



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 11:25 AM EDT

PDB ID : 6ED6
Title : Crystal structure of Rock2 with a pyridinylbenzamide based inhibitor
Authors : Judge, R.A.; Hobson, A.D.
Deposited on : 2018-08-08
Resolution : 2.86 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

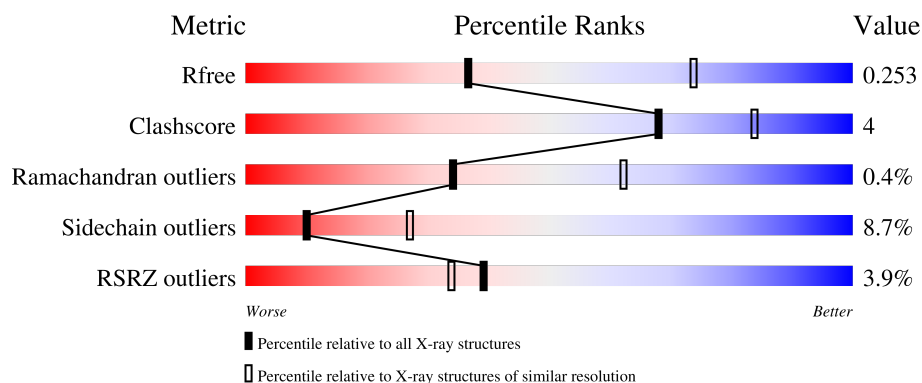
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.86 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}	130704	3168 (2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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	415	 4% 76% 14% • 9%
1	B	415	 3% 73% 13% • 12%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6199 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 Rho-associated protein kinase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	378	Total	C	N	O	S	0	0	0
			3070	1974	512	564	20			
1	B	364	Total	C	N	O	S	0	0	0
			2967	1914	494	541	18			

There are 48 discrepancies between the modelled and reference sequences:

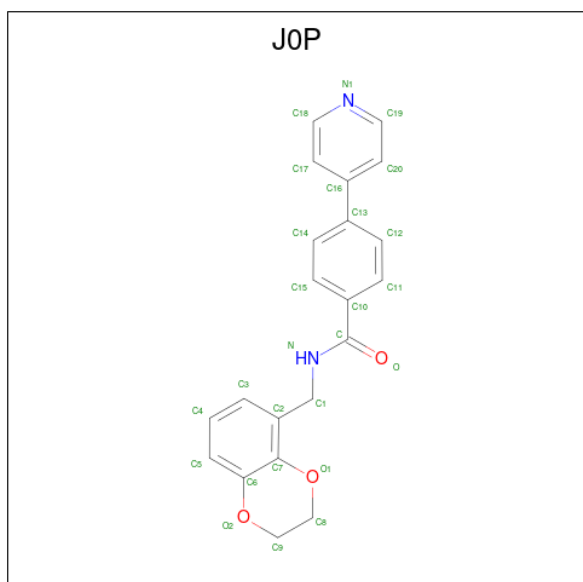
Chain	Residue	Modelled	Actual	Comment	Reference
A	3	MET	-	expression tag	UNP O75116
A	4	SER	-	expression tag	UNP O75116
A	5	TYR	-	expression tag	UNP O75116
A	6	TYR	-	expression tag	UNP O75116
A	7	HIS	-	expression tag	UNP O75116
A	8	HIS	-	expression tag	UNP O75116
A	9	HIS	-	expression tag	UNP O75116
A	10	HIS	-	expression tag	UNP O75116
A	11	HIS	-	expression tag	UNP O75116
A	12	HIS	-	expression tag	UNP O75116
A	13	ASP	-	expression tag	UNP O75116
A	14	TYR	-	expression tag	UNP O75116
A	15	ASP	-	expression tag	UNP O75116
A	16	ILE	-	expression tag	UNP O75116
A	17	PRO	-	expression tag	UNP O75116
A	18	THR	-	expression tag	UNP O75116
A	19	THR	-	expression tag	UNP O75116
A	20	GLU	-	expression tag	UNP O75116
A	21	ASN	-	expression tag	UNP O75116
A	22	LEU	-	expression tag	UNP O75116
A	23	TYR	-	expression tag	UNP O75116
A	24	PHE	-	expression tag	UNP O75116
A	25	GLN	-	expression tag	UNP O75116
A	26	GLY	-	expression tag	UNP O75116
B	3	MET	-	expression tag	UNP O75116

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Chain	Residue	Modelled	Actual	Comment	Reference
B	4	SER	-	expression tag	UNP O75116
B	5	TYR	-	expression tag	UNP O75116
B	6	TYR	-	expression tag	UNP O75116
B	7	HIS	-	expression tag	UNP O75116
B	8	HIS	-	expression tag	UNP O75116
B	9	HIS	-	expression tag	UNP O75116
B	10	HIS	-	expression tag	UNP O75116
B	11	HIS	-	expression tag	UNP O75116
B	12	HIS	-	expression tag	UNP O75116
B	13	ASP	-	expression tag	UNP O75116
B	14	TYR	-	expression tag	UNP O75116
B	15	ASP	-	expression tag	UNP O75116
B	16	ILE	-	expression tag	UNP O75116
B	17	PRO	-	expression tag	UNP O75116
B	18	THR	-	expression tag	UNP O75116
B	19	THR	-	expression tag	UNP O75116
B	20	GLU	-	expression tag	UNP O75116
B	21	ASN	-	expression tag	UNP O75116
B	22	LEU	-	expression tag	UNP O75116
B	23	TYR	-	expression tag	UNP O75116
B	24	PHE	-	expression tag	UNP O75116
B	25	GLN	-	expression tag	UNP O75116
B	26	GLY	-	expression tag	UNP O75116

- Molecule 2 is N-[(2,3-dihydro-1,4-benzodioxin-5-yl)methyl]-4-(pyridin-4-yl)benzamide (three-letter code: J0P) (formula: C₂₁H₁₈N₂O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			26	21	2	3		
2	B	1	Total	C	N	O	0	0
			26	21	2	3		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	50	Total	O	0	0
			50	50		
3	B	60	Total	O	0	0
			60	60		

- Molecule 1: Rho-associated protein kinase 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	53.45Å 136.67Å 148.69Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.40 – 2.86 43.40 – 2.86	Depositor EDS
% Data completeness (in resolution range)	98.9 (43.40-2.86) 98.9 (43.40-2.86)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.92 (at 2.86Å)	Xtriage
Refinement program	BUSTER 2.11.7	Depositor
R, R_{free}	0.204 , 0.247 0.203 , 0.253	Depositor DCC
R_{free} test set	1331 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	80.3	Xtriage
Anisotropy	0.381	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 69.5	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	0.94	EDS
Total number of atoms	6199	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.85% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: J0P

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	0.50	0/3146	0.71	0/4252
1	B	0.51	0/3041	0.71	0/4108
All	All	0.51	0/6187	0.71	0/8360

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

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	3070	0	3005	21	0
1	B	2967	0	2913	26	0
2	A	26	0	0	0	0
2	B	26	0	0	1	0
3	A	50	0	0	0	0
3	B	60	0	0	0	0
All	All	6199	0	5918	46	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 4.

All (46) 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:135:ALA:HA	1:B:138:TRP:CD1	2.27	0.70
1:B:274:GLU:HA	1:B:277:TRP:CD1	2.31	0.64
1:B:212:HIS:HA	1:B:236:CYS:SG	2.42	0.59
1:B:135:ALA:HA	1:B:138:TRP:HD1	1.64	0.59
1:B:106:VAL:HG21	2:B:501:J0P:C15	2.32	0.59
1:A:200:LEU:HD13	1:A:364:ILE:HD11	1.85	0.58
1:A:194:TYR:O	1:A:198:VAL:HG23	2.04	0.58
1:A:210:LEU:HD23	1:A:236:CYS:HB3	1.86	0.57
1:B:177:LEU:HD23	1:B:283:PHE:CE1	2.43	0.54
1:B:143:ILE:HG22	1:B:147:ALA:HB2	1.91	0.53
1:A:151:TRP:CH2	1:A:365:ARG:HG3	2.44	0.53
1:A:253:THR:O	1:A:257:ILE:HG13	2.09	0.53
1:B:54:VAL:HG21	1:B:79:VAL:HG21	1.92	0.52
1:A:200:LEU:CD1	1:A:364:ILE:HD11	2.42	0.49
1:A:282:VAL:HG13	1:A:293:PRO:HD2	1.94	0.49
1:A:94:VAL:HA	1:A:109:VAL:HG12	1.96	0.48
1:A:317:GLU:H	1:A:317:GLU:CD	2.16	0.48
1:A:54:VAL:HG21	1:A:79:VAL:HG21	1.96	0.48
1:B:194:TYR:O	1:B:198:VAL:HG23	2.15	0.47
1:A:97:VAL:HG22	1:A:107:GLN:HG2	1.95	0.47
1:B:219:ASN:ND2	1:B:232:ASP:HB3	2.30	0.47
1:B:409:PRO:HG2	1:B:410:PHE:CE2	2.50	0.47
1:B:144:MET:HB3	1:B:155:LEU:HB2	1.98	0.46
1:A:95:VAL:HG21	1:A:379:ILE:HG21	1.97	0.45
1:B:220:MET:HB3	1:B:228:LEU:HD11	1.97	0.45
1:B:282:VAL:HG13	1:B:293:PRO:HD2	1.98	0.45
1:A:289:VAL:HG22	1:A:321:ILE:HD11	1.97	0.45
1:B:339:ARG:O	1:B:342:ARG:HD2	2.16	0.44
1:B:158:ALA:O	1:B:414:THR:HA	2.18	0.44
1:B:219:ASN:HD22	1:B:232:ASP:HB3	1.83	0.44
1:A:59:PHE:HB2	1:A:62:LEU:HD12	2.00	0.43
1:B:254:PRO:HA	1:B:257:ILE:HD12	1.99	0.43
1:A:330:CYS:O	1:A:334:THR:HG23	2.19	0.43
1:A:127:GLU:O	1:A:131:ARG:HB2	2.19	0.43
1:B:177:LEU:HD23	1:B:283:PHE:CZ	2.54	0.43
1:A:36:ASP:HB3	1:A:39:SER:HB2	2.01	0.43
1:B:151:TRP:CH2	1:B:365:ARG:HG3	2.54	0.43
1:B:317:GLU:H	1:B:317:GLU:CD	2.22	0.42
1:B:188:GLU:HG2	1:B:353:PHE:HE1	1.84	0.42
1:B:345:VAL:HA	1:B:348:ILE:HD12	2.01	0.42
1:A:303:TYR:CE1	1:B:303:TYR:CE1	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:216:LYS:HG2	1:B:219:ASN:OD1	2.20	0.41
1:A:210:LEU:CD2	1:A:236:CYS:HB3	2.49	0.41
1:A:31:GLU:HA	1:A:34:ILE:HD12	2.02	0.41
1:A:206:HIS:HA	1:A:210:LEU:O	2.21	0.41
1:B:303:TYR:CD1	1:B:303:TYR:C	2.95	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	Percentiles	
1	A	372/415 (90%)	349 (94%)	22 (6%)	1 (0%)	41	68
1	B	356/415 (86%)	328 (92%)	26 (7%)	2 (1%)	25	53
All	All	728/830 (88%)	677 (93%)	48 (7%)	3 (0%)	34	62

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	317	GLU
1	B	232	ASP
1	A	254	PRO

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	335/367 (91%)	304 (91%)	31 (9%)	9	24
1	B	323/367 (88%)	297 (92%)	26 (8%)	12	31
All	All	658/734 (90%)	601 (91%)	57 (9%)	10	27

All (57) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	ARG
1	A	52	SER
1	A	63	ARG
1	A	66	LYS
1	A	73	ASN
1	A	76	GLU
1	A	93	ASP
1	A	165	LEU
1	A	210	LEU
1	A	215	VAL
1	A	228	LEU
1	A	246	HIS
1	A	253	THR
1	A	263	LYS
1	A	270	PHE
1	A	297	ASP
1	A	299	LEU
1	A	303	TYR
1	A	304	SER
1	A	305	LYS
1	A	307	MET
1	A	342	ARG
1	A	349	ARG
1	A	355	LYS
1	A	362	ASP
1	A	364	ILE
1	A	365	ARG
1	A	366	GLU
1	A	367	THR
1	A	395	GLU
1	A	397	PHE
1	B	28	ARG
1	B	30	LEU
1	B	34	ILE
1	B	41	ILE

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Mol	Chain	Res	Type
1	B	64	LYS
1	B	66	LYS
1	B	88	LYS
1	B	131	ARG
1	B	143	ILE
1	B	165	LEU
1	B	180	LEU
1	B	185	ASP
1	B	228	LEU
1	B	237	MET
1	B	255	ASP
1	B	262	LEU
1	B	264	SER
1	B	274	GLU
1	B	286	GLU
1	B	315	PHE
1	B	336	ARG
1	B	338	VAL
1	B	342	ARG
1	B	355	LYS
1	B	357	ASP
1	B	364	ILE

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry

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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	J0P	A	501	-	29,29,29	1.11	2 (6%)	39,39,39	0.88	2 (5%)
2	J0P	B	501	-	29,29,29	1.32	3 (10%)	39,39,39	1.00	2 (5%)

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	J0P	A	501	-	-	1/13/20/20	0/4/4/4
2	J0P	B	501	-	-	2/13/20/20	0/4/4/4

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	J0P	C-N	2.85	1.40	1.33
2	A	501	J0P	C17-C16	2.38	1.44	1.39
2	B	501	J0P	C12-C13	2.27	1.43	1.39
2	B	501	J0P	O1-C7	2.24	1.41	1.37
2	A	501	J0P	C20-C16	2.09	1.43	1.39

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	J0P	O2-C6-C7	-3.60	119.05	121.78
2	A	501	J0P	O2-C6-C7	-3.10	119.43	121.78
2	B	501	J0P	C8-O1-C7	2.41	119.45	113.96
2	A	501	J0P	C8-O1-C7	2.04	118.63	113.96

There are no chirality outliers.

All (3) torsion outliers are listed below:

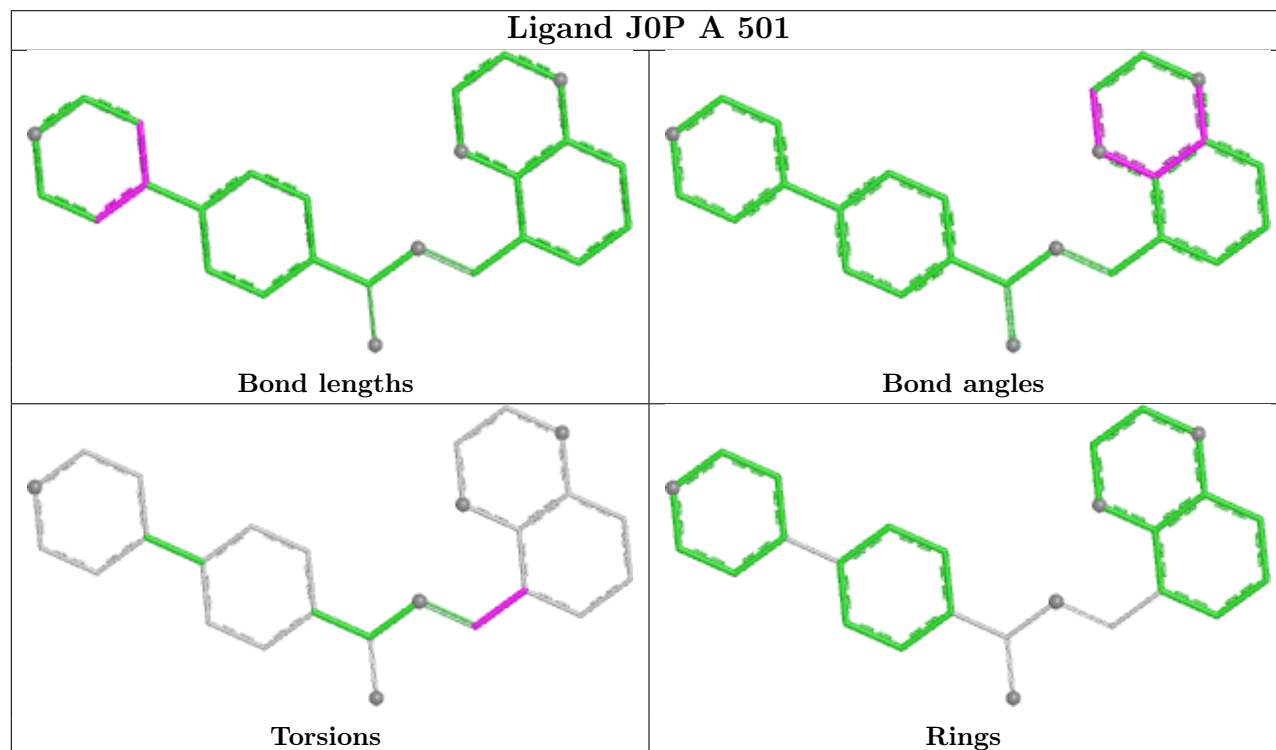
Mol	Chain	Res	Type	Atoms
2	B	501	J0P	N-C1-C2-C7
2	B	501	J0P	N-C1-C2-C3
2	A	501	J0P	N-C1-C2-C7

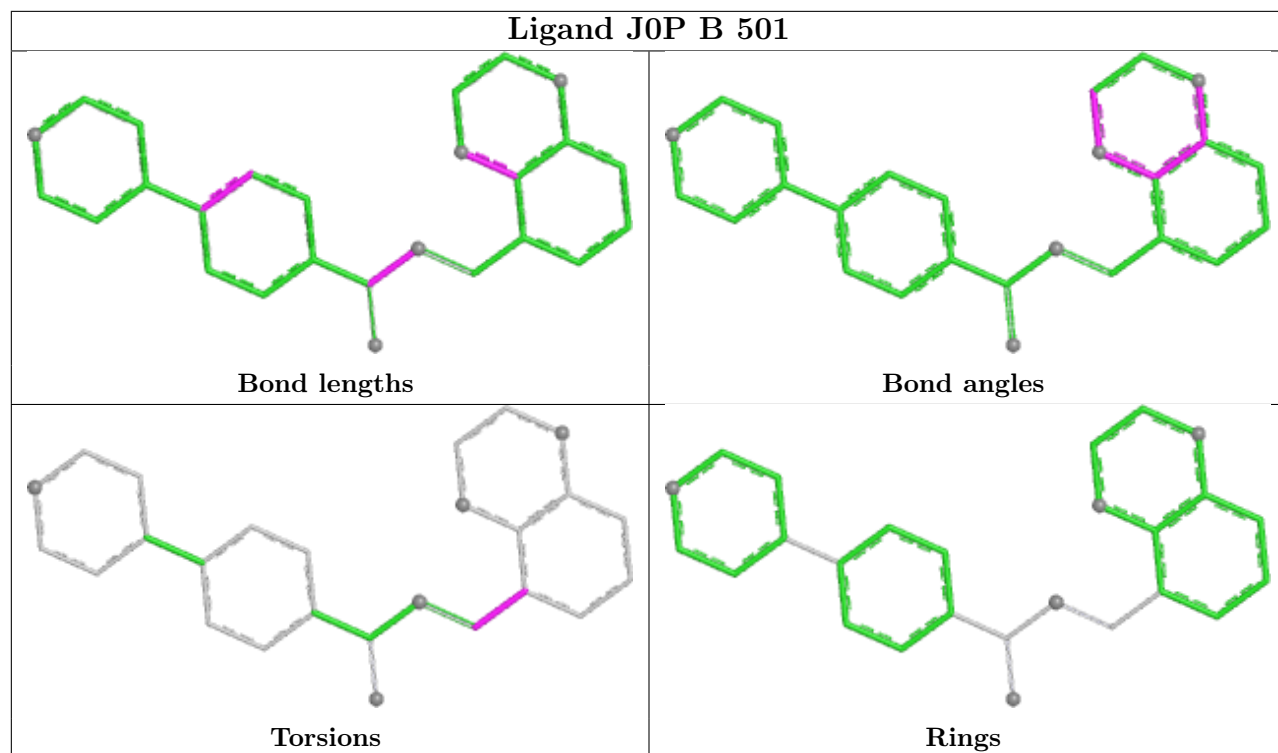
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	501	J0P	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.





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	378/415 (91%)	0.19	17 (4%) 33 28	54, 81, 122, 134	0
1	B	364/415 (87%)	0.18	12 (3%) 46 41	51, 82, 110, 142	0
All	All	742/830 (89%)	0.19	29 (3%) 39 34	51, 82, 119, 142	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	303	TYR	5.7
1	A	242	THR	5.6
1	B	61	ALA	5.0
1	A	243	GLY	4.4
1	A	246	HIS	4.0
1	B	318	ASP	3.8
1	A	386	ASP	3.8
1	A	401	LYS	3.8
1	B	401	LYS	3.6
1	B	319	ALA	3.4
1	A	270	PHE	3.1
1	A	241	GLU	3.1
1	A	244	MET	2.7
1	B	62	LEU	2.7
1	B	333	LEU	2.6
1	A	60	PRO	2.6
1	A	315	PHE	2.6
1	A	253	THR	2.5
1	A	245	VAL	2.5
1	B	324	HIS	2.4
1	B	395	GLU	2.3
1	A	38	ARG	2.3
1	A	236	CYS	2.3
1	A	30	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	330	CYS	2.2
1	B	271	TYR	2.2
1	B	348	ILE	2.1
1	B	188	GLU	2.1
1	A	387	ILE	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](#)

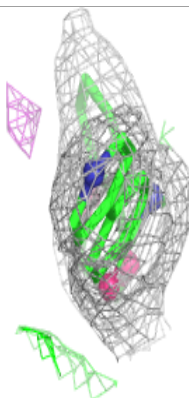
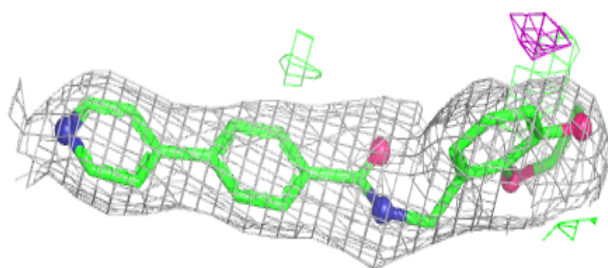
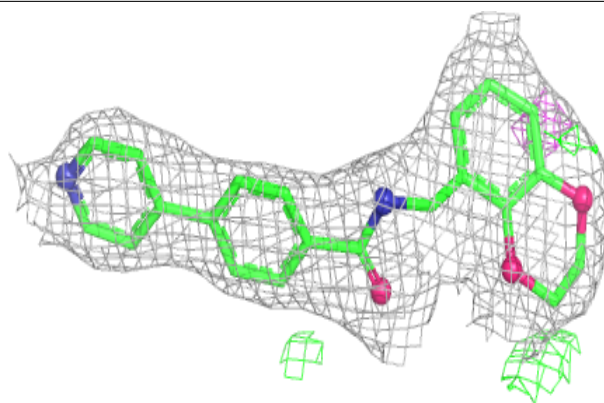
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	J0P	B	501	26/26	0.94	0.22	66,81,88,90	0
2	J0P	A	501	26/26	0.96	0.17	62,69,83,85	0

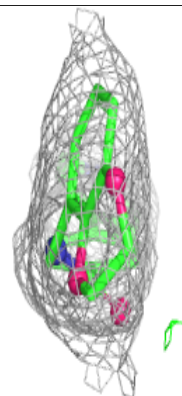
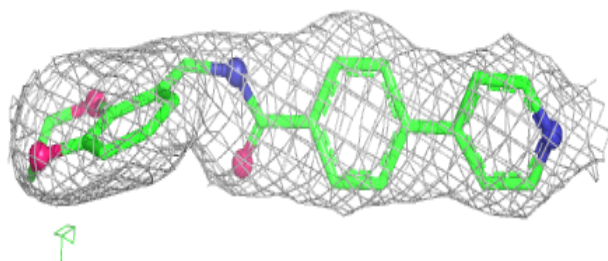
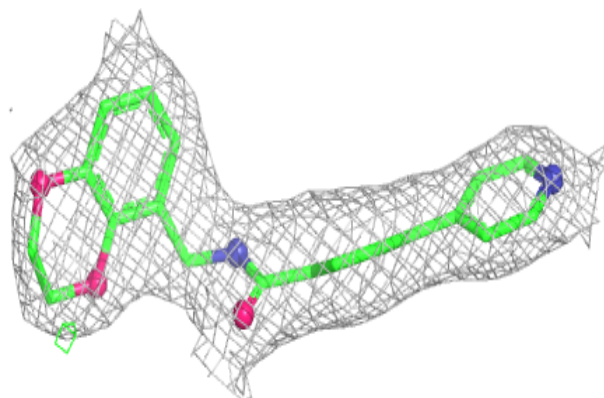
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around J0P 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 J0P 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 [i](#)

There are no such residues in this entry.