

Full wwPDB X-ray Structure Validation Report (i)

Aug 12, 2024 – 05:51 pm BST

PDB ID	:	9FCX
Title	:	CysG(N-16)-H121N mutant in complex with SAH from Kitasatospora cys-
		targinea
Authors	:	Kuttenlochner, W.; Beller, P.; Kaysser, L.; Groll, M.
Deposited on	:	2024-05-16
Resolution	:	1.80 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:

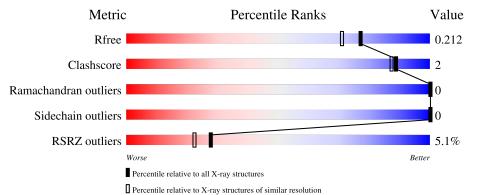
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019) Refmac : 5.8.0158 CCP4 : 7.0.044 (Gargrove) Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996) Validation Pipeline (wwPDB-VP) : 2.37.1	Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins) Ideal geometry (DNA, RNA)	: : : : :	2.37.1 1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
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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 1.80 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}	130704	5950(1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	А	215	97%	•		
1	В	215	96%	•		

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	В	902	-	-	Х	-



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2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 3674 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.

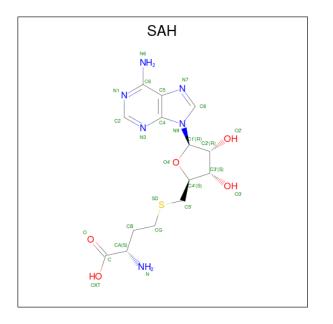
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	214	Total	С	Ν	0	S	0	0	0
1	A	214	1679	1052	301	321	5	0		
1	В	214	Total	С	Ν	0	S	0	0	0
	D	214	1679	1052	301	321	5	0	U	U

• Molecule 1 is a protein called SAM-dependent methyltransferase.

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	15	GLY	-	expression tag	UNP A0A1W6R556
А	16	SER	-	expression tag	UNP A0A1W6R556
А	122	ASN	HIS	engineered mutation	UNP A0A1W6R556
В	15	GLY	-	expression tag	UNP A0A1W6R556
В	16	SER	-	expression tag	UNP A0A1W6R556
В	122	ASN	HIS	engineered mutation	UNP A0A1W6R556

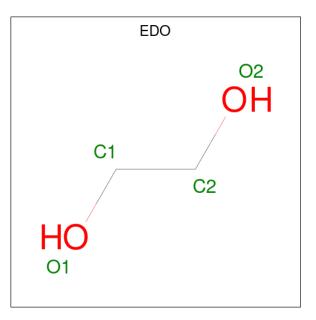
• Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: $C_{14}H_{20}N_6O_5S$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues		Atc	\mathbf{ms}			ZeroOcc	AltConf
2	Δ	1	Total	С	Ν	Ο	\mathbf{S}	0	Ο
		L	26	14	6	5	1	0	0
9	D	1	Total	С	Ν	0	S	0	0
	D	1	26	14	6	5	1	0	U

• Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 4 2 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 4 is water.

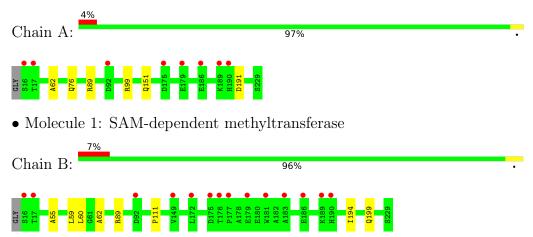
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	101	Total O 101 101	0	0
4	В	107	Total O 107 107	0	0



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: SAM-dependent methyltransferase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 42 21 2	Depositor
Cell constants	99.87Å 99.87Å 98.28Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 - 1.80	Depositor
Resolution (A)	29.72 - 1.80	EDS
% Data completeness	97.3 (30.00-1.80)	Depositor
(in resolution range)	97.4 (29.72-1.80)	EDS
R _{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.94 (at 1.80Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.159 , 0.204	Depositor
Π, Π_{free}	0.170 , 0.212	DCC
R_{free} test set	2270 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	25.5	Xtriage
Anisotropy	0.127	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39 , 42.7	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.000 for -h,-l,-k	Xtriage
Estimated twinning fraction	0.000 for l,-k,h	Atriage
$\mathbf{F}_o, \mathbf{F}_c$ correlation	0.96	EDS
Total number of atoms	3674	wwPDB-VP
Average B, all atoms $(Å^2)$	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 57.37 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.3902e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: SAH, EDO

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		lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.62	0/1712	0.69	0/2324	
1	В	0.63	0/1712	0.70	0/2324	
All	All	0.63	0/3424	0.70	0/4648	

There are no bond length outliers.

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	А	1679	0	1645	3	0
1	В	1679	0	1645	7	0
2	А	26	0	19	0	0
2	В	26	0	19	3	0
3	А	8	0	12	0	0
3	В	48	0	72	8	0
4	А	101	0	0	0	0
4	В	107	0	0	0	0
All	All	3674	0	3412	13	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 2.



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:901:SAH:HA	3:B:902:EDO:H21	1.69	0.75
2:B:901:SAH:CA	3:B:902:EDO:H21	2.19	0.73
1:B:59:LEU:N	3:B:902:EDO:H22	2.20	0.56
1:B:55:ALA:HA	3:B:902:EDO:H12	1.89	0.55
2:B:901:SAH:N	3:B:902:EDO:H21	2.26	0.49
1:B:60:LEU:HB3	3:B:902:EDO:H11	1.96	0.48
1:A:62:ALA:HB2	1:A:89:ARG:HD3	1.98	0.45
1:A:76:GLN:HA	1:A:99:ARG:O	2.16	0.45
1:B:60:LEU:H	3:B:902:EDO:C2	2.29	0.45
1:B:62:ALA:HB2	1:B:89:ARG:HD3	2.00	0.44
1:A:151:GLN:NE2	1:A:191:ASP:OD2	2.43	0.43
1:B:111:PRO:HB3	3:B:912:EDO:H21	2.02	0.42
1:B:194:ILE:HG23	1:B:199:GLN:HG3	2.03	0.41

All (13) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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	212/215~(99%)	209 (99%)	3~(1%)	0	100 100
1	В	212/215~(99%)	209 (99%)	3 (1%)	0	100 100
All	All	424/430~(99%)	418 (99%)	6 (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	Analysed Rotameric Outliers		Percentiles		
1	А	174/174~(100%)	174 (100%)	0	100	100	
1	В	174/174~(100%)	174 (100%)	0	100	100	
All	All	348/348~(100%)	348 (100%)	0	100	100	

There are no protein residues with a non-rotameric sidechain to report.

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

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)

16 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	Type	e Chain	Chain	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
	туре	Unain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2				
3	EDO	В	902	-	3,3,3	0.34	0	2,2,2	0.24	0				
3	EDO	В	907	-	3,3,3	0.05	0	2,2,2	0.12	0				



Mol	Type	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
INIOI	туре	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	EDO	А	902	-	3,3,3	0.06	0	2,2,2	0.12	0
3	EDO	В	906	-	3,3,3	0.03	0	2,2,2	0.12	0
3	EDO	В	908	-	3,3,3	0.07	0	2,2,2	0.12	0
3	EDO	В	905	-	3,3,3	0.09	0	2,2,2	0.29	0
3	EDO	В	910	-	3,3,3	0.08	0	2,2,2	0.22	0
3	EDO	В	911	-	3,3,3	0.05	0	2,2,2	0.20	0
3	EDO	В	912	-	$3,\!3,\!3$	0.09	0	2,2,2	0.21	0
3	EDO	А	903	-	$3,\!3,\!3$	0.06	0	2,2,2	0.21	0
3	EDO	В	913	-	3,3,3	0.05	0	2,2,2	0.16	0
3	EDO	В	904	-	3,3,3	0.05	0	2,2,2	0.13	0
2	SAH	В	901	-	24,28,28	0.66	0	25,40,40	0.93	3 (12%)
2	SAH	А	901	-	24,28,28	0.70	1 (4%)	$25,\!40,\!40$	0.94	3 (12%)
3	EDO	В	909	-	3,3,3	0.07	0	2,2,2	0.21	0
3	EDO	В	903	-	$3,\!3,\!3$	0.07	0	2,2,2	0.14	0

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	EDO	В	902	-	-	1/1/1/1	-
3	EDO	В	907	-	-	0/1/1/1	-
3	EDO	А	902	-	-	0/1/1/1	-
3	EDO	В	906	-	-	0/1/1/1	-
3	EDO	В	908	-	-	0/1/1/1	-
3	EDO	В	905	-	-	0/1/1/1	-
3	EDO	В	910	-	-	1/1/1/1	-
3	EDO	В	911	-	-	0/1/1/1	-
3	EDO	В	912	-	-	1/1/1/1	-
3	EDO	А	903	-	-	0/1/1/1	-
3	EDO	В	913	-	-	1/1/1/1	-
3	EDO	В	904	-	-	0/1/1/1	-
2	SAH	В	901	-	-	0/11/31/31	0/3/3/3
2	SAH	А	901	-	-	0/11/31/31	0/3/3/3
3	EDO	В	909	-	-	1/1/1/1	-
3	EDO	В	903	-	-	1/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	А	901	SAH	OXT-C	-2.14	1.23	1.30



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	901	SAH	OXT-C-O	-2.42	118.58	124.09
2	В	901	SAH	C5-C6-N6	2.33	123.89	120.35
2	В	901	SAH	OXT-C-O	-2.28	118.92	124.09
2	В	901	SAH	OXT-C-CA	2.21	120.92	113.38
2	А	901	SAH	C5-C6-N6	2.20	123.70	120.35
2	А	901	SAH	OXT-C-CA	2.20	120.87	113.38

All (6) bond angle outliers are listed below:

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	909	EDO	O1-C1-C2-O2
3	В	910	EDO	O1-C1-C2-O2
3	В	912	EDO	O1-C1-C2-O2
3	В	902	EDO	O1-C1-C2-O2
3	В	903	EDO	O1-C1-C2-O2
3	В	913	EDO	O1-C1-C2-O2

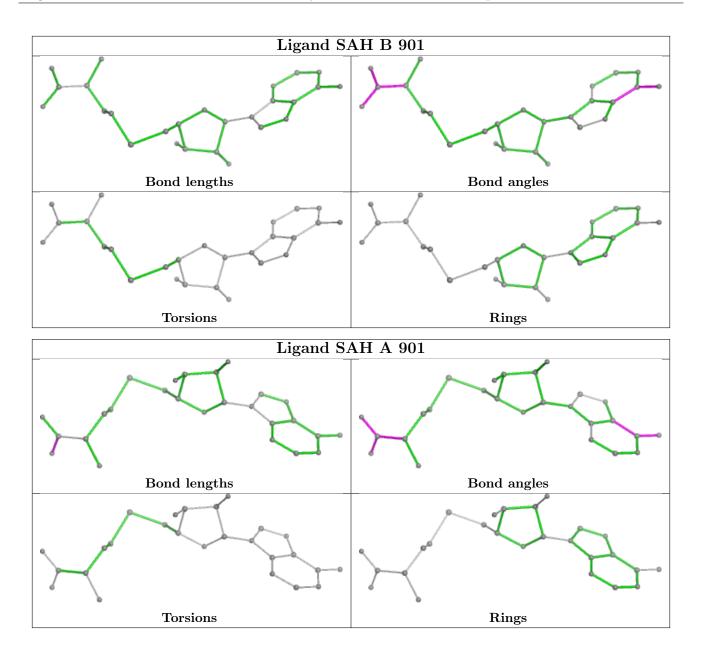
There are no ring outliers.

3 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	902	EDO	7	0
3	В	912	EDO	1	0
2	В	901	SAH	3	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 sufficient 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	214/215~(99%)	0.02	8 (3%) 41 36	18, 26, 44, 55	0
1	В	214/215~(99%)	0.16	14 (6%) 18 15	18, 27, 48, 63	0
All	All	428/430~(99%)	0.09	22 (5%) 28 22	18, 27, 47, 63	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	179	GLU	3.9
1	А	92	ASP	3.9
1	В	92	ASP	3.8
1	А	16	SER	3.7
1	В	186	GLU	3.3
1	В	183	ALA	3.2
1	В	175	ASP	3.2
1	А	179	GLU	3.1
1	В	189	LYS	3.0
1	В	190	HIS	2.9
1	А	17	THR	2.7
1	В	177	PRO	2.6
1	А	190	HIS	2.6
1	В	149	VAL	2.6
1	А	175	ASP	2.4
1	В	172	LEU	2.4
1	В	181	TRP	2.4
1	А	186	GLU	2.4
1	В	17	THR	2.3
1	В	16	SER	2.3
1	А	189	LYS	2.2
1	В	176	THR	2.2



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.

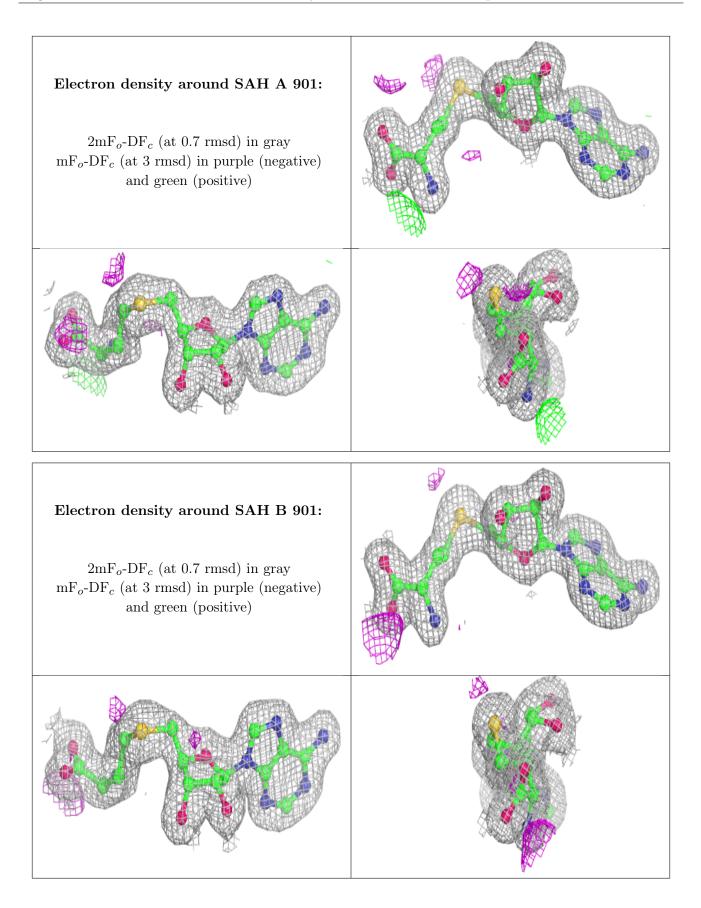
6.4 Ligands (i)

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	EDO	В	913	4/4	0.57	0.23	$55,\!55,\!57,\!58$	0
3	EDO	В	912	4/4	0.72	0.28	46,47,48,48	0
3	EDO	В	902	4/4	0.74	0.31	27,28,28,36	0
3	EDO	В	904	4/4	0.74	0.18	43,44,44,48	0
3	EDO	В	905	4/4	0.76	0.22	45,45,48,50	0
3	EDO	В	911	4/4	0.76	0.26	49,50,51,53	0
3	EDO	В	908	4/4	0.78	0.18	47,48,50,53	0
3	EDO	В	906	4/4	0.83	0.25	42,42,43,48	0
3	EDO	В	909	4/4	0.85	0.26	49,49,51,53	0
3	EDO	А	903	4/4	0.86	0.17	42,43,43,45	0
3	EDO	А	902	4/4	0.87	0.14	40,40,40,41	0
3	EDO	В	910	4/4	0.91	0.45	44,44,45,46	0
3	EDO	В	903	4/4	0.91	0.09	41,42,43,44	0
2	SAH	А	901	26/26	0.96	0.08	20,26,27,27	0
2	SAH	В	901	26/26	0.97	0.08	24,25,26,26	0
3	EDO	В	907	4/4	0.98	0.05	23,24,25,26	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.

