

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

May 14, 2020 – 01:44 am BST

PDB ID : 5LT6

Title : Structure of the Epigenetic Oncogene MMSET and inhibition by N-Alkyl Sine-

fungin Derivatives

Authors: Tisi, D.; Pathuri, P.; Heightman, T.

Deposited on : 2016-09-06

Resolution : 2.05 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: 1.8.5 (274361), CSD as541be (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)

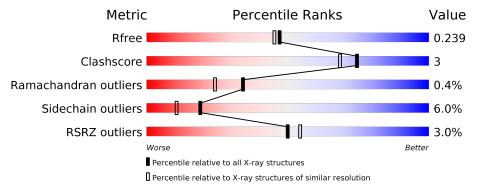
Validation Pipeline (wwPDB-VP) : 2.11

### 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.05 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	1692 (2.04-2.04)
Clashscore	141614	1773 (2.04-2.04)
Ramachandran outliers	138981	1752 (2.04-2.04)
Sidechain outliers	138945	1752 (2.04-2.04)
RSRZ outliers	127900	1672 (2.04-2.04)

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	295	70%	9%	6	21%		
1	В	295	68%	8%		23%		

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
ſ	3	SCN	В	1804	_	_	X	_



### 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4100 atoms, of which 68 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 Histone-lysine N-methyltransferase SETD2.

$\mathbf{Mol}$	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	234	Total 1881	C 1173	N 333	O 353	S 22	0	6	0
1	В	227	Total 1812	C 1130	N 315	O 345	S 22	0	3	0

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1417	MET	-	initiating methionine	UNP Q9BYW2
A	1418	HIS	-	expression tag	UNP Q9BYW2
A	1419	HIS	-	expression tag	UNP Q9BYW2
A	1420	HIS	_	expression tag	UNP Q9BYW2
A	1421	HIS	_	expression tag	UNP Q9BYW2
A	1422	HIS	-	expression tag	UNP Q9BYW2
A	1423	HIS	-	expression tag	UNP Q9BYW2
A	1424	SER	_	expression tag	UNP Q9BYW2
A	1425	SER	_	expression tag	UNP Q9BYW2
A	1426	GLY	-	expression tag	UNP Q9BYW2
A	1427	ARG	_	expression tag	UNP Q9BYW2
A	1428	GLU	_	expression tag	UNP Q9BYW2
A	1429	ASN	_	expression tag	UNP Q9BYW2
A	1430	LEU	_	expression tag	UNP Q9BYW2
A	1431	TYR	-	expression tag	UNP Q9BYW2
A	1432	PHE	-	expression tag	UNP Q9BYW2
В	1417	MET	-	initiating methionine	UNP Q9BYW2
В	1418	HIS	_	expression tag	UNP Q9BYW2
В	1419	HIS	_	expression tag	UNP Q9BYW2
В	1420	HIS	_	expression tag	UNP Q9BYW2
В	1421	HIS	_	expression tag	UNP Q9BYW2
В	1422	HIS	-	expression tag	UNP Q9BYW2
В	1423	HIS	-	expression tag	UNP Q9BYW2
В	1424	SER	-	expression tag	UNP Q9BYW2
В	1425	SER	-	expression tag	UNP Q9BYW2

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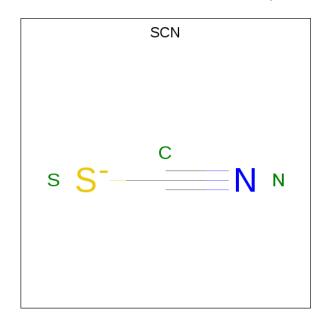
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Chain	Residue	Modelled	Actual	Comment	Reference
В	1426	GLY	-	expression tag	UNP Q9BYW2
В	1427	ARG	-	expression tag	UNP Q9BYW2
В	1428	GLU	1	expression tag	UNP Q9BYW2
В	1429	ASN	-	expression tag	UNP Q9BYW2
В	1430	LEU	-	expression tag	UNP Q9BYW2
В	1431	TYR	-	expression tag	UNP Q9BYW2
В	1432	PHE	=	expression tag	UNP Q9BYW2

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	3	Total Zn 3 3	0	0
2	A	3	Total Zn 3 3	0	0

• Molecule 3 is THIOCYANATE ION (three-letter code: SCN) (formula: CNS).

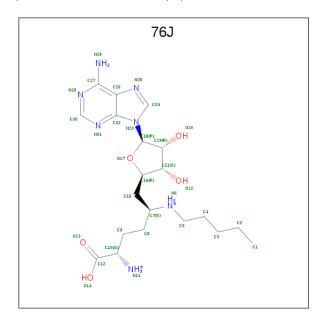


Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf
3	Α	1	Total	С	N	$\mathbf{S}$	0	0
	7.1	1	3	1	1	1	U	O
2	B	1	Total	С	Ν	$\mathbf{S}$	0	0
	Ъ	1	3	1	1	1	U	

• Molecule 4 is [(2 {S},5 {S})-1-[(2 {R},3 {S},4 {R},5 {R})-5-(6-aminopurin-9-yl)-3,4-bis(o xidanyl)oxolan-2-yl]-5-azaniumyl-6-oxidanyl-6-oxidanylidene-hexan-2-yl]-pentyl-azanium



(three-letter code: 76J) (formula:  $\mathrm{C}_{20}\mathrm{H}_{35}\mathrm{N}_{7}\mathrm{O}_{5}).$ 



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
1	Λ	1	Total	С	Н	N	О	9	0	
4	4 A	1	66	20	34	7	5	2	0	
4	D	1	Total	С	Н	N	О	2	0	
4	D	1	66	20	34	7	5			

#### • Molecule 5 is water.

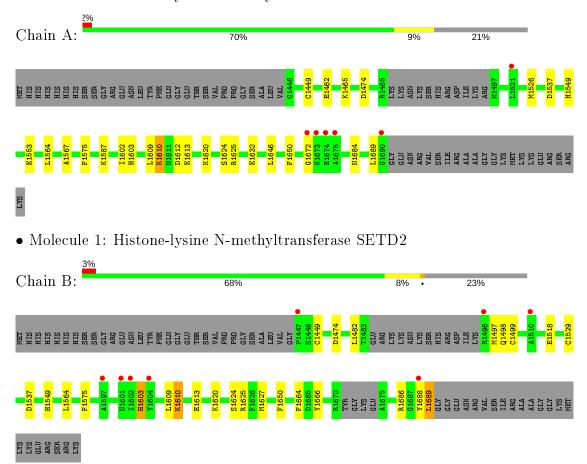
$\mathbf{Mol}$	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
5	A	157	Total O 157 157	0	0
5	В	106	Total O 106 106	0	0



## 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: Histone-lysine N-methyltransferase SETD2





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	$57.36 ext{Å}$ $72.70 ext{Å}$ $61.86 ext{Å}$	Danasitan
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $89.77^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	61.86 - 2.05	Depositor
Resolution (A)	61.86 - 2.05	EDS
% Data completeness	97.8 (61.86-2.05)	Depositor
(in resolution range)	96.7 (61.86-2.05)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.33 (at 2.05Å)	Xtriage
Refinement program	BUSTER 2.11.6	Depositor
D D	0.179 , 0.231	Depositor
$R, R_{free}$	0.192 , $0.239$	DCC
$R_{free}$ test set	1571 reflections $(4.98\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	42.9	Xtriage
Anisotropy	0.232	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.33, 61.7	EDS
L-test for twinning <sup>2</sup>	$< L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.186 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	4100	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.86% 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.



 $<sup>^{1}</sup>$ 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: 76J, ZN, SCN

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		
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z  > 5	
1	A	0.66	0/1933	0.73	0/2602	
1	В	0.59	0/1855	0.71	0/2497	
All	All	0.63	0/3788	0.72	0/5099	

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	$\mathbf{H}(\mathbf{model})$	H(added)	Clashes	Symm-Clashes
1	A	1881	0	1750	10	0
1	В	1812	0	1686	13	0
2	A	3	0	0	0	0
2	В	3	0	0	0	0
3	A	3	0	0	0	0
3	В	3	0	0	2	0
4	A	32	34	0	0	0
4	В	32	34	0	0	0
5	A	157	0	0	2	0
5	В	106	0	0	0	0
All	All	4032	68	3436	23	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 (23) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + a rea 1	A 4 a ma 2	Interatomic	Clash
Atom-1	Atom-2	${f distance} \; ({f \AA})$	overlap (Å)
1:B:1686:ARG:HH21	1:B:1689:LEU:HG	1.64	0.63
1:B:1499:CYS:SG	3:B:1804:SCN:S	2.98	0.60
1:A:1632:GLU:HB2	1:A:1684:ASN:HD21	1.68	0.59
1:A:1474[B]:ASP:HB3	1:A:1620:LYS:HG2	1.91	0.52
1:B:1474[A]:ASP:HB2	1:B:1620:LYS:HG2	1.91	0.51
1:B:1474[B]:ASP:HB3	1:B:1620:LYS:HG2	1.91	0.51
1:A:1610:LYS:HG3	1:A:1613:GLU:HB2	1.91	0.51
1:B:1627:MET:HG2	1:B:1664:PHE:HD2	1.76	0.50
1:A:1474[A]:ASP:HB2	1:A:1620:LYS:HG2	1.92	0.50
1:B:1610:LYS:HG3	1:B:1613:GLU:HB2	1.94	0.49
1:B:1627:MET:HG2	1:B:1664:PHE:CD2	2.48	0.48
1:A:1549[B]:HIS:HD2	1:A:1575:PHE:CE2	2.32	0.47
1:B:1549[B]:HIS:HD2	1:B:1575:PHE:CE2	2.34	0.46
1:A:1526:MET:HE3	5:A:1932:HOH:O	2.15	0.46
1:B:1603:HIS:H	1:B:1603:HIS:CD2	2.34	0.46
1:B:1529:CYS:SG	3:B:1804:SCN:S	3.14	0.46
1:B:1624:SER:HB2	1:B:1650:PHE:CE2	2.51	0.45
1:A:1624:SER:HB2	1:A:1650:PHE:CE2	2.53	0.44
1:A:1610:LYS:HE2	1:A:1646:LEU:HD12	2.00	0.43
1:B:1666:TYR:HB2	1:B:1689:LEU:HD12	2.00	0.42
1:B:1688:TYR:O	1:B:1689:LEU:HB2	2.20	0.42
1:A:1465:LYS:HG2	5:A:2047:HOH:O	2.21	0.41
1:A:1553:GLU:HG3	1:A:1567:ALA:HB2	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	$236/295 \; (80\%)$	230 (98%)	5 (2%)	1 (0%)	34 24
1	В	$224/295 \ (76\%)$	214 (96%)	9 (4%)	1 (0%)	34 24
All	All	460/590 (78%)	444 (96%)	14 (3%)	2 (0%)	34 24

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1672	GLY
1	В	1497	MET

#### 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	198/258 (77%)	185 (93%)	13 (7%)	16 9
1	В	194/258 (75%)	183 (94%)	11 (6%)	20 12
All	All	392/516 (76%)	368 (94%)	24 (6%)	19 10

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1449	CYS
1	A	1462	GLU
1	A	1537	ASP
1	A	1564	LEU
1	A	1587	LYS
1	A	1602	ILE
1	A	1603	HIS
1	A	1609	LEU
1	A	1610	LYS
1	A	1612[A]	ASP
1	A	1612[B]	ASP
1	A	1625	ARG
1	A	1689	LEU
1	В	1449	CYS

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Mol	Chain	Res	Type
1	В	1482	LEU
1	В	1498	GLN
1	В	1518	GLU
1	В	1537	ASP
1	В	1564	LEU
1	В	1603	HIS
1	В	1609	LEU
1	В	1610	LYS
1	В	1625	ARG
1	В	1689	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1619	GLN
1	A	1667	GLN
1	A	1684	ASN
1	В	1603	HIS
1	В	1619	GLN
1	В	1669	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 carbohydrates in this entry.

### 5.6 Ligand geometry (i)

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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	Bo	ond leng	ths	В	ond ang	les
10101	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	SCN	В	1804	-	1,2,2	0.24	0	0,1,1	0.00	-
4	76 J	A	1805	-	27,34,34	0.88	0	23,47,47	0.89	0
3	SCN	A	1804	-	1,2,2	1.13	0	0,1,1	0.00	-
4	76 J	В	1805	-	27,34,34	0.78	0	23,47,47	0.90	1 (4%)

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
4	76 J	В	1805	-	-	5/15/39/39	0/3/3/3
4	76 J	A	1805	-	-	4/15/39/39	0/3/3/3

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
4	В	1805	76 J	C16-C15-C7	2.28	117.74	113.77

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1805	76 J	C15-C7-C8-C9
4	A	1805	76 J	C7-C8-C9-C10
4	В	1805	76 J	C15-C7-C8-C9
4	В	1805	76 J	C3-C4-C5-N6
4	A	1805	76 J	N6-C7-C8-C9
4	A	1805	76 J	C1-C2-C3-C4
4	В	1805	76 J	N6-C7-C8-C9
4	В	1805	76 J	C7-C8-C9-C10
4	В	1805	76 J	C1-C2-C3-C4

There are no ring outliers.

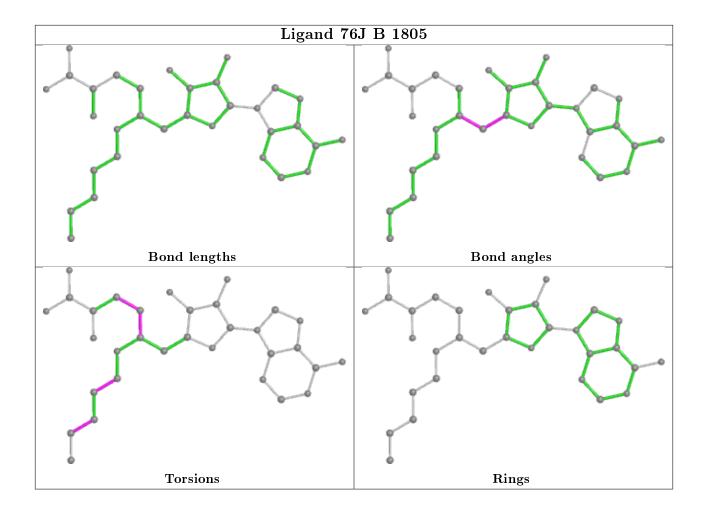


1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	1804	SCN	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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	$234/295 \ (79\%)$	0.00	6 (2%) 56 60	29, 50, 92, 115	0
1	В	227/295~(76%)	0.16	8 (3%) 44 48	37, 61, 98, 111	0
All	All	461/590 (78%)	0.08	14 (3%) 50 54	29, 56, 96, 115	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1674	GLU	4.5
1	A	1672	GLY	4.3
1	A	1690	GLY	4.0
1	В	1597	ALA	4.0
1	В	1601	ASN	3.7
1	В	1447	PRO	3.6
1	В	1510	ALA	3.6
1	В	1604	TYR	3.3
1	A	1521	LEU	3.2
1	A	1675	ALA	3.0
1	В	1602	ILE	2.8
1	A	1673	LYS	2.7
1	В	1688	TYR	2.6
1	В	1496	ARG	2.4

### 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.



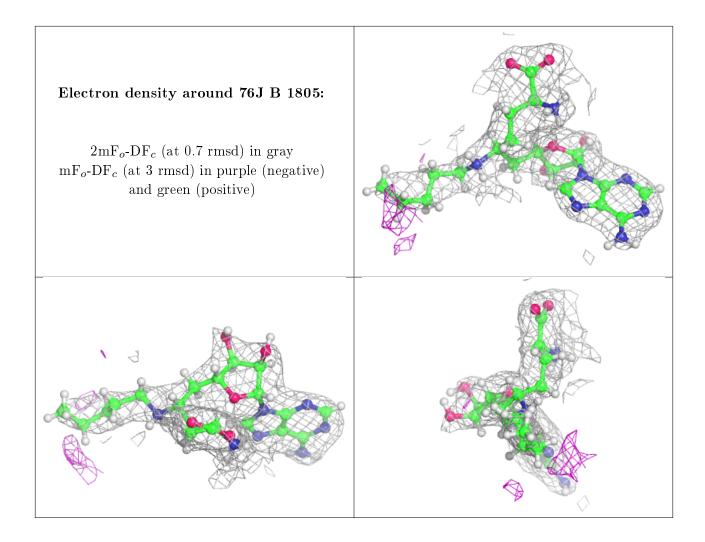
### 6.4 Ligands (i)

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.

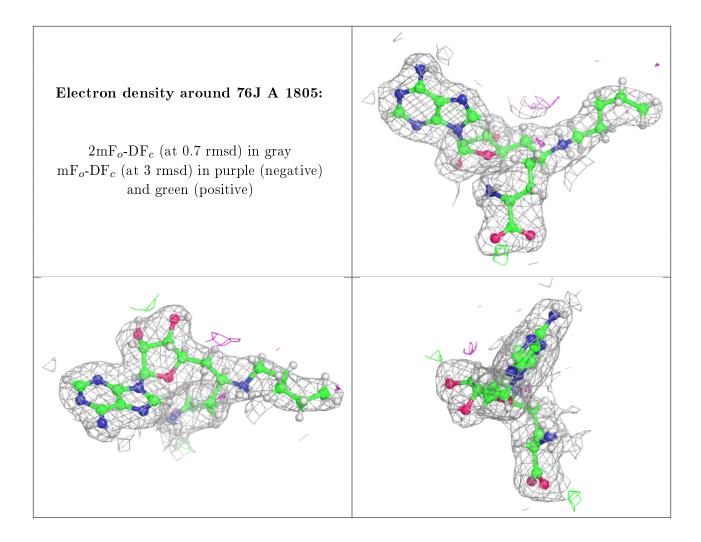
Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
3	SCN	A	1804	3/3	0.93	0.12	67,67,67,75	0
4	76 J	В	1805	32/32	0.94	0.14	33,53,61,62	66
3	SCN	В	1804	3/3	0.96	0.07	65,65,66,67	0
4	76 J	A	1805	32/32	0.96	0.10	31,44,58,61	2
2	ZN	В	1803	1/1	0.99	0.08	65,65,65,65	0
2	ZN	A	1802	1/1	0.99	0.11	52,52,52,52	0
2	ZN	A	1801	1/1	1.00	0.14	42,42,42,42	0
2	ZN	В	1801	1/1	1.00	0.12	51,51,51,51	0
2	ZN	A	1803	1/1	1.00	0.09	51,51,51,51	0
2	ZN	В	1802	1/1	1.00	0.09	54,54,54,54	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.

