

Full wwPDB X-ray Structure Validation Report (i)

Jul 4, 2022 – 04:18 pm BST

PDB ID : 7ZJQ

Title: Human TEAD3 in complex with 1-Cyclopentyl-1H-pyrazolo[3,4-b]pyridine-5-

carboxylic acid

Authors : Musil, D.; Sousa, C.M.

Deposited on : 2022-04-11

Resolution : 2.10 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 : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.29

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0267$

CCP4 : 7.1.010 (Gargrove)

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

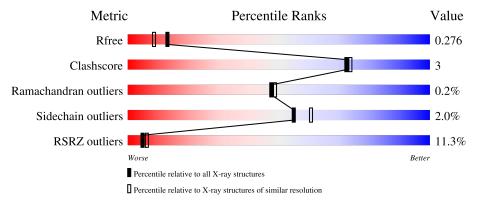
Validation Pipeline (wwPDB-VP) : 2.29

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 2.10 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(\mathring{A}))$
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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		
1	A	220	9%	9%	5%
2	В	220	13% 83%	11%	5%
2	С	220	5% 86%	8%	5%
2	D	220	81%	13%	5%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6986 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.

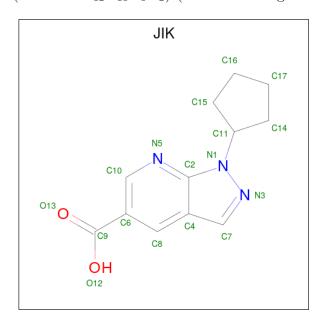
• Molecule 1 is a protein called Transcriptional enhancer factor TEF-5.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	210	Total	С	N	О	S	26	9	0
1	11	210	1719	1105	287	319	8	20	2	U

• Molecule 2 is a protein called Transcriptional enhancer factor TEF-5.

Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	Trace
2	D	209	Total	С	N	О	S	22	9	0
	Б	209	1711	1101	288	314	8	22	2	
2	C	208	Total	С	N	О	S	18	2	0
		200	1707	1098	288	313	8	10	2	
9	D	208	Total	С	N	О	S	25	1	0
2	D	200	1697	1092	285	312	8	29	1	

• Molecule 3 is 1-cyclopentylpyrazolo[3,4-b]pyridine-5-carboxylic acid (three-letter code: JIK) (formula: C₁₂H₁₃N₃O₂) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total			O	0	0
		-	17	12	3	2	Ů	Ü
3	B	1	Total	С	Ν	Ο	0	0
0	D	1	17	12	3	2	U	U
3	С	1	Total	С	N	О	0	0
3	C	1	17	12	3	2	U	U
3	D	1	Total	С	N	О	0	0
3	D	1	17	12	3	2	U	0

• Molecule 4 is water.

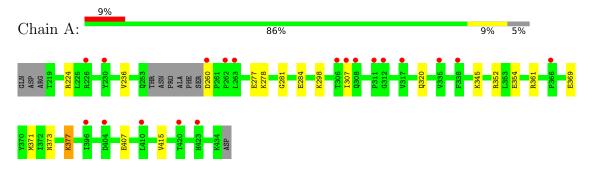
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	19	Total O 19 19	0	0
4	В	17	Total O 17 17	0	0
4	С	29	Total O 29 29	0	0
4	D	19	Total O 19 19	0	0



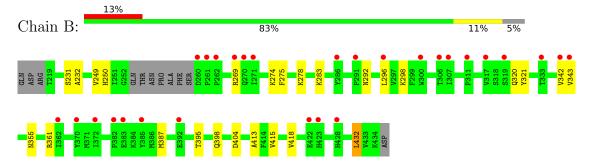
3 Residue-property plots (i)

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.

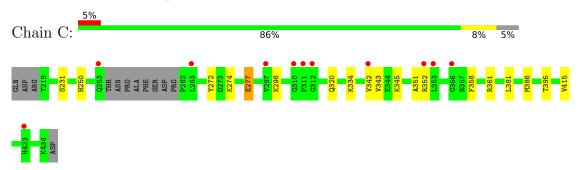
• Molecule 1: Transcriptional enhancer factor TEF-5



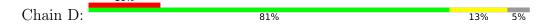
• Molecule 2: Transcriptional enhancer factor TEF-5



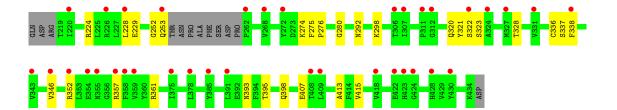
• Molecule 2: Transcriptional enhancer factor TEF-5



• Molecule 2: Transcriptional enhancer factor TEF-5









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	65.47Å 121.66Å 154.33Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.77 - 2.10	Depositor
Resolution (A)	47.77 - 2.10	EDS
% Data completeness	98.3 (47.77-2.10)	Depositor
(in resolution range)	98.3 (47.77-2.10)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.99 (at 2.10Å)	Xtriage
Refinement program	BUSTER 2.11.8 (3-FEB-2022)	Depositor
D D	0.257 , 0.279	Depositor
R, R_{free}	0.253 , 0.276	DCC
R_{free} test set	3597 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	58.0	Xtriage
Anisotropy	0.452	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6986	wwPDB-VP
Average B, all atoms $(Å^2)$	92.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.27% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: JIK, CSX

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	Moi Chain		RMSZ # Z > 5		# Z > 5
1	A	0.40	0/1756	0.59	0/2369
2	В	0.37	0/1756	0.58	0/2370
2	С	0.39	0/1749	0.59	0/2359
2	D	0.38	0/1738	0.59	0/2344
All	All	0.38	0/6999	0.59	0/9442

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)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	A	1719	0	1694	12	0
2	В	1711	0	1694	13	0
2	С	1707	0	1685	8	0
2	D	1697	0	1679	16	0
3	A	17	0	0	1	0
3	В	17	0	0	0	0
3	С	17	0	0	0	0
3	D	17	0	0	0	0
4	A	19	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	В	17	0	0	0	0
4	С	29	0	0	0	0
4	D	19	0	0	1	0
All	All	6986	0	6752	46	0

The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 3.

All (46) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}(\mathring{\rm A})$	overlap (Å)
1:A:373:ASN:HB3	1:A:377:LYS:NZ	1.77	0.98
2:B:296:LEU:HB2	2:B:432:LEU:HD11	1.63	0.80
1:A:373:ASN:HB3	1:A:377:LYS:HZ1	1.45	0.78
1:A:373:ASN:HB3	1:A:377:LYS:HZ2	1.48	0.78
2:C:342:VAL:HG12	2:C:343:VAL:HG23	1.72	0.69
2:B:342:VAL:HG12	2:B:343:VAL:HG23	1.76	0.65
2:D:228:LEU:HD11	2:D:322:SER:HB3	1.79	0.65
1:A:236:VAL:HG12	1:A:307:ILE:HD12	1.82	0.61
2:B:355:ASN:ND2	2:D:328:THR:OG1	2.28	0.61
2:B:387:MET:HB2	2:B:418:VAL:HG21	1.83	0.60
1:A:298:LYS:HD3	1:A:415:VAL:HG23	1.87	0.57
2:C:351:ALA:HB1	2:C:358:PHE:HB3	1.86	0.56
2:D:252:GLY:O	2:D:253:GLN:HB2	2.05	0.55
2:D:322:SER:CB	2:D:357:ARG:HE	2.20	0.55
2:C:298:LYS:HD3	2:C:415:VAL:HG23	1.89	0.54
2:D:298:LYS:HD3	2:D:415:VAL:HG23	1.89	0.53
1:A:354:GLU:OE1	1:A:361:ARG:NH2	2.42	0.53
2:B:296:LEU:CB	2:B:432:LEU:HD11	2.36	0.53
2:C:381:LEU:HD22	2:C:386:MET:HE2	1.92	0.50
2:B:298:LYS:HD3	2:B:415:VAL:HG23	1.93	0.50
2:D:320:GLN:HG2	2:D:361:ARG:HG2	1.94	0.50
1:A:320:GLN:HG2	1:A:361:ARG:HG2	1.93	0.49
2:C:320:GLN:HG2	2:C:361:ARG:HG2	1.92	0.49
2:B:320:GLN:HG2	2:B:361:ARG:HG2	1.94	0.49
2:D:321:TYR:OH	2:D:398:GLN:NE2	2.46	0.48
2:D:322:SER:HB2	2:D:357:ARG:HE	1.78	0.47
2:C:272:TYR:O	2:C:277:GLU:OE2	2.33	0.47
2:D:229:GLU:HG2	4:D:603:HOH:O	2.14	0.47
2:B:231:SER:HB3	2:B:250[B]:HIS:HD2	1.80	0.45
2:C:231:SER:HB3	2:C:250[B]:HIS:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic	Clash
		$\operatorname{distance}\left(\mathrm{\AA}\right)$	overlap (Å)
1:A:345:LYS:HG3	2:D:346:VAL:HB	1.98	0.45
2:D:224:ARG:NH2	2:D:407:GLU:OE2	2.49	0.45
2:B:274:LYS:HB3	2:B:395:THR:HG21	2.00	0.43
1:A:224:ARG:NH2	1:A:407:GLU:OE2	2.49	0.43
2:B:269:ARG:HH22	2:B:283:LYS:HE3	1.83	0.43
1:A:371:MET:HE2	3:A:501:JIK:N5	2.33	0.43
2:D:276:PRO:HD3	2:D:336:CYS:SG	2.59	0.42
2:B:275:PHE:CZ	2:B:413:ALA:HB1	2.55	0.42
2:B:321:TYR:OH	2:B:398:GLN:NE2	2.53	0.42
1:A:369:GLU:HG3	2:D:280:GLY:HA3	2.01	0.42
2:C:274:LYS:HB3	2:C:395:THR:HG21	2.00	0.42
1:A:277:GLU:O	1:A:281:GLY:HA3	2.21	0.41
2:B:232:ALA:HB3	2:B:249:VAL:HG22	2.03	0.41
2:D:275:PHE:CZ	2:D:413:ALA:HB1	2.56	0.40
2:D:274:LYS:HB3	2:D:395:THR:HG21	2.03	0.40
2:D:337:SER:HA	2:D:393:ASN:O	2.21	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	$207/220 \ (94\%)$	204 (99%)	2 (1%)	1 (0%)	29	26
2	В	$207/220 \ (94\%)$	203 (98%)	3 (1%)	1 (0%)	29	26
2	C	$206/220 \ (94\%)$	203 (98%)	3 (2%)	0	100	100
2	D	205/220~(93%)	198 (97%)	7 (3%)	0	100	100
All	All	825/880 (94%)	808 (98%)	15 (2%)	2 (0%)	47	49

All (2) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	A	278	LYS
2	В	278	LYS

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	191/198 (96%)	187 (98%)	4 (2%)	53 59		
2	В	191/199 (96%)	188 (98%)	3 (2%)	62 69		
2	С	190/199 (96%)	186 (98%)	4 (2%)	53 59		
2	D	189/199 (95%)	185 (98%)	4 (2%)	53 59		
All	All	761/795 (96%)	746 (98%)	15 (2%)	55 60		

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	260	ASP
1	A	284	GLU
1	A	352	ARG
1	A	377	LYS
2	В	292	ASN
2	В	404	ASP
2	В	432	LEU
2	С	277	GLU
2	С	334	LYS
2	С	345	LYS
2	С	352	ARG
2	D	292	ASN
2	D	323	SER
2	D	338	PHE
2	D	352	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:



Mol	Chain	Res	Type
1	A	237	GLN
1	A	398	GLN
1	A	428	HIS
2	В	237	GLN
2	В	355	ASN
2	В	398	GLN
2	В	428	HIS
2	С	398	GLN
2	D	292	ASN
2	D	398	GLN
2	D	428	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)

1 non-standard protein/DNA/RNA residue is 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	Chain	Res	Link	В	ond leng	gths	В	ond ang	gles
IVIOI	туре	type Chain Res		Lilik	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
1	CSX	A	336	1	3,6,7	0.86	0	1,6,8	0.40	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.

\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CSX	A	336	1	-	0/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.



There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

4 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	Iol Type Chain Res L		Link	Bo	Bond lengths			Bond angles		
MIOI	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	JIK	D	501	-	17,19,19	1.53	3 (17%)	19,27,27	1.77	6 (31%)
3	JIK	A	501	-	17,19,19	1.56	4 (23%)	19,27,27	1.67	4 (21%)
3	JIK	В	501	-	17,19,19	1.61	3 (17%)	19,27,27	1.97	6 (31%)
3	JIK	С	501	-	17,19,19	1.69	3 (17%)	19,27,27	2.30	8 (42%)

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	JIK	D	501	-	-	0/4/15/15	0/3/3/3
3	JIK	A	501	-	-	0/4/15/15	0/3/3/3
3	JIK	В	501	-	-	0/4/15/15	0/3/3/3
3	JIK	С	501	-	-	0/4/15/15	0/3/3/3

All (13) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\mathring{A}})$	$Ideal(\AA)$
3	С	501	JIK	O13-C9	4.24	1.35	1.22
3	В	501	JIK	O13-C9	4.09	1.34	1.22
3	A	501	JIK	O13-C9	3.99	1.34	1.22
3	D	501	JIK	O13-C9	3.87	1.34	1.22
3	В	501	JIK	O12-C9	-2.86	1.21	1.30
3	С	501	JIK	O12-C9	-2.70	1.22	1.30
3	С	501	JIK	C7-C4	2.66	1.46	1.40
3	D	501	JIK	O12-C9	-2.64	1.22	1.30
3	A	501	JIK	O12-C9	-2.62	1.22	1.30
3	В	501	JIK	C7-C4	2.55	1.46	1.40
3	A	501	JIK	C7-C4	2.52	1.46	1.40
3	D	501	JIK	C7-C4	2.42	1.46	1.40
3	A	501	JIK	C2-N5	-2.19	1.32	1.35

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
3	С	501	JIK	C14-C11-N1	5.45	120.28	113.35
3	В	501	JIK	C6-C10-N5	-4.89	121.31	125.19
3	С	501	JIK	C6-C10-N5	-4.26	121.81	125.19
3	D	501	JIK	C6-C10-N5	-3.84	122.14	125.19
3	A	501	JIK	C6-C10-N5	-3.70	122.26	125.19
3	С	501	JIK	C10-N5-C2	3.60	121.33	116.73
3	В	501	JIK	C10-N5-C2	3.42	121.10	116.73
3	A	501	JIK	C10-N5-C2	3.30	120.95	116.73
3	В	501	JIK	C14-C11-N1	-2.93	109.61	113.35
3	D	501	JIK	C10-N5-C2	2.86	120.38	116.73
3	В	501	JIK	C8-C6-C10	2.80	119.66	116.87
3	С	501	JIK	C16-C15-C11	-2.77	98.20	104.32
3	D	501	JIK	C8-C6-C10	2.74	119.60	116.87
3	D	501	JIK	C6-C8-C4	-2.43	117.49	121.24
3	A	501	JIK	C6-C8-C4	-2.41	117.51	121.24
3	В	501	JIK	C6-C8-C4	-2.26	117.75	121.24
3	D	501	JIK	C16-C15-C11	-2.20	99.45	104.32
3	С	501	JIK	O12-C9-C6	2.19	120.54	114.85
3	С	501	JIK	C6-C8-C4	-2.19	117.85	121.24
3	D	501	JIK	O12-C9-C6	2.19	120.53	114.85
3	С	501	JIK	C15-C11-N1	2.17	116.11	113.35
3	A	501	JIK	C8-C6-C10	2.17	119.03	116.87
3	В	501	JIK	O12-C9-O13	-2.13	118.61	123.35
3	С	501	JIK	C8-C6-C10	2.11	118.97	116.87

There are no chirality outliers.



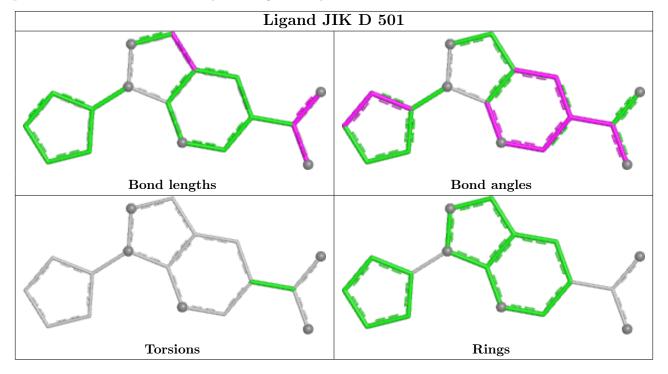
There are no torsion outliers.

There are no ring outliers.

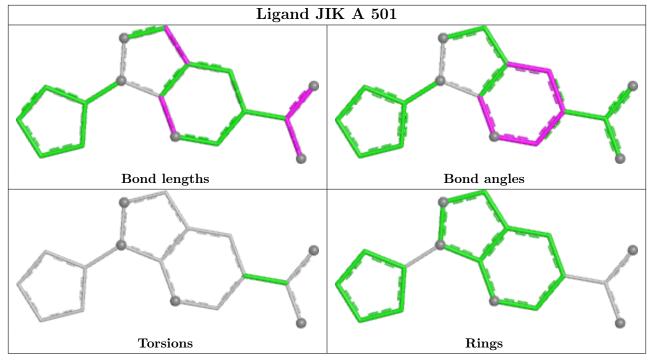
1 monomer is involved in 1 short contact:

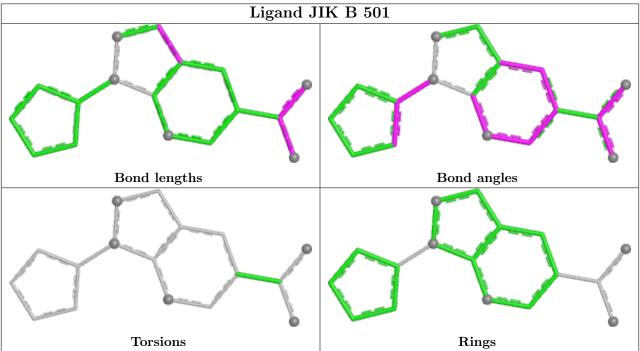
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	501	JIK	1	0

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.

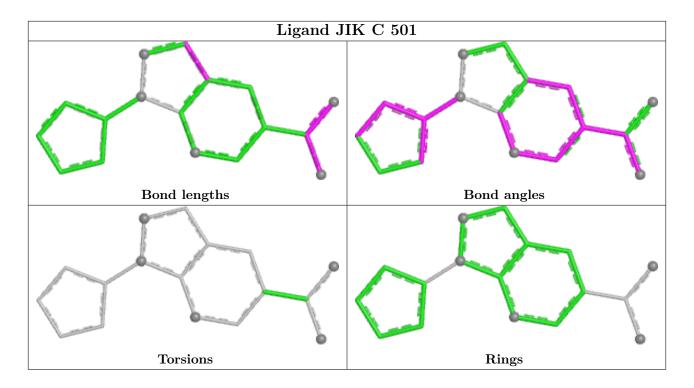












5.7 Other polymers (i)

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></rsrz>	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	A	209/220 (95%)	0.90	19 (9%) 9 12	57, 82, 118, 139	8 (3%)
2	В	209/220~(95%)	1.08	28 (13%) 3 4	66, 91, 129, 144	7 (3%)
2	С	208/220 (94%)	0.83	11 (5%) 26 32	61, 85, 111, 120	5 (2%)
2	D	208/220 (94%)	1.22	36 (17%) 1 1	54, 98, 152, 171	7 (3%)
All	All	834/880 (94%)	1.01	94 (11%) 5 6	54, 88, 129, 171	27 (3%)

All (94) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	311	PRO	7.3
1	A	307	ILE	7.3
2	С	311	PRO	6.7
1	A	311	PRO	6.4
2	D	311	PRO	6.3
2	D	307	ILE	6.0
2	D	324	ALA	5.3
1	A	306	THR	5.3
2	В	422	GLU	4.6
2	D	358	PHE	4.5
2	D	312	GLY	4.4
2	С	263	LEU	4.4
2	С	353	LEU	4.2
2	D	338	PHE	4.1
2	D	272	TYR	4.1
2	С	423	HIS	4.0
2	D	354	GLU	3.9
2	В	385	TYR	3.8
2	В	306	THR	3.7
2	D	306	THR	3.6
2	С	310	GLY	3.5

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1 A 420 THR 3.5 2 B 300 TRP 3.5 2 B 286 TYR 3.5 2 D 359 VAL 3.5 2 D 262 PRO 3.4 2 D 262 PRO 3.4 2 D 357 ARG 3.4 2 D 357 ARG 3.4 2 D 220 ILE 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1	Continued from previous page								
2 B 300 TRP 3.5 2 D 359 VAL 3.5 2 D 262 PRO 3.4 2 D 262 PRO 3.4 2 B 307 ILE 3.4 2 D 357 ARG 3.4 2 D 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 422 GLU 3.0 2 D 422 GLU 3.0	Mol	Chain	Res	Type	RSRZ				
2 B 286 TYR 3.5 2 D 359 VAL 3.5 2 D 262 PRO 3.4 2 B 307 ILE 3.4 2 D 357 ARG 3.4 2 D 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 422 GLU 3.0 2 D 422 GLU 3.0									
2 D 359 VAL 3.5 2 D 262 PRO 3.4 2 B 307 ILE 3.4 2 D 357 ARG 3.4 2 C 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 342 VAL 3.0 2 D 422 GLN 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0									
2 D 262 PRO 3.4 2 B 307 ILE 3.4 2 D 357 ARG 3.4 2 C 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 422 GLN 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0									
2 B 307 ILE 3.4 2 C 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.0 2 D 342 VAL 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 B 291 PRO 2.9 2 B 269 ARG 2.9									
2 D 357 ARG 3.4 2 C 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 D 385 TYR 3.1 2 D 382 PRO 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 B 269 ARG 2.9									
2 C 312 GLY 3.3 1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9									
1 A 423 HIS 3.3 2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 361 PRO 2.7		D							
2 D 220 ILE 3.3 2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 391 LEU 2.8 2 D 361 PRO 2.7									
2 D 423 HIS 3.2 1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 391 LEU 2.8 2 D 361 PRO 2.7									
1 A 317 VAL 3.1 2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 361 PRO 2.7 1 A 410 LEU 2.7									
2 D 385 TYR 3.1 2 B 270 GLN 3.0 2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 361 PRO 2.7 1 A 410 LEU 2.7									
2 B 270 GLN 3.0 2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 299 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 361 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 366 PRO 2.6 2 B 3									
2 C 342 VAL 3.0 2 D 422 GLU 3.0 2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 253 GLN 2.7 1 A 410 LEU 2.7 1 A 440 LEU 2.7 2 D 346 VAL 2.6									
2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 D 253 GLN 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.6 2 D 346 VAL 2.6 2 D 268 VAL 2.6 2 D 2									
2 B 382 PRO 3.0 2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 D 253 GLN 2.7 1 A 410 LEU 2.7 1 A 440 LEU 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 2									
2 D 424 GLY 2.9 2 B 291 PRO 2.9 2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 391 LEU 2.8 2 D 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 B 3									
2 B 291 PRO 2.9 2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 2 B 428 HIS 2.6 1 A 263 LEU 2.5 2 D 3									
2 D 228 LEU 2.9 2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 3		D	424		2.9				
2 B 269 ARG 2.9 2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 3		В	291	PRO					
2 B 343 VAL 2.9 2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 3			228	LEU					
2 D 253 GLN 2.8 2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 3			269	ARG					
2 D 391 LEU 2.8 2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4		В	343	VAL	2.9				
2 C 253 GLN 2.7 2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 263 LEU 2.5 2 D 355 ASN 2.5 2 D 355 ASN 2.5 2 D 352 ARG 2.4		D	253	GLN	2.8				
2 B 261 PRO 2.7 1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 D 268 VAL 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4			391	LEU	2.8				
1 A 410 LEU 2.7 2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	С	253	GLN	2.7				
2 B 362 ILE 2.7 1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	В	261	PRO	l				
1 A 335 VAL 2.7 2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	1	A	410	LEU	2.7				
2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	В	362	ILE	2.7				
2 D 346 VAL 2.6 1 A 366 PRO 2.6 2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	1	A	335	VAL	2.7				
2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	D	346	VAL					
2 B 333 THR 2.6 2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	1	A	366	PRO	2.6				
2 C 356 GLY 2.6 2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2		333		2.6				
2 D 268 VAL 2.6 2 B 372 ILE 2.6 1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	С	356		2.6				
1 A 263 LEU 2.6 2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	D	268						
2 B 428 HIS 2.6 1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	В	372	ILE	2.6				
1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	1	A	263	LEU	2.6				
1 A 262 PRO 2.5 2 D 355 ASN 2.5 2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	В	428	HIS	2.6				
2 D 418 VAL 2.4 2 D 352 ARG 2.4	1	A	262	PRO	2.5				
2 D 418 VAL 2.4 2 D 352 ARG 2.4	2	D	355	ASN	2.5				
2 D 352 ARG 2.4	2	D	418	VAL					
	2	D	352	ARG					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	D	430	TYR	2.4				

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Mol	Chain	Res	Type	RSRZ
1	A	396	ILE	2.3
2	С	297	VAL	2.3
2	В	423	HIS	2.3
2	D	428	HIS	2.3
2	D	327	MET	2.3
1	A	308	GLN	2.3
2	D	322	SER	2.3
2	В	317	VAL	2.3
2	D	343	VAL	2.3
2	В	260	ASP	2.3
2	D	375	ILE	2.2
2	D	408	THR	2.2
2	D	226	ARG	2.2
1	A	404	ASP	2.2
2	D	409	LEU	2.2
2	В	319	SER	2.2
1	A	226	ARG	2.2
2	В	262	PRO	2.1
2	В	392	GLU	2.1
2	В	271	ILE	2.1
2	В	342	VAL	2.1
2	В	383	GLU	2.1
2	С	352	ARG	2.1
1	A	230	TYR	2.1
2	В	296	LEU	2.0
2	D	331	VAL	2.0
1	A	338	PHE	2.0
2	В	370	TYR	2.0
2	D	378	LEU	2.0
1	A	260	ASP	2.0
1	A	312	GLY	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	CSX	A	336	7/8	0.92	0.17	65,66,68,68	0



6.3 Carbohydrates (i)

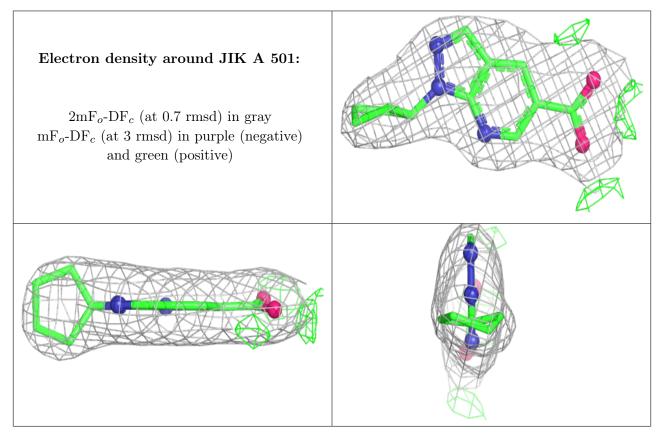
There are no monosaccharides in this entry.

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
3	JIK	A	501	17/17	0.93	0.21	73,74,76,76	0
3	JIK	D	501	17/17	0.93	0.18	74,76,78,78	0
3	JIK	С	501	17/17	0.94	0.19	75,77,78,78	0
3	JIK	В	501	17/17	0.94	0.19	78,79,80,80	0

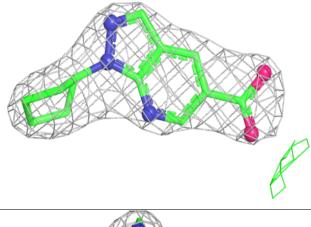
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

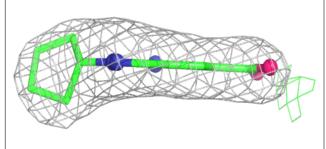


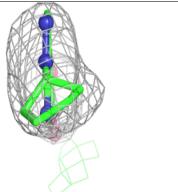


Electron density around JIK D 501: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around JIK C 501:

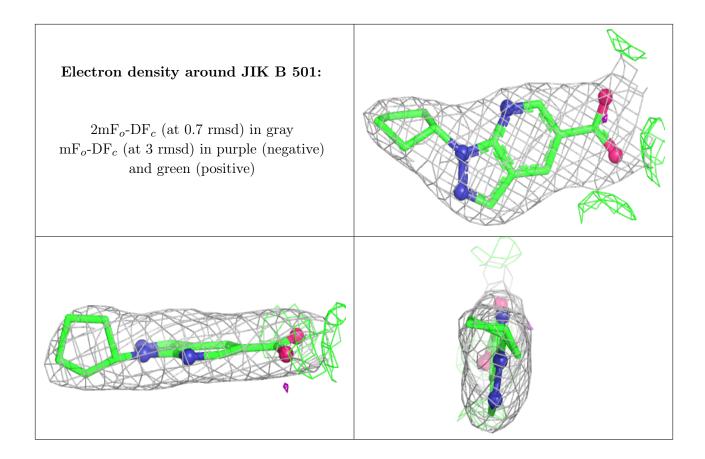
 $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)











6.5 Other polymers (i)

There are no such residues in this entry.

