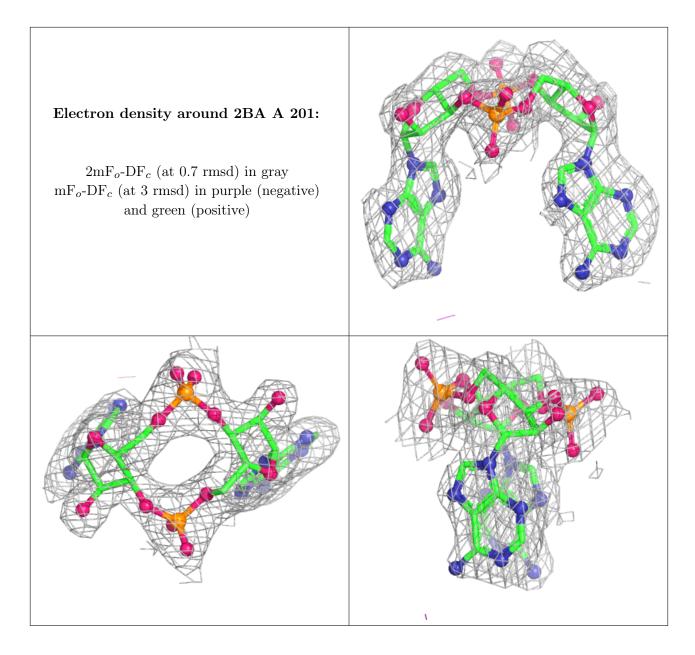
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	2BA	A	202	44/44	0.72	0.29	52,70,80,92	0
2	2BA	A	201	44/44	0.82	0.21	49,58,70,70	0

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.

