

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

Nov 22, 2023 – 03:12 PM JST

PDB ID : 7WJ7

Title : Crystal Structure of the Kinase Domain with Adenosine of a Class III Lan-

thipeptide Synthetase CurKC

Authors: Huang, S.; Wang, H.

Deposited on : 2022-01-05

Resolution : 2.55 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:

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove)

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

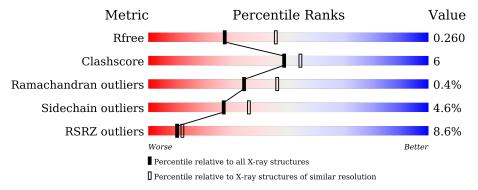
Validation Pipeline (wwPDB-VP) : 2.36

### 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 2.55 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	1284 (2.56-2.52)
Clashscore	141614	1332 (2.56-2.52)
Ramachandran outliers	138981	1315 (2.56-2.52)
Sidechain outliers	138945	1315 (2.56-2.52)
RSRZ outliers	127900	1272 (2.56-2.52)

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	A	274	72%	15%	•	12%
1	В	274	76%	14%		10%



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 3847 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 Serine/threonine protein kinase.

Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	Trace
1	Λ	242	Total	С	N	О	S	0	0	0
1	A	242	1863	1185	344	330	4	0	U	0
1	D	246	Total	С	N	О	S	0	0	0
1	D	240	1906	1211	354	337	4		U	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual Comment		Reference
A	1	GLY	-	expression tag	UNP D1ABX1
A	2	PRO	-	expression tag	UNP D1ABX1
В	1	GLY	-	expression tag	UNP D1ABX1
В	2	PRO	-	expression tag	UNP D1ABX1

• Molecule 2 is 2-(6-AMINO-OCTAHYDRO-PURIN-9-YL)-5-HYDROXYMETHYL-TETR AHYDRO-FURAN-3,4-DIOL (three-letter code: XYA) (formula:  $C_{10}H_{13}N_5O_4$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total				0	0
			19		5			
2	B	1	Total	С	N	Ο	0	0
2	D	1	19	10	5	4	0	0

### $\bullet\,$ Molecule 3 is water.

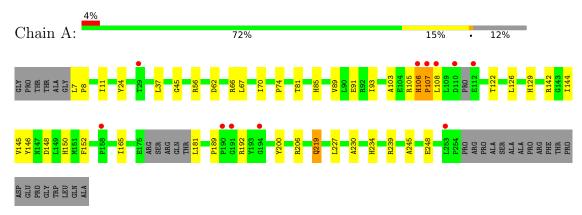
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	26	Total O 26 26	0	0
3	В	14	Total O 14 14	0	0



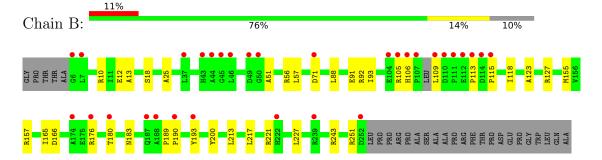
# 3 Residue-property plots (i)

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: Serine/threonine protein kinase



• Molecule 1: Serine/threonine protein kinase





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants	96.23Å 96.23Å 115.48Å	Domositon
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $120.00^{\circ}$	Depositor
Resolution (Å)	19.82 - 2.55	Depositor
Resolution (A)	19.82 - 2.55	EDS
% Data completeness	100.0 (19.82-2.55)	Depositor
(in resolution range)	100.0 (19.82-2.55)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	4.41 (at 2.56Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
D D	0.208 , 0.260	Depositor
$R, R_{free}$	0.208 , $0.260$	DCC
$R_{free}$ test set	1995 reflections (9.69%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	51.4	Xtriage
Anisotropy	0.040	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36, 50.1	EDS
L-test for twinning <sup>2</sup>	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	3847	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.86% 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>&</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: XYA

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	0.27	0/1904	0.55	0/2590	
1	В	0.29	0/1951	0.58	0/2654	
All	All	0.28	0/3855	0.56	0/5244	

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	A	1863	0	1837	27	0
1	В	1906	0	1879	22	0
2	A	19	0	12	2	0
2	В	19	0	13	1	0
3	A	26	0	0	2	0
3	В	14	0	0	0	0
All	All	3847	0	3741	45	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 6.

All (45) close contacts within the same asymmetric unit are listed below, sorted by their clash



magnitude.

A	<b>A</b>	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:B:71:ASP:OD1	1:B:157:ARG:NH2	2.23	0.70
1:B:127:ARG:HH11	1:B:127:ARG:HG3	1.58	0.68
1:A:165:ILE:HD11	2:A:301:XYA:C6	2.23	0.68
1:A:105:ARG:NH1	3:A:401:HOH:O	2.29	0.66
1:B:25:ALA:HB1	1:B:92:ARG:HH12	1.63	0.62
1:B:51:ALA:O	1:B:56:ARG:NH1	2.32	0.62
1:A:206:ARG:HD2	1:A:245:ALA:HB2	1.85	0.58
1:A:165:ILE:HD11	2:A:301:XYA:C5	2.33	0.58
1:A:67:LEU:HD21	1:A:144:ILE:HG12	1.87	0.57
1:A:192:ARG:NH1	1:A:248:GLU:OE2	2.37	0.56
1:A:129:HIS:ND1	3:A:402:HOH:O	2.33	0.55
1:A:219:GLN:HG2	1:A:227:LEU:HD21	1.88	0.55
1:B:123:ALA:O	1:B:127:ARG:HG2	2.07	0.55
1:A:145:VAL:HG22	1:A:146:TYR:O	2.07	0.55
1:A:230:ALA:O	1:A:234:HIS:HD2	1.92	0.53
1:B:190:PRO:HD3	1:B:221:ARG:HH12	1.74	0.51
1:B:57:LEU:HD21	1:B:88:LEU:HB2	1.93	0.50
1:B:155:MET:HG2	1:B:165:ILE:HG23	1.94	0.49
1:B:189:PRO:HG3	1:B:200:TYR:CG	2.48	0.48
1:A:45:GLY:O	1:A:56:ARG:NH2	2.46	0.48
1:A:189:PRO:HD3	1:A:200:TYR:CE2	2.49	0.48
1:B:10:ARG:HG2	1:B:12:GLU:HG2	1.96	0.47
1:A:70:ILE:HD11	1:A:142:ARG:HG3	1.96	0.46
1:A:24:TYR:CZ	1:B:217:LEU:HD21	2.51	0.46
1:A:7:LEU:HB2	1:A:8:PRO:HD3	1.96	0.46
1:B:189:PRO:HG3	1:B:200:TYR:CD1	2.52	0.45
1:B:189:PRO:HA	1:B:190:PRO:HD3	1.85	0.45
1:A:107:PRO:HD2	1:A:108:LEU:HD22	2.00	0.44
1:A:165:ILE:HA	1:A:165:ILE:HD12	1.66	0.44
1:B:93:ILE:HD12	2:B:301:XYA:N1	2.33	0.44
1:A:11:ILE:HG13	1:B:217:LEU:HD12	2.00	0.44
1:A:150:HIS:CE1	1:A:152:PHE:HB2	2.53	0.43
1:B:113:PRO:HG2	1:B:118:ILE:HD11	1.99	0.43
1:A:11:ILE:HG22	1:B:213:LEU:HD13	2.01	0.43
1:B:165:ILE:HG13	1:B:166:ASP:H	1.83	0.43
1:A:74:PRO:HB3	1:A:93:ILE:HD11	2.01	0.42
1:A:37:LEU:HD13	1:A:89:VAL:HG22	2.02	0.42
1:A:62:ASP:O	1:A:66:ARG:HG3	2.20	0.42
1:B:115:PRO:HA	1:B:118:ILE:HB	2.01	0.41
1:A:189:PRO:HG2	1:A:192:ARG:HG3	2.02	0.41
1:B:127:ARG:HG3	1:B:127:ARG:NH1	2.26	0.41



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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
		distance (A)	overiap (A)
1:A:103:ALA:HB2	1:B:13:ALA:HA	2.02	0.40
1:A:122:THR:O	1:A:126:LEU:HG	2.20	0.40
1:A:81:THR:HA	1:A:85:HIS:O	2.20	0.40
1:B:227:LEU:HD23	1:B:227:LEU:HA	1.95	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	Perce	entiles
1	A	236/274~(86%)	229 (97%)	5 (2%)	2 (1%)	19	27
1	В	242/274 (88%)	235 (97%)	7 (3%)	0	100	100
All	All	478/548 (87%)	464 (97%)	12 (2%)	2 (0%)	34	46

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	107	PRO
1	A	106	HIS

#### 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.



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v	_	1 0			
Mol Chai	n	Analysed	Rotameric	Outliers	Percentiles

Mol	Chain	Analysed	Rotameric Outliers		Percentiles		
1	A	181/212 (85%)	175 (97%)	6 (3%)	38	51	
1	В	186/212 (88%)	175 (94%)	11 (6%)	19	25	
All	All	367/424 (87%)	350 (95%)	17 (5%)	27	36	

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	91	GLU
1	A	106	HIS
1	A	148	ASP
1	A	181	LEU
1	A	219	GLN
1	A	239	ARG
1	В	18	SER
1	В	91	GLU
1	В	105	ARG
1	В	106	HIS
1	В	109	LEU
1	В	176	ARG
1	В	180	THR
1	В	183	ASN
1	В	193	TYR
1	В	243	ARG
1	В	251	ARG

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

Mol	Chain	Res	Type
1	A	106	HIS
1	A	234	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 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	Trme	Chain	Dag	Link	Bo	ond leng	ths	В	ond ang	cles
IVIOI	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	XYA	A	301	-	18,21,21	3.92	8 (44%)	18,31,31	1.74	5 (27%)
2	XYA	В	301	-	18,21,21	3.95	8 (44%)	18,31,31	1.56	4 (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
2	XYA	A	301	-	-	2/2/22/22	0/3/3/3
2	XYA	В	301	-	-	0/2/22/22	0/3/3/3

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type		$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
2	В	301	XYA	C3'-C2'	-10.62	1.24	1.53
2	A	301	XYA	C3'-C2'	-10.45	1.24	1.53
2	В	301	XYA	O4'-C1'	7.36	1.51	1.41
2	A	301	XYA	O4'-C4'	-7.17	1.29	1.45
2	A	301	XYA	O4'-C1'	7.12	1.51	1.41
2	В	301	XYA	O4'-C4'	-7.00	1.29	1.45



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COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$Ideal(\AA)$
2	A	301	XYA	C3'-C4'	4.72	1.65	1.53
2	В	301	XYA	C3'-C4'	4.62	1.64	1.53
2	A	301	XYA	O2'-C2'	3.99	1.52	1.43
2	В	301	XYA	O2'-C2'	3.98	1.52	1.43
2	В	301	XYA	C6-N6	3.23	1.45	1.34
2	A	301	XYA	C6-N6	3.22	1.45	1.34
2	В	301	XYA	O3'-C3'	2.64	1.49	1.43
2	A	301	XYA	O3'-C3'	2.64	1.49	1.43
2	В	301	XYA	C2'-C1'	2.62	1.57	1.53
2	A	301	XYA	C2'-C1'	2.54	1.57	1.53

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$Ideal(^{o})$
2	В	301	XYA	N3-C2-N1	-3.86	122.65	128.68
2	A	301	XYA	N3-C2-N1	-3.73	122.85	128.68
2	A	301	XYA	C3'-C2'-C1'	3.41	106.11	100.98
2	A	301	XYA	C2'-C3'-C4'	3.02	108.51	102.64
2	В	301	XYA	O4'-C1'-C2'	-2.89	102.70	106.93
2	В	301	XYA	C5'-C4'-C3'	-2.52	109.01	115.09
2	A	301	XYA	C4-C5-N7	-2.51	106.79	109.40
2	В	301	XYA	C4-C5-N7	-2.47	106.83	109.40
2	A	301	XYA	C5'-C4'-C3'	-2.38	109.34	115.09

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	XYA	O4'-C4'-C5'-O5'
2	A	301	XYA	C3'-C4'-C5'-O5'

There are no ring outliers.

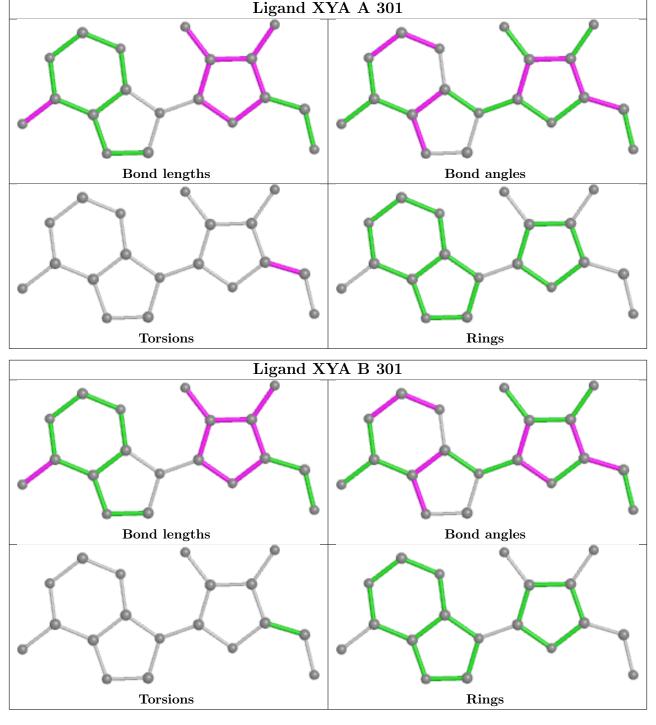
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	XYA	2	0
2	В	301	XYA	1	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	242/274 (88%)	0.13	11 (4%) 33 40	37, 49, 77, 94	0
1	В	246/274~(89%)	0.57	31 (12%) 3 4	34, 56, 92, 121	0
All	All	488/548 (89%)	0.35	42 (8%) 10 12	34, 52, 88, 121	0

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	111	PRO	5.0
1	В	110	ASP	4.9
1	В	109	LEU	4.6
1	A	190	PRO	4.5
1	В	44	ALA	4.1
1	В	104	GLU	4.1
1	В	188	ALA	3.9
1	В	113	PRO	3.9
1	A	191	GLY	3.8
1	В	112	GLU	3.6
1	В	46	LEU	3.5
1	В	71	ASP	3.5
1	В	106	HIS	3.5
1	В	49	ASP	3.4
1	A	194	GLY	3.4
1	В	190	PRO	3.4
1	В	239	ARG	3.3
1	В	105	ARG	3.3
1	В	107	PRO	3.2
1	В	6	GLY	3.0
1	В	193	TYR	2.9
1	A	106	HIS	2.9
1	В	174	ALA	2.9
1	В	180	THR	2.9



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Mol	Chain	Res	Type	RSRZ
1	A	112	GLU	2.8
1	В	176	ARG	2.8
1	В	115	PRO	2.7
1	A	107	PRO	2.6
1	A	253	LEU	2.5
1	В	187	GLN	2.5
1	В	43	HIS	2.5
1	A	110	ASP	2.5
1	В	45	GLY	2.5
1	В	252	ASP	2.3
1	В	222	HIS	2.3
1	В	50	GLY	2.1
1	В	114	ASP	2.1
1	A	158	PRO	2.1
1	A	108	LEU	2.1
1	A	29	THR	2.0
1	В	37	LEU	2.0
1	В	7	LEU	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)

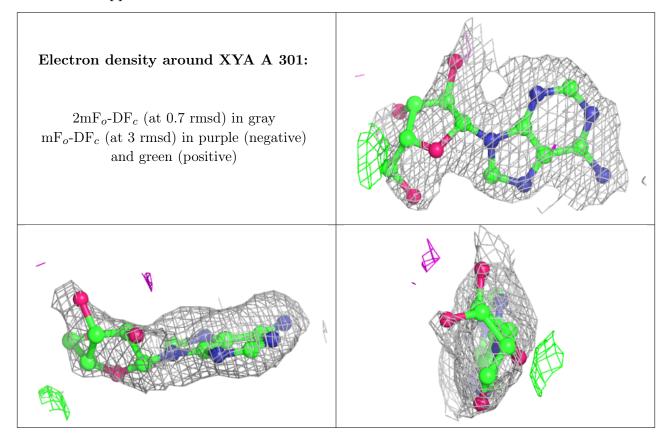
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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	XYA	A	301	19/19	0.71	0.28	54,82,102,106	0
2	XYA	В	301	19/19	0.83	0.21	56,74,94,99	0

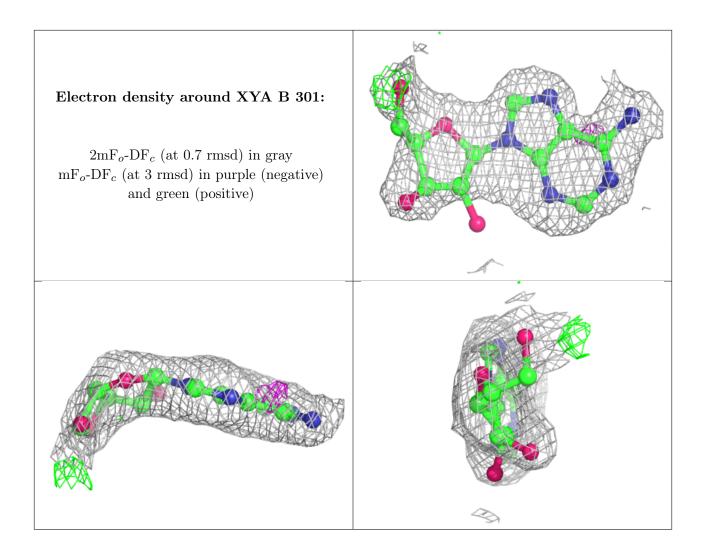
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers



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.

