



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 5O2B / pdb_00005o2b
Title : Crystal structure of WNK3 kinase domain in a diphosphorylated state and in a complex with the inhibitor PP-121
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Deposited on : 2017-05-19
Resolution : 2.04 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 ⓘ 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

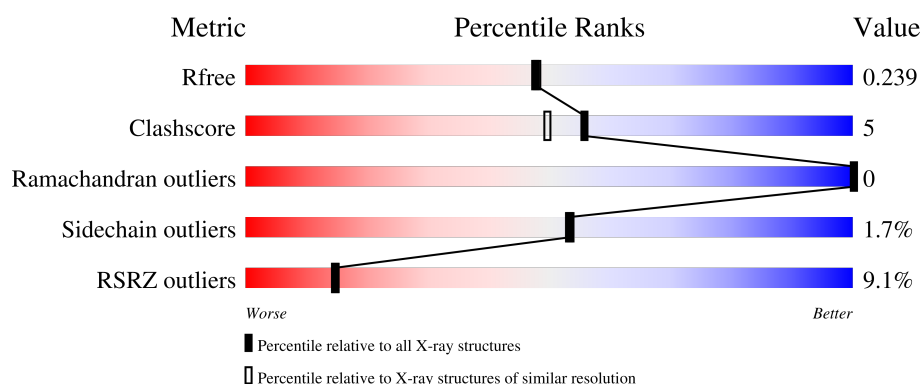
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.04 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2260 (2.04-2.04)
Clashscore	190562	2333 (2.04-2.04)
Ramachandran outliers	187476	2318 (2.04-2.04)
Sidechain outliers	187428	2318 (2.04-2.04)
RSRZ outliers	180081	2260 (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 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 $\leq 5\%$. 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	285	5% 86% 8% 6%
1	B	285	12% 78% 13% 10%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4330 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.

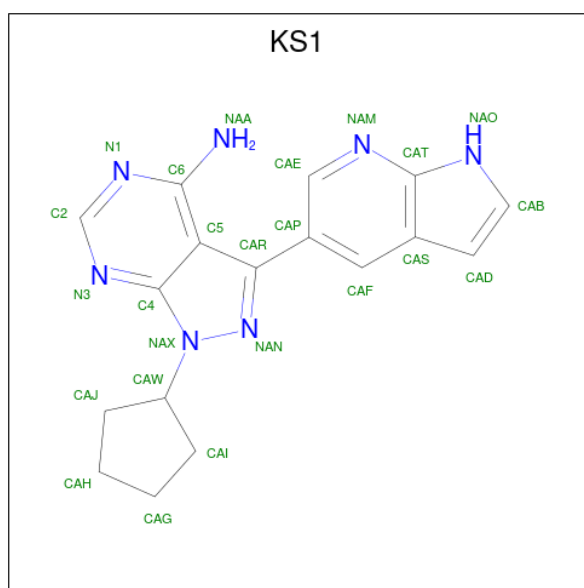
- Molecule 1 is a protein called Serine/threonine-protein kinase WNK3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	269	Total	C	N	O	S	0	1	0
			2057	1313	341	385	18			
1	B	257	Total	C	N	O	S	0	1	0
			1972	1271	325	358	18			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	130	SER	-	expression tag	UNP Q9BYP7
A	131	MET	-	expression tag	UNP Q9BYP7
B	130	SER	-	expression tag	UNP Q9BYP7
B	131	MET	-	expression tag	UNP Q9BYP7

- Molecule 2 is 1-cyclopentyl-3-(1H-pyrrolo[2,3-b]pyridin-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine (CCD ID: KS1) (formula: C₁₇H₁₇N₇).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	N	0	0
			24	17	7		
2	B	1	Total	C	N	0	0
			24	17	7		

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Na	0	0
			1	1		

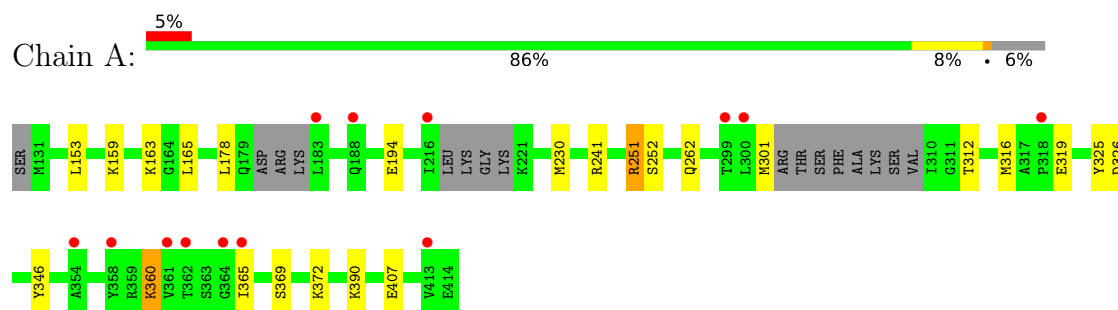
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	149	Total	O	0	0
			149	149		
4	B	103	Total	O	0	0
			103	103		

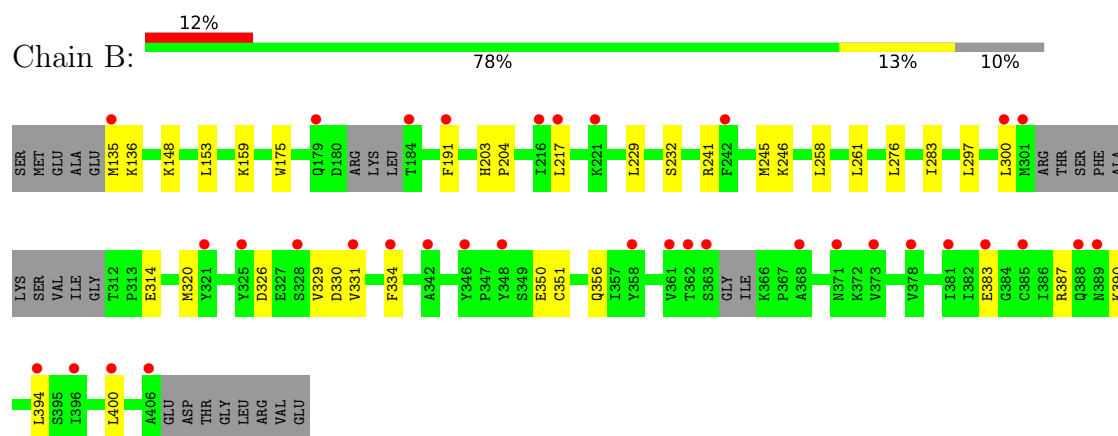
3 Residue-property plots [i](#)

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 WNK3



- Molecule 1: Serine/threonine-protein kinase WNK3



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.16Å 71.25Å 67.80Å 90.00° 103.88° 90.00°	Depositor
Resolution (Å)	50.05 – 2.04 50.05 – 2.04	Depositor EDS
% Data completeness (in resolution range)	99.3 (50.05-2.04) 99.4 (50.05-2.04)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 2.03Å)	Xtriage
Refinement program	PHENIX (1.11.1 _2575: ???)	Depositor
R, R_{free}	0.199 , 0.240 0.200 , 0.239	Depositor DCC
R_{free} test set	1803 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	33.8	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 49.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4330	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.61% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: NA, KS1

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	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.38	0/2100	0.55	0/2840
1	B	0.34	0/2015	0.51	0/2726
All	All	0.36	0/4115	0.53	0/5566

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	2057	0	1980	17	0
1	B	1972	0	1921	24	0
2	A	24	0	17	0	0
2	B	24	0	17	1	0
3	A	1	0	0	0	0
4	A	149	0	0	5	1
4	B	103	0	0	3	1
All	All	4330	0	3935	38	1

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 (38) 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:351:CYS:HB3	1:B:356:GLN:HB2	1.78	0.65
1:A:178:LEU:HD13	1:A:301:MET:HE1	1.79	0.63
1:A:319:GLU:HG3	1:B:390:LYS:HE2	1.82	0.62
1:A:153:LEU:HD21	1:A:163:LYS:HB2	1.81	0.61
1:A:326:ASP:OD2	1:A:390:LYS:NZ	2.35	0.57
1:B:191:PHE:CZ	1:B:300:LEU:HD11	2.44	0.52
1:B:135:MET:N	4:B:609:HOH:O	2.45	0.50
1:B:350:GLU:H	1:B:350:GLU:CD	2.21	0.48
1:B:232:SER:HB2	1:B:283:ILE:HG23	1.95	0.48
1:B:241:ARG:NH1	4:B:606:HOH:O	2.41	0.48
1:B:330:ASP:OD1	4:B:601:HOH:O	2.19	0.47
1:B:383:GLU:O	1:B:387:ARG:HG3	2.14	0.47
1:B:331:VAL:HG11	1:B:394:LEU:O	2.15	0.47
1:A:241:ARG:HD2	4:A:695:HOH:O	2.15	0.47
1:A:251:ARG:HG3	4:A:699:HOH:O	2.15	0.46
1:B:148:LYS:HB2	1:B:175:TRP:CD2	2.51	0.46
1:B:245:MET:HE3	1:B:246:LYS:N	2.31	0.46
1:B:258:LEU:HB3	1:B:400:LEU:HD21	1.99	0.45
1:B:261:LEU:HD21	1:B:276:LEU:HD22	1.98	0.45
1:B:153:LEU:HD13	1:B:229:LEU:HD11	1.99	0.45
1:A:153:LEU:HD23	1:A:163:LYS:N	2.32	0.44
1:A:325:TYR:CE1	1:B:320:MET:HG2	2.52	0.44
1:B:245:MET:HE3	1:B:246:LYS:H	1.82	0.44
1:B:159:LYS:HE3	2:B:501:KS1:HAHA	1.99	0.43
1:B:297:LEU:HD23	1:B:297:LEU:HA	1.87	0.43
1:B:203:HIS:CG	1:B:204:PRO:HD2	2.54	0.43
1:A:262:GLN:HG3	4:A:619:HOH:O	2.18	0.43
1:B:258:LEU:HG	1:B:334:PHE:CZ	2.54	0.43
1:A:312:THR:O	1:A:316:MET:HG3	2.19	0.42
1:B:326:ASP:O	1:B:329:VAL:HG22	2.19	0.42
1:A:407:GLU:HG2	4:A:685:HOH:O	2.20	0.42
1:A:346:TYR:HE1	1:B:314:GLU:CD	2.28	0.41
1:A:360:LYS:HG3	1:A:365:ILE:HG23	2.02	0.41
1:A:369:SER:HA	1:A:372:LYS:HG3	2.02	0.40
1:A:163:LYS:NZ	4:A:610:HOH:O	2.53	0.40
1:B:136:LYS:HE3	1:B:136:LYS:HB2	1.86	0.40
1:A:230:MET:HE3	1:A:230:MET:HB3	1.93	0.40
1:A:301:MET:HE2	1:A:301:MET:HB3	1.67	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-

metry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:688:HOH:O	4:B:627:HOH:O[2_354]	2.17	0.03

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	262/285 (92%)	257 (98%)	5 (2%)	0	100	100
1	B	250/285 (88%)	246 (98%)	4 (2%)	0	100	100
All	All	512/570 (90%)	503 (98%)	9 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	213/251 (85%)	207 (97%)	6 (3%)	38	34
1	B	204/251 (81%)	203 (100%)	1 (0%)	81	85
All	All	417/502 (83%)	410 (98%)	7 (2%)	53	53

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	159	LYS

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Mol	Chain	Res	Type
1	A	165	LEU
1	A	194	GLU
1	A	251	ARG
1	A	252	SER
1	A	360	LYS
1	B	217	LEU

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	KS1	A	501	-	28,28,28	1.76	8 (28%)	39,41,41	1.44	10 (25%)
2	KS1	B	501	-	28,28,28	1.67	6 (21%)	39,41,41	1.55	9 (23%)

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	KS1	A	501	-	-	1/8/15/15	0/5/5/5
2	KS1	B	501	-	-	1/8/15/15	0/5/5/5

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	KS1	CAW-NAX	3.96	1.53	1.46
2	A	501	KS1	CAP-CAR	-3.88	1.43	1.49
2	A	501	KS1	CAT-NAO	3.36	1.41	1.36
2	B	501	KS1	CAE-CAP	3.25	1.44	1.39
2	A	501	KS1	CAE-CAP	3.23	1.44	1.39
2	A	501	KS1	C6-NAA	3.18	1.42	1.34
2	B	501	KS1	CAT-NAO	3.13	1.41	1.36
2	A	501	KS1	CAW-NAX	2.50	1.50	1.46
2	B	501	KS1	C2-N1	2.36	1.38	1.33
2	B	501	KS1	C5-C4	2.34	1.43	1.40
2	B	501	KS1	C6-NAA	2.32	1.40	1.34
2	A	501	KS1	CAB-NAO	2.23	1.42	1.38
2	A	501	KS1	CAF-CAS	-2.17	1.37	1.40
2	A	501	KS1	CAT-NAM	2.04	1.38	1.35

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	KS1	CAF-CAP-CAR	3.47	125.84	120.34
2	A	501	KS1	CAE-CAP-CAR	-3.13	114.98	121.22
2	B	501	KS1	CAE-CAP-CAR	-3.00	115.23	121.22
2	B	501	KS1	CAR-NAN-NAX	2.83	108.46	106.97
2	B	501	KS1	C5-C6-NAA	-2.81	119.69	123.40
2	A	501	KS1	C5-C6-NAA	-2.80	119.70	123.40
2	A	501	KS1	CAF-CAP-CAE	2.66	120.66	117.92
2	B	501	KS1	CAS-CAT-NAM	-2.59	125.12	126.66
2	B	501	KS1	CAP-CAR-NAN	2.55	122.22	118.91
2	A	501	KS1	CAF-CAP-CAR	2.52	124.34	120.34
2	A	501	KS1	CAS-CAF-CAP	-2.51	117.36	121.32
2	A	501	KS1	C5-CAR-CAP	-2.35	128.50	131.28
2	A	501	KS1	CAT-NAO-CAB	-2.32	106.78	108.11
2	B	501	KS1	CAS-CAF-CAP	-2.32	117.66	121.32
2	A	501	KS1	CAP-CAR-NAN	2.28	121.87	118.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	KS1	CAW-NAX-NAN	2.12	124.87	119.89
2	A	501	KS1	C5-C4-N3	-2.06	124.78	126.97
2	B	501	KS1	C5-CAR-CAP	-2.05	128.84	131.28
2	A	501	KS1	N3-C4-NAX	2.01	128.66	126.05

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	KS1	CAE-CAP-CAR-NAN
2	B	501	KS1	CAE-CAP-CAR-NAN

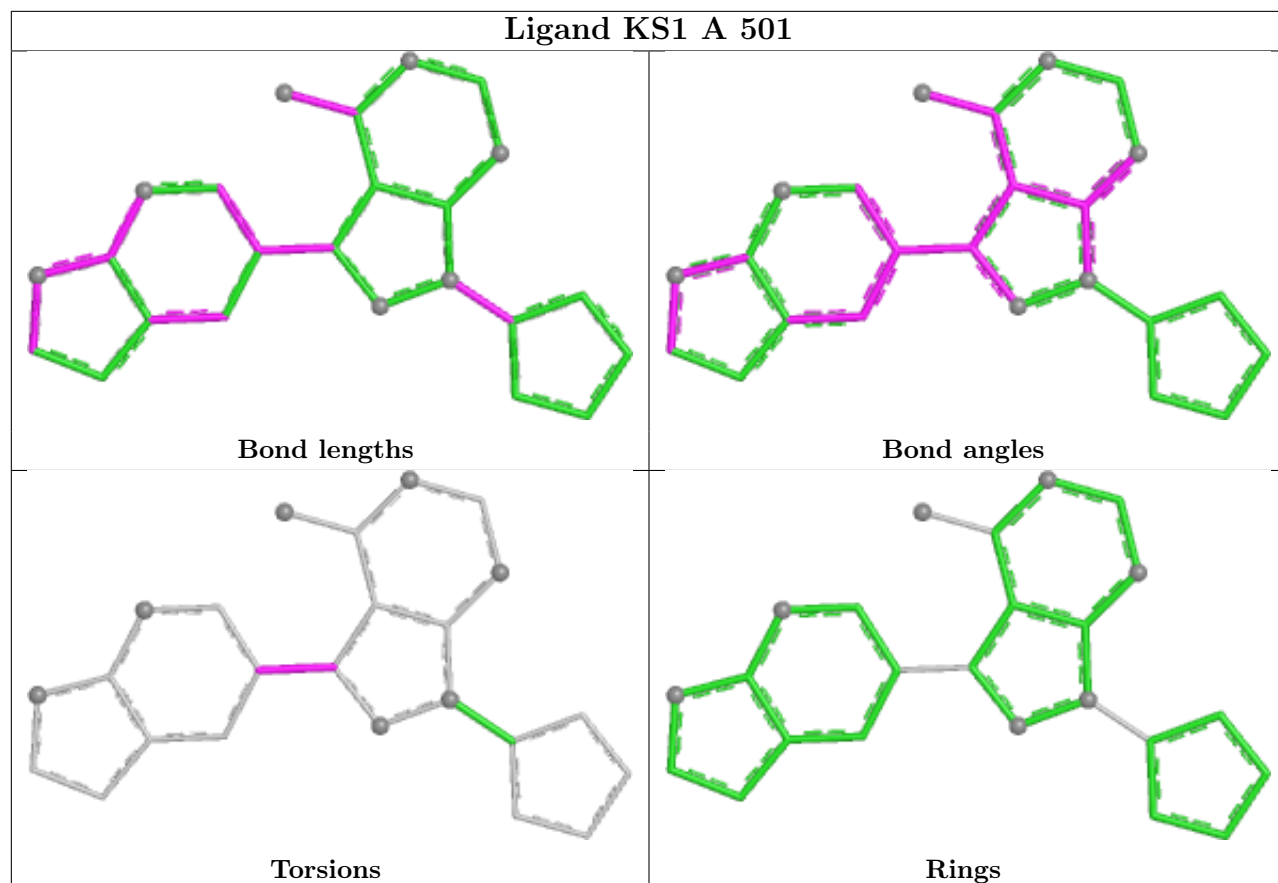
There are no ring outliers.

1 monomer is involved in 1 short contact:

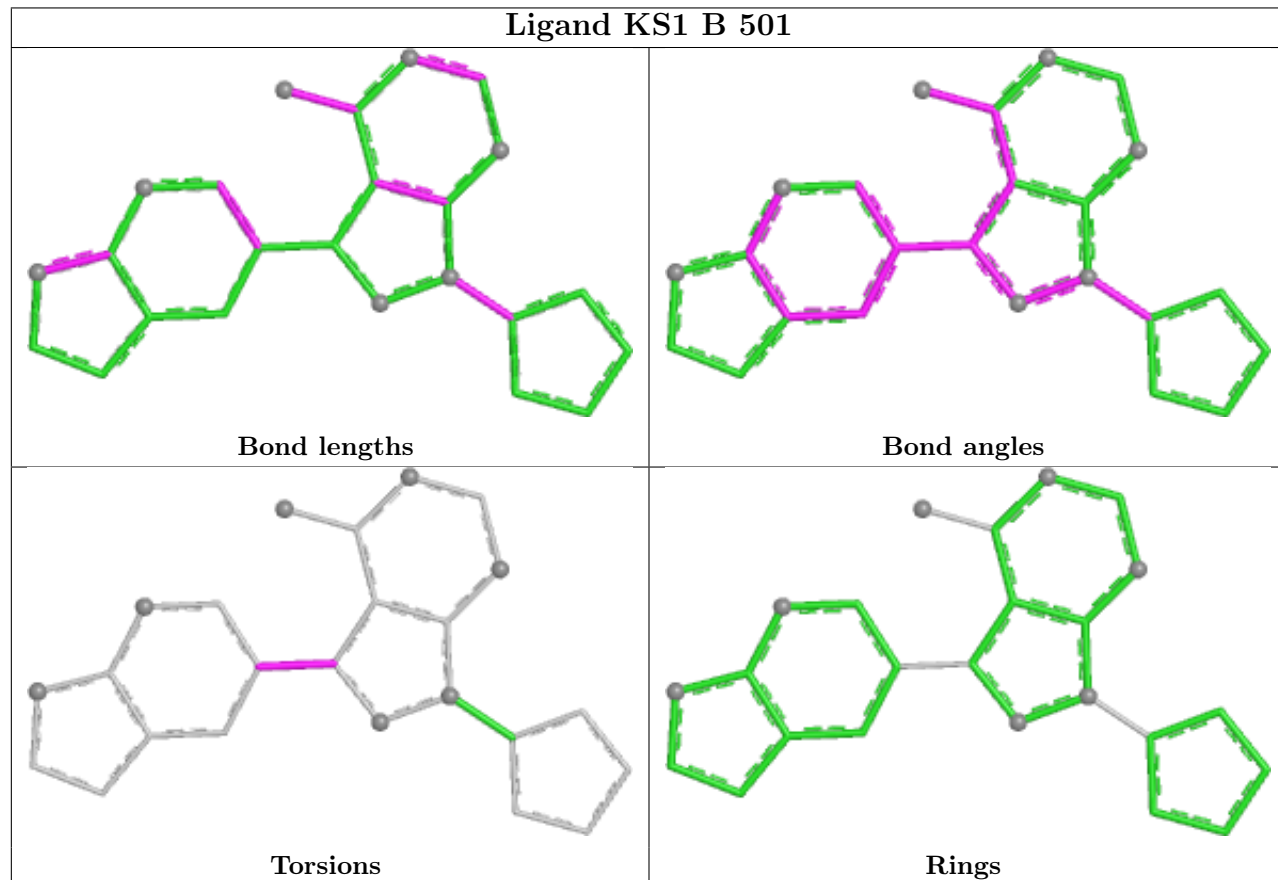
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	501	KS1	1	0

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 than 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.

Ligand KS1 A 501



Ligand KS1 B 501



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

6.1 Protein, DNA and RNA chains

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, 95th 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>2	OWAB(Å ²)	Q<0.9
1	A	269/285 (94%)	0.23	13 (4%) 35 36	18, 35, 66, 77	1 (0%)
1	B	257/285 (90%)	0.68	35 (13%) 7 6	14, 46, 71, 90	1 (0%)
All	All	526/570 (92%)	0.45	48 (9%) 15 15	14, 39, 69, 90	2 (0%)

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	361	VAL	3.9
1	B	371	ASN	3.7
1	B	221	LYS	3.3
1	B	388	GLN	3.3
1	B	216	ILE	3.3
1	B	184	THR	3.2
1	B	300	LEU	3.2
1	B	361	VAL	3.1
1	B	328	SER	3.1
1	B	179	GLN	2.9
1	B	342	ALA	2.9
1	B	381	ILE	2.8
1	B	321	TYR	2.8
1	B	362	THR	2.8
1	B	358	TYR	2.7
1	B	135	MET	2.7
1	B	301	MET	2.7
1	B	368	ALA	2.7
1	A	365	ILE	2.6
1	A	362	THR	2.6
1	B	331	VAL	2.5
1	B	373	VAL	2.5
1	B	325	TYR	2.5
1	A	413	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	358	TYR	2.4
1	B	396	ILE	2.4
1	A	299	THR	2.4
1	B	348	TYR	2.4
1	B	383	GLU	2.4
1	B	385	CYS	2.4
1	B	378	VAL	2.3
1	B	191	PHE	2.2
1	B	242	PHE	2.2
1	A	364	GLY	2.2
1	A	300	LEU	2.2
1	B	406	ALA	2.2
1	B	363	SER	2.2
1	B	389	ASN	2.2
1	B	334	PHE	2.1
1	A	354	ALA	2.1
1	B	400	LEU	2.1
1	B	346	TYR	2.1
1	A	216	ILE	2.1
1	B	217	LEU	2.0
1	A	188	GLN	2.0
1	A	318	PRO	2.0
1	A	183	LEU	2.0
1	B	394	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

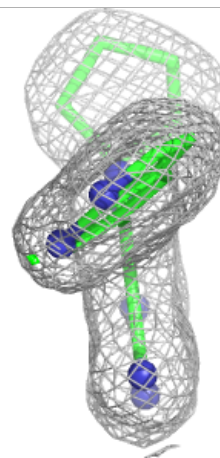
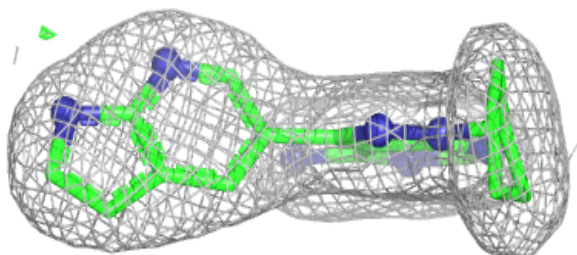
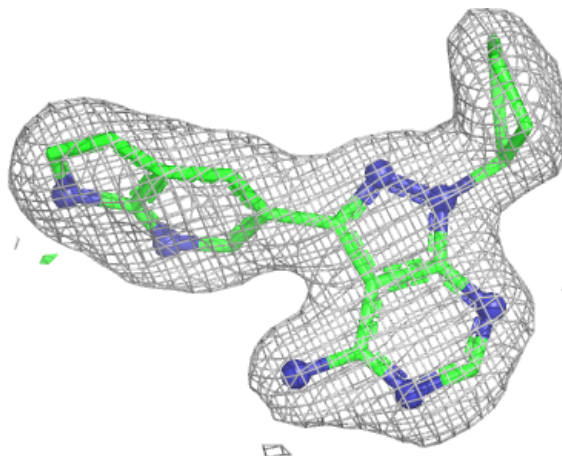
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	NA	A	502	1/1	0.94	0.07	47,47,47,47	0
2	KS1	B	501	24/24	0.97	0.05	20,26,29,31	0
2	KS1	A	501	24/24	0.97	0.06	22,27,38,40	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.

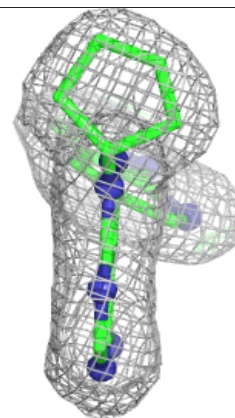
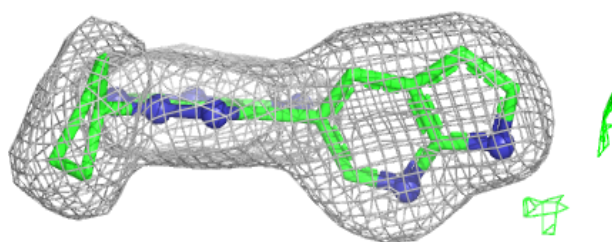
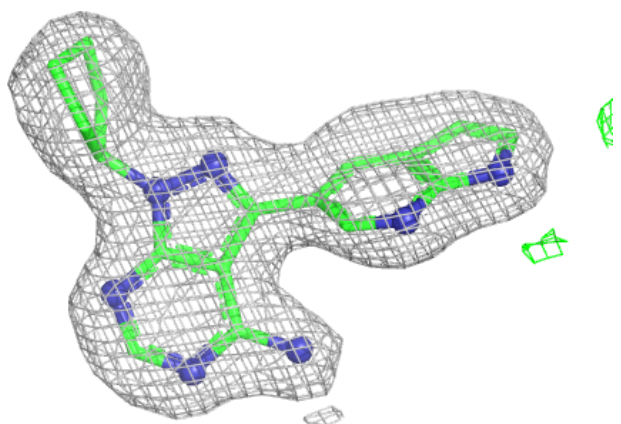
Electron density around KS1 B 501:

2mF_o-DF_c (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
 and green (positive)



Electron density around KS1 A 501:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.