

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

#### Nov 25, 2024 - 06:34 PM EST

PDB ID	:	3LLE
Title	:	X-ray structure of bovine $SC0322$ , $Ca(2+)$ -S100B
Authors	:	Charpentier, T.H.; Weber, D.J.; Wilder, P.W.
Deposited on		
Resolution	:	1.85  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 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:

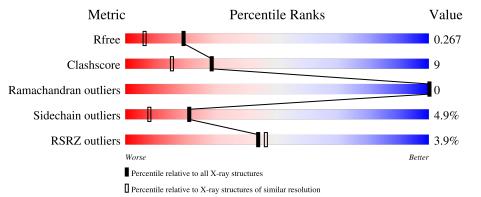
Xtriage (Phenix)	: :	
CCP4	: :	20231227.v01 (using entries in the PDB archive December 27th 2023) 9.0.004 (Gargrove)
Density-Fitness Ideal geometry (proteins) Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)	:	Engh & Huber (2001)

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY\;DIFFRACTION$ 

The reported resolution of this entry is 1.85 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	164625	3097 (1.86-1.86)
Clashscore	180529	3359(1.86-1.86)
Ramachandran outliers	177936	3335 (1.86-1.86)
Sidechain outliers	177891	3335 (1.86-1.86)
RSRZ outliers	164620	3097 (1.86-1.86)

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%

Mol	Chain	Length	Quality of chain		
1	А	92	<b>4%</b> 75%	20%	••••
1	В	92	78%	18%	•••



## 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 1658 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.

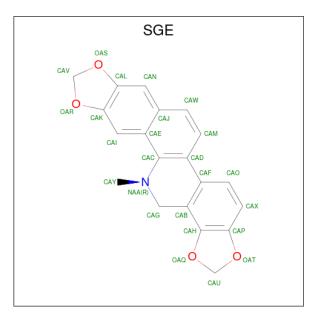
• Molecule 1 is a protein called Protein S100-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	90	Total 749			0 152	${f S}7$	0	4	0
1	В	90	Total 732			0 148	S 6	0	1	0

• Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	2	Total Ca 2 2	0	0
2	В	2	Total Ca 2 2	0	0

• Molecule 3 is 13-methyl-13,14-dihydro[1,3]benzodioxolo[5,6-c][1,3]dioxolo[4,5-i]phenanthridi ne (three-letter code: SGE) (formula:  $C_{20}H_{15}NO_4$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccccccc} {\rm Total} & {\rm C} & {\rm N} & {\rm O} \\ 25 & 20 & 1 & 4 \end{array}$	0	0
3	В	1	Total         C         N         O           25         20         1         4	0	0

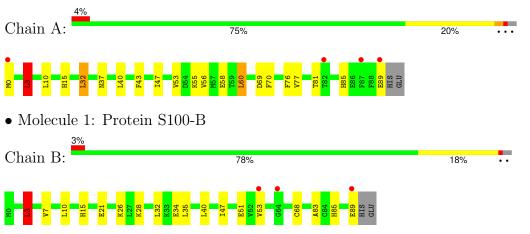
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	71	Total         O           71         71	0	0
4	В	52	$\begin{array}{cc} \text{Total} & \text{O} \\ 52 & 52 \end{array}$	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. 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. 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: Protein S100-B



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants	$46.27\text{\AA}$ $46.27\text{\AA}$ $172.41\text{\AA}$	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
Resolution (Å)	57.45 - 1.85	Depositor
Resolution (A)	57.45 - 1.85	EDS
% Data completeness	99.2(57.45-1.85)	Depositor
(in resolution range)	99.5(57.45 - 1.85)	EDS
R <sub>merge</sub>	0.06	Depositor
$\mathrm{R}_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.96 (at 1.84 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
$R, R_{free}$	0.196 , $0.231$	Depositor
II, IIfree	0.243 , $0.267$	DCC
$R_{free}$ test set	981 reflections $(5.14\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	26.8	Xtriage
Anisotropy	0.051	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.34 , 27.8	EDS
L-test for $twinning^2$	$< L >=0.49, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.036 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	1658	wwPDB-VP
Average B, all atoms $(Å^2)$	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.64% of the height of the origin peak. No significant pseudotranslation is detected.

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



<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: CA, SGE

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		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	1.19	2/772~(0.3%)	1.03	5/1032~(0.5%)	
1	В	1.12	3/746~(0.4%)	0.92	3/998~(0.3%)	
All	All	1.16	5/1518~(0.3%)	0.98	8/2030~(0.4%)	

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	70	PHE	CE1-CZ	6.48	1.49	1.37
1	А	53	VAL	CA-CB	5.44	1.66	1.54
1	В	83	ALA	CA-CB	5.08	1.63	1.52
1	В	68	CYS	CB-SG	5.02	1.90	1.82
1	В	34	GLU	CD-OE1	-5.01	1.20	1.25

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	В	3	LEU	CB-CG-CD2	7.36	123.51	111.00
1	А	3	LEU	CB-CG-CD2	5.57	120.46	111.00
1	А	77	VAL	CA-CB-CG2	-5.54	102.59	110.90
1	А	60	LEU	CB-CG-CD2	-5.54	101.59	111.00
1	В	26	LYS	CD-CE-NZ	-5.46	99.15	111.70
1	А	32	LEU	CB-CG-CD2	5.19	119.82	111.00
1	В	3	LEU	CB-CG-CD1	5.17	119.79	111.00
1	А	69	ASP	CB-CG-OD1	5.00	122.80	118.30

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	А	749	0	728	20	0
1	В	732	0	707	16	0
2	А	2	0	0	0	0
2	В	2	0	0	0	0
3	А	25	0	13	0	0
3	В	25	0	14	0	0
4	А	71	0	0	2	0
4	B	52	0	0	2	0
All	All	1658	0	1462	26	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 9.

All (26) 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:37:ASN:HD21	1:A:47:ILE:H	1.19	0.89
1:A:10[A]:LEU:HD11	1:B:10[A]:LEU:HD22	1.64	0.79
1:A:85:HIS:ND1	1:B:15:HIS:HE1	1.86	0.72
1:B:15:HIS:HD2	4:B:120:HOH:O	1.75	0.68
1:A:37:ASN:ND2	1:A:47:ILE:H	1.92	0.66
1:A:15:HIS:HE1	1:B:85:HIS:ND1	1.97	0.63
1:A:3:LEU:HD13	1:B:40:LEU:HD21	1.80	0.62
1:A:10[A]:LEU:HD11	1:B:10[A]:LEU:CD2	2.31	0.61
1:A:60:LEU:HD21	1:A:76:PHE:CD1	2.38	0.58
1:A:15:HIS:HD2	4:A:126:HOH:O	1.84	0.58
1:A:10[A]:LEU:HD23	1:B:3:LEU:CD2	2.36	0.55
1:A:60:LEU:HD22	1:A:76:PHE:HB2	1.90	0.53
1:A:56:VAL:O	1:A:60:LEU:HG	2.11	0.51
1:B:47:ILE:HG21	1:B:53:VAL:HG22	1.92	0.51
1:A:81:THR:HG21	1:B:7:VAL:HG11	1.95	0.48
1:A:43:PHE:CE1	1:A:81:THR:HG22	2.49	0.47
1:B:21:GLU:HB2	1:B:28:LYS:HE3	2.00	0.43
1:A:10[A]:LEU:CD1	1:B:10[A]:LEU:CD2	2.97	0.43
1:A:40:LEU:HD21	1:B:3:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:LEU:C	1:B:35:LEU:HD23	2.40	0.42
1:A:55:LYS:HG3	4:A:149:HOH:O	2.19	0.41
1:B:89:GLU:C	4:B:109:HOH:O	2.58	0.41
1:A:60:LEU:HD21	1:A:76:PHE:HD1	1.85	0.41
1:A:81:THR:HG21	1:B:7:VAL:CG1	2.51	0.41

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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	Perce	entiles
1	А	92/92~(100%)	91 (99%)	1 (1%)	0	100	100
1	В	89/92~(97%)	89 (100%)	0	0	100	100
All	All	181/184~(98%)	180 (99%)	1 (1%)	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	А	85/83~(102%)	80 (94%)	5~(6%)	16 5
1	В	82/83~(99%)	79~(96%)	3~(4%)	29 14
All	All	167/166~(101%)	159~(95%)	8 (5%)	21 8



Mol	Chain	Res	Type
1	А	0	MET
1	А	3	LEU
1	А	32	LEU
1	А	58	GLU
1	А	89	GLU
1	В	3	LEU
1	В	32	LEU
1	В	51	GLU

All (8) residues with a non-rotameric sidechain are listed below:

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	15	HIS
1	А	16	GLN
1	А	37	ASN
1	В	15	HIS
1	В	16	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)

Of 6 ligands modelled in this entry, 4 are monoatomic - leaving 2 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



Mol Type	Chain	Chain	Chain	Chain	Res	Link	В	ond leng	gths	B	ond ang	gles
	туре	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2		
3	SGE	А	94	1	$29,\!30,\!30$	2.36	12 (41%)	41,46,46	2.82	19 (46%)		
3	SGE	В	94	1	29,30,30	2.40	10 (34%)	41,46,46	2.51	17 (41%)		

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).

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	SGE	А	94	1	-	-	0/6/6/6
3	SGE	В	94	1	-	-	0/6/6/6

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	В	94	SGE	CAG-CAB	-6.24	1.45	1.51
3	А	94	SGE	CAC-CAD	6.20	1.51	1.40
3	В	94	SGE	CAY-NAA	5.11	1.54	1.46
3	В	94	SGE	CAC-CAD	4.52	1.48	1.40
3	А	94	SGE	CAI-CAK	4.14	1.44	1.36
3	В	94	SGE	CAI-CAK	4.01	1.43	1.36
3	А	94	SGE	CAF-CAD	3.98	1.51	1.43
3	В	94	SGE	CAE-CAJ	3.35	1.49	1.43
3	А	94	SGE	CAO-CAX	3.21	1.43	1.36
3	А	94	SGE	CAH-CAB	3.10	1.45	1.38
3	А	94	SGE	CAY-NAA	3.09	1.51	1.46
3	А	94	SGE	CAC-CAE	2.89	1.45	1.40
3	А	94	SGE	CAC-NAA	2.86	1.47	1.41
3	В	94	SGE	OAT-CAP	-2.51	1.33	1.38
3	В	94	SGE	CAC-NAA	2.50	1.47	1.41
3	В	94	SGE	CAC-CAE	2.50	1.44	1.40
3	В	94	SGE	CAL-CAK	2.30	1.44	1.39
3	А	94	SGE	OAS-CAV	2.15	1.47	1.43
3	А	94	SGE	OAR-CAK	2.13	1.41	1.38
3	А	94	SGE	CAW-CAM	2.06	1.40	1.35
3	В	94	SGE	CAO-CAX	2.04	1.41	1.36
3	А	94	SGE	CAE-CAJ	2.02	1.46	1.43

All (36) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	В	94	SGE	CAB-CAG-NAA	6.86	120.81	112.47
3	А	94	SGE	CAB-CAF-CAD	-6.12	113.72	120.14
3	А	94	SGE	CAI-CAE-CAJ	6.06	125.33	118.64
3	А	94	SGE	CAK-CAI-CAE	-5.56	111.04	120.59
3	А	94	SGE	CAU-OAT-CAP	5.42	112.57	105.32
3	А	94	SGE	OAQ-CAH-CAB	5.41	135.00	126.74
3	А	94	SGE	CAU-OAQ-CAH	4.68	110.62	105.05
3	В	94	SGE	OAT-CAP-CAH	-4.64	104.91	109.62
3	В	94	SGE	CAP-CAH-CAB	-4.63	114.69	122.80
3	В	94	SGE	CAV-OAS-CAL	4.51	111.35	105.32
3	В	94	SGE	OAS-CAL-CAN	4.47	131.58	128.10
3	А	94	SGE	CAV-OAS-CAL	4.15	110.88	105.32
3	В	94	SGE	CAI-CAE-CAJ	4.06	123.12	118.64
3	В	94	SGE	OAQ-CAH-CAB	3.91	132.70	126.74
3	А	94	SGE	OAT-CAP-CAH	-3.62	105.95	109.62
3	В	94	SGE	CAU-OAT-CAP	3.59	110.12	105.32
3	А	94	SGE	CAL-CAN-CAJ	-3.57	114.01	120.08
3	А	94	SGE	OAT-CAU-OAQ	-3.51	102.58	108.09
3	А	94	SGE	OAR-CAK-CAI	-3.50	125.37	128.10
3	В	94	SGE	CAK-CAI-CAE	-3.35	114.84	120.59
3	А	94	SGE	OAS-CAL-CAK	-3.18	105.93	109.79
3	А	94	SGE	CAP-CAH-CAB	-3.12	117.33	122.80
3	В	94	SGE	CAY-NAA-CAG	-3.05	110.29	115.66
3	В	94	SGE	OAS-CAL-CAK	-2.90	106.28	109.79
3	В	94	SGE	CAE-CAC-CAD	-2.72	117.41	122.17
3	В	94	SGE	OAT-CAU-OAQ	-2.70	103.86	108.09
3	А	94	SGE	CAO-CAF-CAD	2.70	127.80	122.35
3	В	94	SGE	CAH-CAB-CAF	2.62	122.44	118.86
3	А	94	SGE	OAT-CAP-CAX	2.56	132.66	127.72
3	А	94	SGE	CAN-CAL-CAK	2.53	125.07	121.79
3	А	94	SGE	CAY-NAA-CAG	-2.29	111.63	115.66
3	В	94	SGE	CAB-CAF-CAD	-2.26	117.76	120.14
3	А	94	SGE	OAQ-CAH-CAP	-2.25	107.31	109.82
3	А	94	SGE	OAS-CAV-OAR	-2.17	104.69	108.09
3	В	94	SGE	OAT-CAP-CAX	2.15	131.85	127.72
3	В	94	SGE	CAC-CAD-CAF	-2.10	116.62	118.70

There are no chirality outliers.

There are no torsion outliers.

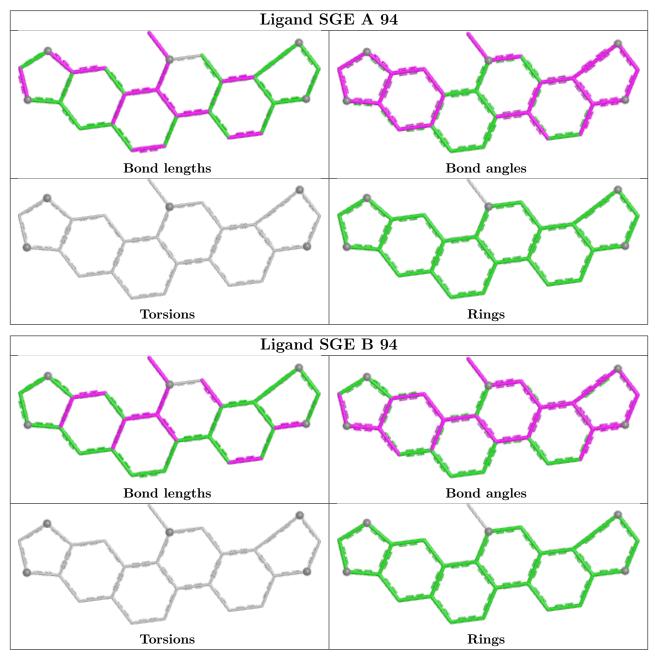
There are no ring outliers.

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)

**Warning**: The R factor obtained from EDS is 0.2505, which does not match the depositor's R factor of 0.1955. Please interpret the results in this section carefully.

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	90/92~(97%)	0.31	4 (4%) 39 42	17, 31, 56, 76	4 (4%)
1	В	90/92~(97%)	0.40	3 (3%) 49 53	20, 35, 57, 67	1 (1%)
All	All	180/184~(97%)	0.35	7 (3%) 44 46	17, 33, 57, 76	5 (2%)

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	0	MET	3.3
1	А	87	PHE	2.8
1	А	89	GLU	2.8
1	В	89	GLU	2.1
1	А	82	THR	2.1
1	В	64	GLY	2.1
1	В	53	VAL	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.

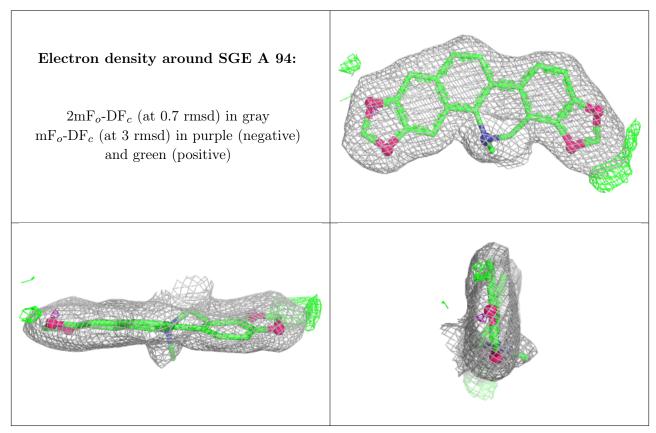


### 6.4 Ligands (i)

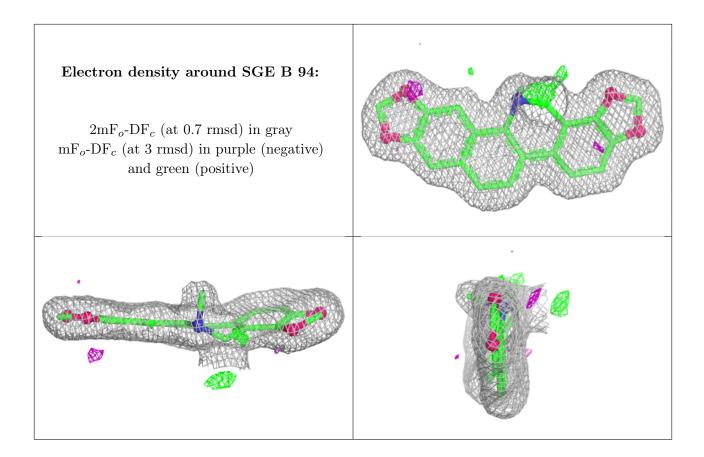
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	SGE	А	94	25/25	0.88	0.09	$28,\!31,\!34,\!37$	0
2	CA	В	92	1/1	0.94	0.08	29,29,29,29	0
3	SGE	В	94	25/25	0.95	0.07	16,20,24,24	0
2	CA	А	93	1/1	0.97	0.04	26,26,26,26	0
2	CA	В	93	1/1	0.97	0.07	29,29,29,29	0
2	CA	А	92	1/1	0.99	0.03	18,18,18,18	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.

