

Full wwPDB X-ray Structure Validation Report (i)

Feb 19, 2024 - 04:17 AM EST

PDB ID	:	4IQ6
Title	:	Gsk-3beta with inhibitor 6-chloro-N-cyclohexyl-4-(1H-pyrrolo[2,3-b]pyridin-3-
		yl)pyridin-2-amine
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		Penning, T.D.
Deposited on	:	2013-01-10
Resolution	:	3.12 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:

$M_{a} = 1.8 \pm (974261)$ (CCD as $\pm 41h_{a}$ (2020)	
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	1)
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) : 2.36	

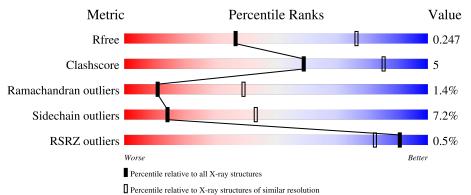


1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.12 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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	1292(3.14-3.10)
Clashscore	141614	1389 (3.14-3.10)
Ramachandran outliers	138981	1337 (3.14-3.10)
Sidechain outliers	138945	1337 (3.14-3.10)
RSRZ outliers	127900	1260 (3.14-3.10)

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	L		
1	А	426	64%	11%	•	24%
1	В	426	64%	13%	•	22%



2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 5164 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		At	oms			ZeroOcc	AltConf	Trace
1	Δ	324	Total	С	Ν	Ο	\mathbf{S}	0	0	0
		324	2522	1625	426	460	11	0	0	0
1	р	332	Total	С	Ν	0	S	0	0	0
	D	332	2596	1672	440	473	11	0	0	0

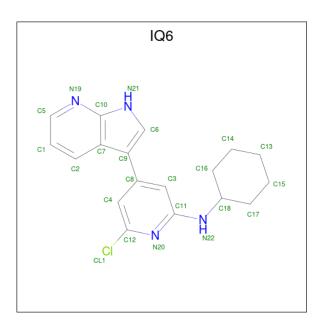
• Molecule 1 is a protein called Glycogen synthase kinase-3 beta.

Chain	Residue	Modelled	Actual	Comment	Reference
А	-5	GLY	-	expression tag	UNP P49841
А	-4	ALA	-	expression tag	UNP P49841
А	-3	MET	-	expression tag	UNP P49841
А	-2	GLY	-	expression tag	UNP P49841
А	-1	SER	-	expression tag	UNP P49841
A	0	HIS	-	expression tag	UNP P49841
В	-5	GLY	-	expression tag	UNP P49841
В	-4	ALA	-	expression tag	UNP P49841
В	-3	MET	-	expression tag	UNP P49841
В	-2	GLY	-	expression tag	UNP P49841
В	-1	SER	-	expression tag	UNP P49841
В	0	HIS	_	expression tag	UNP P49841

There are 12 discrepancies between the modelled and reference sequences:

• Molecule 2 is 6-chloro-N-cyclohexyl-4-(1H-pyrrolo[2,3-b]pyridin-3-yl)pyridin-2-amine (three-letter code: IQ6) (formula: $C_{18}H_{19}ClN_4$).





Mol	Chain	Residues	A	Aton	ns		ZeroOcc	AltConf
2	Δ	1	Total	С	Cl	Ν	0	0
2		1	23	18	1	4	0	0
2	В	1	Total	С	Cl	Ν	0	0
2	D	T	23	18	1	4	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.

- Chain A:
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- Molecule 1: Glycogen synthase kinase-3 beta



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	82.83Å 84.99Å 178.06Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	89.03 - 3.12	Depositor
Itesolution (A)	89.03 - 3.12	EDS
% Data completeness	$99.9 \ (89.03 - 3.12)$	Depositor
(in resolution range)	$100.0 \ (89.03-3.12)$	EDS
R _{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.63 (at 3.13 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.11.2	Depositor
D D.	0.186 , 0.227	Depositor
R, R_{free}	0.201 , 0.247	DCC
R_{free} test set	1183 reflections (5.13%)	wwPDB-VP
Wilson B-factor $(Å^2)$	58.7	Xtriage
Anisotropy	0.821	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 69.3	EDS
L-test for $twinning^2$	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	0.031 for k,h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	5164	wwPDB-VP
Average B, all atoms $(Å^2)$	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.09% of the height of the origin peak. No significant pseudotranslation is detected.

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: $\mathrm{IQ6}$

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	
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.52	0/2583	0.73	0/3521
1	В	0.52	0/2660	0.73	0/3621
All	All	0.52	0/5243	0.73	0/7142

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	2522	0	2498	22	0
1	В	2596	0	2544	21	0
2	А	23	0	19	4	0
2	В	23	0	19	2	0
All	All	5164	0	5080	48	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 5.

All (48) 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:B:337:HIS:HD2	1:B:339:PHE:H	1.33	0.77
1:A:266:LEU:O	1:A:270:ILE:HG12	1.94	0.66
1:B:266:LEU:O	1:B:270:ILE:HG12	1.95	0.66
1:A:215:SER:O	1:A:223:ARG:NH2	2.34	0.61
1:A:283:GLU:HG3	1:A:324:THR:HG23	1.83	0.60
1:B:215:SER:O	1:B:223:ARG:NH2	2.34	0.59
1:A:332:LEU:HD11	1:A:367:LEU:HA	1.88	0.56
1:A:162:MET:HG3	1:A:247:LEU:HD13	1.89	0.54
1:B:332:LEU:HD11	1:B:367:LEU:HA	1.89	0.53
2:A:501:IQ6:H3	2:A:501:IQ6:H13	1.92	0.52
2:A:501:IQ6:H13	2:A:501:IQ6:H2	1.91	0.52
1:B:257:PHE:HE1	1:B:272:VAL:HG13	1.75	0.51
1:A:96:ARG:CZ	1:A:205:LYS:HG3	2.41	0.50
1:A:106:HIS:HB3	1:A:109:ILE:HD12	1.93	0.50
2:A:501:IQ6:H3	2:A:501:IQ6:H2	1.93	0.50
1:B:162:MET:HG3	1:B:247:LEU:HD13	1.93	0.50
1:A:257:PHE:HE1	1:A:272:VAL:HG13	1.76	0.50
1:B:193:THR:OG1	1:B:195:VAL:HG13	2.11	0.49
1:B:273:LEU:HB3	1:B:323:TYR:CE2	2.48	0.49
1:B:96:ARG:CZ	1:B:205:LYS:HG3	2.42	0.49
1:A:273:LEU:HB3	1:A:323:TYR:CE2	2.47	0.48
1:A:144:ARG:HG2	1:A:148:ARG:HE	1.79	0.48
1:A:319:ARG:HB3	1:A:329:LEU:HD13	1.95	0.48
1:A:258:PRO:HD2	1:A:268:GLU:HG3	1.96	0.47
1:A:193:THR:OG1	1:A:195:VAL:HG13	2.14	0.47
1:A:139:VAL:CG2	1:A:189:LEU:HD23	2.45	0.47
1:B:258:PRO:HD2	1:B:268:GLU:HG3	1.97	0.47
2:B:501:IQ6:H3	2:B:501:IQ6:H2	1.98	0.46
1:B:319:ARG:HB3	1:B:329:LEU:HD13	1.97	0.45
1:B:305:PHE:CD2	1:B:314:ILE:HG12	2.52	0.45
1:B:271:LYS:O	1:B:299:HIS:HB2	2.17	0.44
2:B:501:IQ6:H3	2:B:501:IQ6:H17	1.38	0.43
1:B:88:LEU:HD12	1:B:127:TYR:CE1	2.54	0.43
1:B:278:ARG:HH12	1:B:282:ARG:HD2	1.82	0.43
1:A:266:LEU:HD12	1:A:266:LEU:HA	1.88	0.43
1:A:284:MET:HE3	1:A:323:TYR:HB3	2.00	0.43
2:A:501:IQ6:H3	2:A:501:IQ6:C2	2.48	0.43
1:B:180:ARG:HD3	1:B:203:SER:O	2.19	0.42
1:A:66:SER:HB2	1:B:267:VAL:HG11	2.01	0.41
1:A:305:PHE:CD1	1:A:314:ILE:HG12	2.55	0.41
1:B:224:ALA:HA	1:B:241:TRP:CD1	2.56	0.41
1:B:217:ILE:H	1:B:217:ILE:HG13	1.70	0.41

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4IQ6

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:TYR:CD1	1:A:258:PRO:HA	2.56	0.41
1:A:224:ALA:HA	1:A:241:TRP:CD1	2.55	0.41
1:A:139:VAL:HG23	1:A:189:LEU:HD23	2.03	0.41
1:B:266:LEU:HD12	1:B:266:LEU:HA	1.88	0.41
1:A:284:MET:HE1	1:A:323:TYR:HD1	1.87	0.40
1:B:337:HIS:CD2	1:B:339:PHE:H	2.24	0.40

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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	Percentil	es
1	А	318/426~(75%)	290 (91%)	22~(7%)	6(2%)	8 32	
1	В	326/426~(76%)	301 (92%)	22~(7%)	3~(1%)	17 51	
All	All	644/852~(76%)	591 (92%)	44 (7%)	9~(1%)	11 39	

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	49	ASP
1	В	49	ASP
1	А	221	TYR
1	В	221	TYR
1	А	301	TRP
1	А	174	SER
1	А	361	ASN
1	А	381	HIS
1	В	174	SER



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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	273/367~(74%)	256~(94%)	17~(6%)	18 48
1	В	280/367~(76%)	257~(92%)	23~(8%)	11 38
All	All	553/734~(75%)	513~(93%)	40 (7%)	14 43

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	57	THR
1	А	59	THR
1	А	69	VAL
1	A A A	72	GLN
1	А	77	ASP
1	А	110	VAL
1	А	148	ARG
1	А	151	GLN
1	A A	169	LEU
1	А	213	ASN
1	А	266	LEU
1	A A A A	272	VAL
1	А	275	THR
1	А	279	GLU
1	А	324	THR
1	А	326	THR
1	А	355	ASP
1	В	57	THR
1	В	59	THR
1	В	72	GLN
1	В	77	ASP
1	В	110	VAL
1	В	119	SER
1	В	148	ARG
1	В	151	GLN
1	В	152	THR
1	В	169	LEU

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Mol	Chain	Res	Type
1	В	189	LEU
1	В	213	ASN
1	В	218	CYS
1	В	266	LEU
1	В	272	VAL
1	В	275	THR
1	В	278	ARG
1	В	279	GLU
1	В	297	LYS
1	В	324	THR
1	В	326	THR
1	В	348	VAL
1	В	355	ASP

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Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	72	GLN
1	В	72	GLN
1	В	145	HIS
1	В	337	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).

Mal	Mol Type Chain Res	ype Chain Res Link		Bo	ond leng	\mathbf{ths}	Bond angles			
IVIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	IQ6	А	501	-	$25,\!26,\!26$	1.12	3 (12%)	27,36,36	1.54	5 (18%)
2	IQ6	В	501	-	25,26,26	0.99	2 (8%)	27,36,36	1.79	5 (18%)

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	IQ6	А	501	-	-	4/8/16/16	0/4/4/4
2	IQ6	В	501	-	-	4/8/16/16	0/4/4/4

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	501	IQ6	C9-C8	-2.98	1.44	1.49
2	А	501	IQ6	C11-N22	2.40	1.42	1.37
2	В	501	IQ6	C9-C8	-2.40	1.45	1.49
2	В	501	IQ6	C10-N19	-2.39	1.33	1.37
2	А	501	IQ6	C10-N19	-2.04	1.34	1.37

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	501	IQ6	C5-N19-C10	-4.67	110.84	116.60
2	А	501	IQ6	C5-N19-C10	-3.98	111.69	116.60
2	В	501	IQ6	C1-C2-C7	-3.92	115.46	120.89
2	В	501	IQ6	C16-C18-N22	3.26	115.68	110.60
2	А	501	IQ6	C1-C2-C7	-3.21	116.44	120.89
2	А	501	IQ6	C8-C3-C11	2.75	122.45	118.97
2	А	501	IQ6	C3-C11-N22	-2.56	116.53	122.07
2	В	501	IQ6	C4-C12-CL1	-2.53	115.72	118.88
2	В	501	IQ6	C17-C18-N22	2.45	114.41	110.60

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	501	IQ6	C4-C8-C9	2.21	124.31	120.70

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	501	IQ6	C3-C8-C9-C7
2	А	501	IQ6	C4-C8-C9-C7
2	А	501	IQ6	C3-C11-N22-C18
2	А	501	IQ6	N20-C11-N22-C18
2	В	501	IQ6	C3-C8-C9-C6
2	В	501	IQ6	C3-C8-C9-C7
2	В	501	IQ6	C4-C8-C9-C6
2	В	501	IQ6	C4-C8-C9-C7

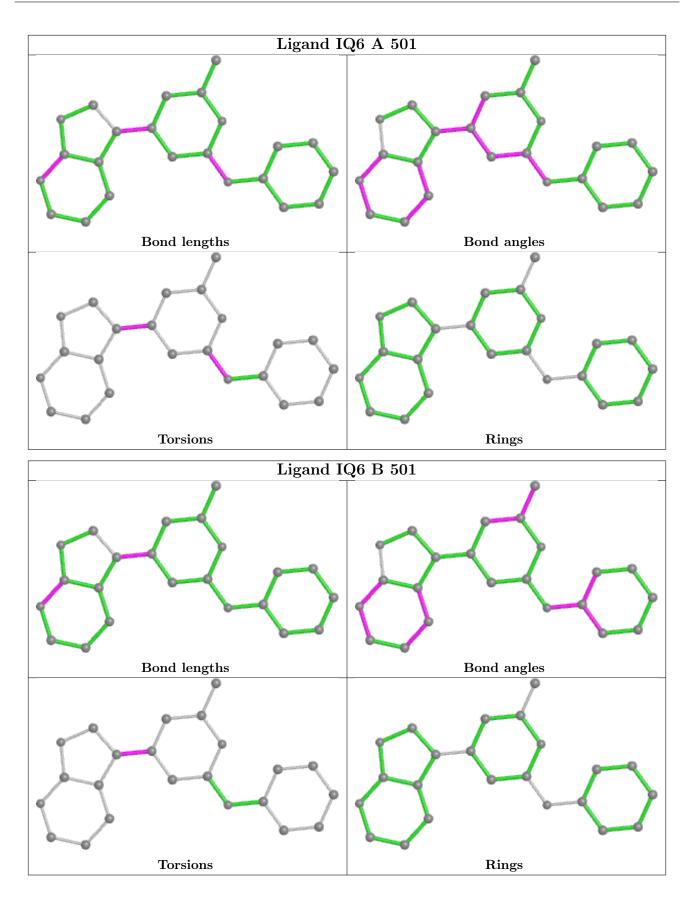
There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	501	IQ6	4	0
2	В	501	IQ6	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	$\langle RSRZ \rangle$	#RSRZ>2		$OWAB(Å^2)$	Q<0.9	
1	А	324/426~(76%)	0.09	2 (0%)	89	79	36, 55, 92, 103	0
1	В	332/426~(77%)	0.08	1 (0%)	94	89	32, 51, 93, 111	0
All	All	656/852~(76%)	0.09	3(0%)	91	82	32, 53, 93, 111	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	65	GLY	2.9
1	А	66	SER	2.3
1	В	66	SER	2.3

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.

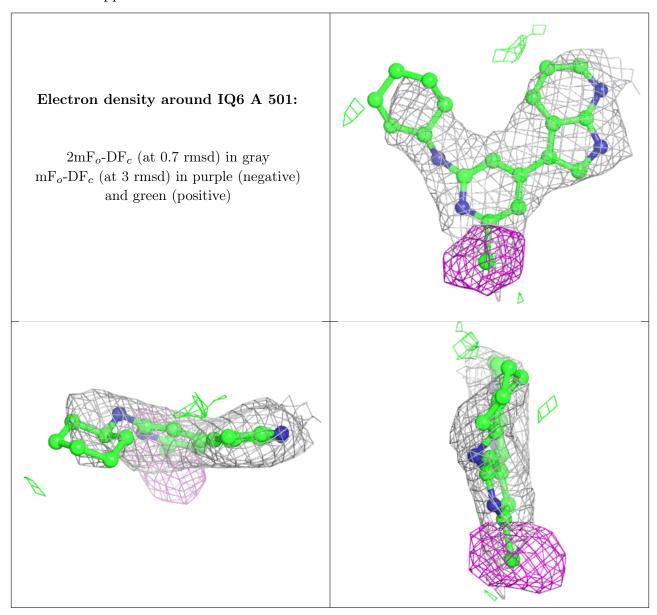
6.4 Ligands (i)

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.

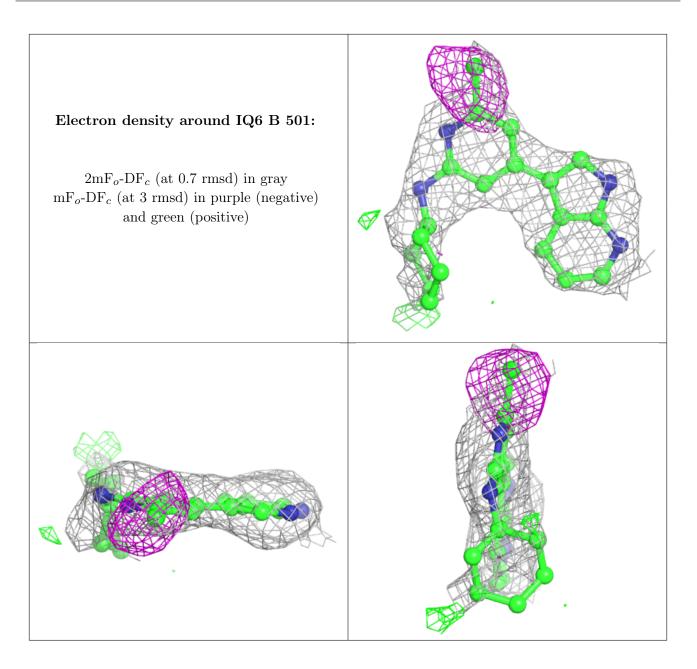
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
2	IQ6	А	501	23/23	0.87	0.42	73,79,96,97	0
2	IQ6	В	501	23/23	0.87	0.48	$69,\!82,\!87,\!88$	0



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.

