



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:23 PM UTC

PDB ID : 7K7O / pdb_00007k7o
Title : CRYSTAL STRUCTURE OF TYROSINE KINASE 2 JH2 (PSEUDO KINASE DOMAIN) COMPLEXED WITH COMPOUND-12 AKA:6-[(cyclopropanecarbonyl)amino]-4-{[2-methoxy-3-(pyrimidin-2-yl)phenyl]amino}-N-methylpyridazine-3-carboxamide
Authors : Khan, J.A.
Deposited on : 2020-09-23
Resolution : 2.82 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

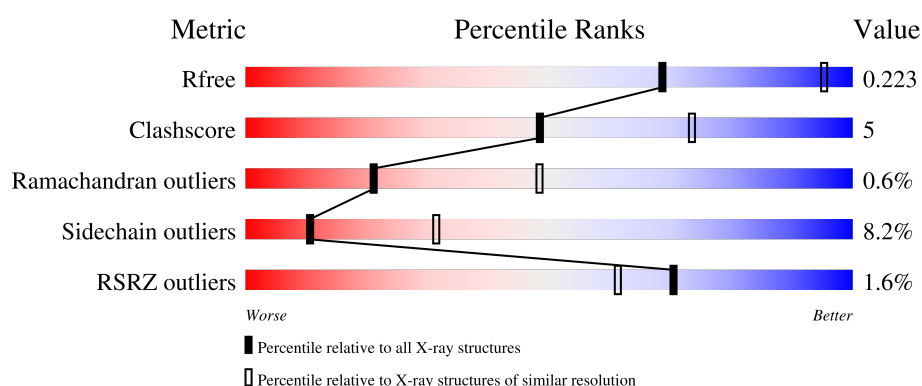
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.82 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	4591 (2.84-2.80)
Clashscore	190562	5010 (2.84-2.80)
Ramachandran outliers	187476	4916 (2.84-2.80)
Sidechain outliers	187428	4918 (2.84-2.80)
RSRZ outliers	180081	4594 (2.84-2.80)

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	317	0% 64% 16% • 19%
1	B	317	2% 65% 14% • 19%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4095 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 Non-receptor tyrosine-protein kinase TYK2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	257	Total	C	N	O	S	0	1	0
			1976	1257	351	356	12			
1	B	257	Total	C	N	O	S	0	1	0
			1980	1260	352	356	12			

There are 44 discrepancies between the modelled and reference sequences:

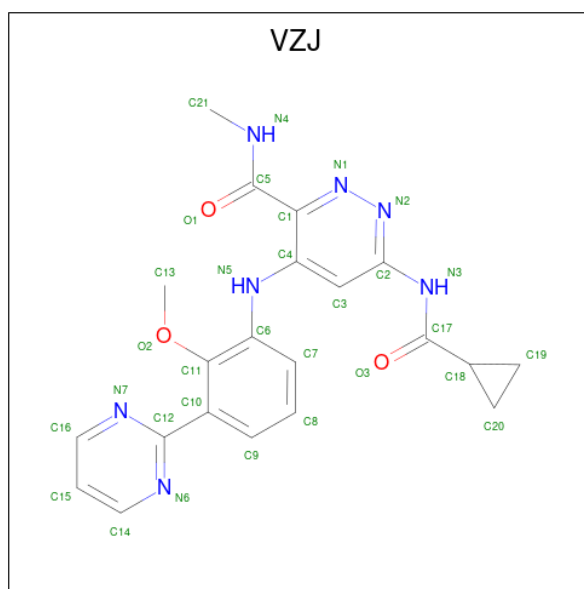
Chain	Residue	Modelled	Actual	Comment	Reference
A	553	MET	-	expression tag	UNP P29597
A	554	GLY	-	expression tag	UNP P29597
A	555	SER	-	expression tag	UNP P29597
A	556	SER	-	expression tag	UNP P29597
A	557	HIS	-	expression tag	UNP P29597
A	558	HIS	-	expression tag	UNP P29597
A	559	HIS	-	expression tag	UNP P29597
A	560	HIS	-	expression tag	UNP P29597
A	561	HIS	-	expression tag	UNP P29597
A	562	HIS	-	expression tag	UNP P29597
A	563	SER	-	expression tag	UNP P29597
A	564	SER	-	expression tag	UNP P29597
A	565	GLY	-	expression tag	UNP P29597
A	566	GLU	-	expression tag	UNP P29597
A	567	THR	-	expression tag	UNP P29597
A	568	VAL	-	expression tag	UNP P29597
A	569	ARG	-	expression tag	UNP P29597
A	570	PHE	-	expression tag	UNP P29597
A	571	GLN	-	expression tag	UNP P29597
A	572	GLY	-	expression tag	UNP P29597
A	573	HIS	-	expression tag	UNP P29597
A	574	MET	-	expression tag	UNP P29597
B	553	MET	-	expression tag	UNP P29597
B	554	GLY	-	expression tag	UNP P29597
B	555	SER	-	expression tag	UNP P29597

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Chain	Residue	Modelled	Actual	Comment	Reference
B	556	SER	-	expression tag	UNP P29597
B	557	HIS	-	expression tag	UNP P29597
B	558	HIS	-	expression tag	UNP P29597
B	559	HIS	-	expression tag	UNP P29597
B	560	HIS	-	expression tag	UNP P29597
B	561	HIS	-	expression tag	UNP P29597
B	562	HIS	-	expression tag	UNP P29597
B	563	SER	-	expression tag	UNP P29597
B	564	SER	-	expression tag	UNP P29597
B	565	GLY	-	expression tag	UNP P29597
B	566	GLU	-	expression tag	UNP P29597
B	567	THR	-	expression tag	UNP P29597
B	568	VAL	-	expression tag	UNP P29597
B	569	ARG	-	expression tag	UNP P29597
B	570	PHE	-	expression tag	UNP P29597
B	571	GLN	-	expression tag	UNP P29597
B	572	GLY	-	expression tag	UNP P29597
B	573	HIS	-	expression tag	UNP P29597
B	574	MET	-	expression tag	UNP P29597

- Molecule 2 is 6-[(cyclopropanecarbonyl)amino]-4-{[2-methoxy-3-(pyrimidin-2-yl)phenyl]amino}-N-methylpyridazine-3-carboxamide (CCD ID: VZJ) (formula: C₂₁H₂₁N₇O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			31	21	7	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			31	21	7	3		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	32	Total	O	0	0
			32	32		
3	B	45	Total	O	0	0
			45	45		

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	71.06Å 66.62Å 74.97Å 90.00° 112.94° 90.00°	Depositor
Resolution (Å)	47.94 – 2.82 47.94 – 2.82	Depositor EDS
% Data completeness (in resolution range)	99.6 (47.94-2.82) 99.6 (47.94-2.82)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.81 (at 2.81Å)	Xtriage
Refinement program	BUSTER 2.11.4	Depositor
R, R_{free}	0.178 , 0.252 (Not available) , 0.223	Depositor DCC
R_{free} test set	785 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	54.2	Xtriage
Anisotropy	0.828	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 79.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4095	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.66% 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: VZJ

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	0.90	0/2028	1.44	7/2758 (0.3%)
1	B	0.89	0/2031	1.42	12/2761 (0.4%)
All	All	0.89	0/4059	1.43	19/5519 (0.3%)

There are no bond length outliers.

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	605	GLU	N-CA-C	-7.13	100.92	110.55
1	B	751	THR	N-CA-C	-6.21	106.92	114.75
1	A	647	SER	N-CA-C	5.73	117.68	109.14
1	B	750	GLY	CA-C-N	5.67	131.38	121.52
1	B	750	GLY	C-N-CA	5.67	131.38	121.52
1	B	751	THR	CA-C-N	5.50	135.22	121.80
1	B	751	THR	C-N-CA	5.50	135.22	121.80
1	B	691	GLU	CB-CG-CD	5.43	121.84	112.60
1	B	798	TRP	CA-C-N	5.40	126.09	119.99
1	B	798	TRP	C-N-CA	5.40	126.09	119.99
1	A	690	VAL	CA-C-N	5.38	131.82	121.54
1	A	690	VAL	C-N-CA	5.38	131.82	121.54
1	A	605	GLU	N-CA-C	-5.36	101.79	110.32
1	A	865	ASP	CA-CB-CG	5.33	117.93	112.60
1	A	694	PRO	CA-C-N	5.25	127.58	120.38
1	A	694	PRO	C-N-CA	5.25	127.58	120.38
1	B	751	THR	CB-CA-C	5.16	115.82	109.16
1	B	645	ASP	CA-CB-CG	5.10	117.70	112.60
1	B	865	ASP	CA-CB-CG	5.05	117.65	112.60

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	1976	0	1925	21	0
1	B	1980	0	1941	22	0
2	A	31	0	0	0	0
2	B	31	0	0	0	0
3	A	32	0	0	0	0
3	B	45	0	0	0	0
All	All	4095	0	3866	43	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 (43) 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:A:597:GLN:HE21	1:A:602:ASN:HD21	1.38	0.69
1:B:690:VAL:HG21	1:B:741:LEU:HB3	1.75	0.68
1:B:690:VAL:CG2	1:B:741:LEU:HB3	2.32	0.60
1:B:749:GLU:N	1:B:750:GLY:HA2	2.16	0.60
1:A:794:ALA:HA	1:A:797:LYS:HD3	1.84	0.59
1:B:661:LEU:O	1:B:665:VAL:HG22	2.02	0.59
1:A:637:LEU:HD22	1:A:638:ARG:H	1.68	0.57
1:B:775:ARG:HB3	1:B:779:LEU:HB2	1.87	0.56
1:A:699:LEU:HD23	1:A:706:VAL:HG21	1.86	0.56
1:A:833:LEU:HD12	1:A:849:LEU:HD22	1.90	0.54
1:A:714:VAL:HG13	1:A:755:ILE:HG21	1.89	0.54
1:A:608:LEU:HD13	1:A:686:VAL:HG11	1.91	0.53
1:B:800:PHE:CE2	1:B:862:ILE:HG21	2.45	0.52
1:B:808[A]:CYS:SG	1:B:838:CYS:SG	3.08	0.51
1:B:813:ALA:HB3	1:B:816:GLN:HG3	1.93	0.50
1:A:601:THR:HG22	1:A:644:LEU:HA	1.95	0.49
1:B:677:CYS:HB3	1:B:684:ILE:HB	1.95	0.48
1:A:667:HIS:HB3	1:A:670:LEU:HG	1.95	0.48
1:A:642:LYS:HE3	1:A:687:THR:HG21	1.97	0.47
1:B:690:VAL:HG21	1:B:741:LEU:CB	2.44	0.46
1:A:597:GLN:HG2	1:A:602:ASN:ND2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:PRO:CB	1:A:738:ARG:HD3	2.46	0.45
1:B:608:LEU:O	1:B:636:GLU:HA	2.17	0.44
1:B:670:LEU:HD23	1:B:757:LEU:HB3	2.00	0.43
1:B:708:MET:SD	1:B:838:CYS:SG	3.13	0.43
1:B:844:LEU:HD21	1:B:862:ILE:HG23	1.99	0.43
1:A:640:VAL:HG23	1:A:689:TYR:HA	2.01	0.43
1:A:698:TRP:CZ2	1:A:702:GLU:HG3	2.54	0.43
1:A:694:PRO:HB3	1:A:738:ARG:HD3	2.01	0.43
1:B:694:PRO:HB3	1:B:738:ARG:HD3	2.01	0.42
1:B:718:LEU:HD11	1:B:757:LEU:HD13	2.02	0.42
1:A:777:PRO:HG3	1:A:814:PRO:O	2.19	0.42
1:B:597:GLN:HG2	1:B:602:ASN:ND2	2.34	0.42
1:A:607:ARG:NH1	1:A:638:ARG:HG3	2.34	0.42
1:A:605:GLU:HG3	1:A:689:TYR:CE2	2.55	0.41
1:B:692:HIS:CG	1:B:745:LEU:HG	2.55	0.41
1:B:751:THR:O	1:B:752:SER:HB2	2.21	0.41
1:A:637:LEU:HD22	1:A:638:ARG:N	2.33	0.41
1:A:767:LEU:HD11	1:A:775:ARG:CZ	2.51	0.40
1:B:701:ARG:HE	1:B:701:ARG:HB3	1.72	0.40
1:B:773:VAL:HG22	1:B:784:LEU:HD11	2.03	0.40
1:A:741:LEU:HD11	1:A:758:SER:HB2	2.03	0.40
1:B:776:ILE:HB	1:B:823:LYS:HD2	2.04	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	252/317 (80%)	237 (94%)	13 (5%)	2 (1%)	16	41
1	B	252/317 (80%)	239 (95%)	12 (5%)	1 (0%)	30	58
All	All	504/634 (80%)	476 (94%)	25 (5%)	3 (1%)	21	48

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	752	SER
1	A	691	GLU
1	A	680	GLY

5.3.2 Protein sidechains ⓘ

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	208/273 (76%)	190 (91%)	18 (9%)	9	29
1	B	209/273 (77%)	193 (92%)	16 (8%)	12	34
All	All	417/546 (76%)	383 (92%)	34 (8%)	10	31

All (34) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	583	ARG
1	A	637	LEU
1	A	653	LEU
1	A	657	GLU
1	A	661	LEU
1	A	666	SER
1	A	668	THR
1	A	679	ARG
1	A	723	SER
1	A	740	ILE
1	A	741	LEU
1	A	742	LEU
1	A	744	ARG
1	A	764	LEU
1	A	804	LEU
1	A	818	ARG
1	A	835	GLU
1	A	863	LEU
1	B	583	ARG
1	B	660	SER

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Mol	Chain	Res	Type
1	B	690	VAL
1	B	701	ARG
1	B	729	ASN
1	B	731	VAL
1	B	742	LEU
1	B	752	SER
1	B	755	ILE
1	B	764	LEU
1	B	775	ARG
1	B	779	LEU
1	B	793	THR
1	B	804	LEU
1	B	818	ARG
1	B	863	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	602	ASN
1	A	664	GLN
1	A	692	HIS
1	B	586	GLN
1	B	602	ASN
1	B	669	HIS
1	B	739	ASN
1	B	828	GLN

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 oligosaccharides 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	VZJ	B	901	-	34,34,34	0.28	0	43,47,47	0.65	1 (2%)
2	VZJ	A	901	-	34,34,34	0.37	0	43,47,47	0.58	1 (2%)

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	VZJ	B	901	-	-	6/24/26/26	0/4/4/4
2	VZJ	A	901	-	-	0/24/26/26	0/4/4/4

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	901	VZJ	C6-N5-C4	2.59	133.50	125.41
2	A	901	VZJ	C6-N5-C4	2.20	132.29	125.41

There are no chirality outliers.

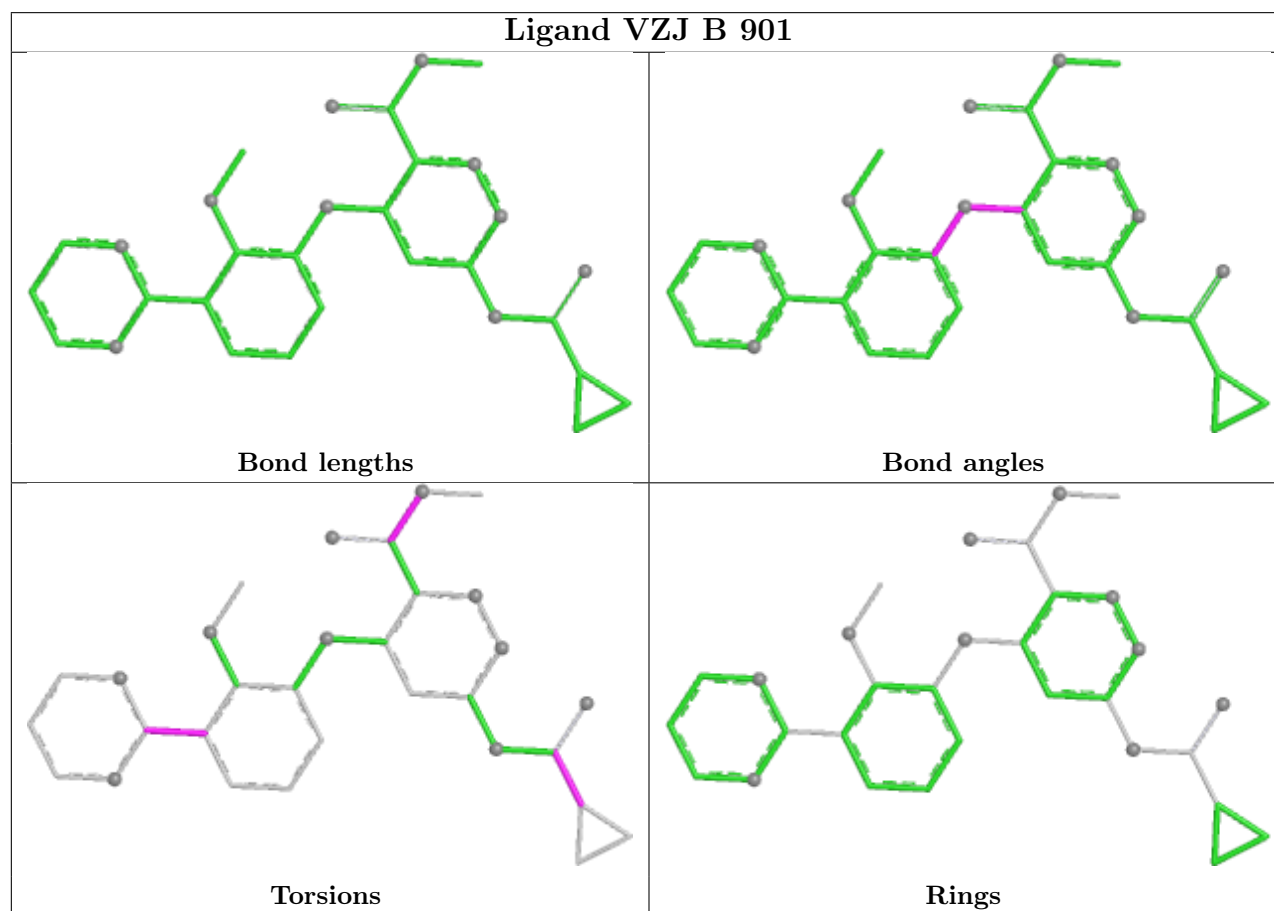
All (6) torsion outliers are listed below:

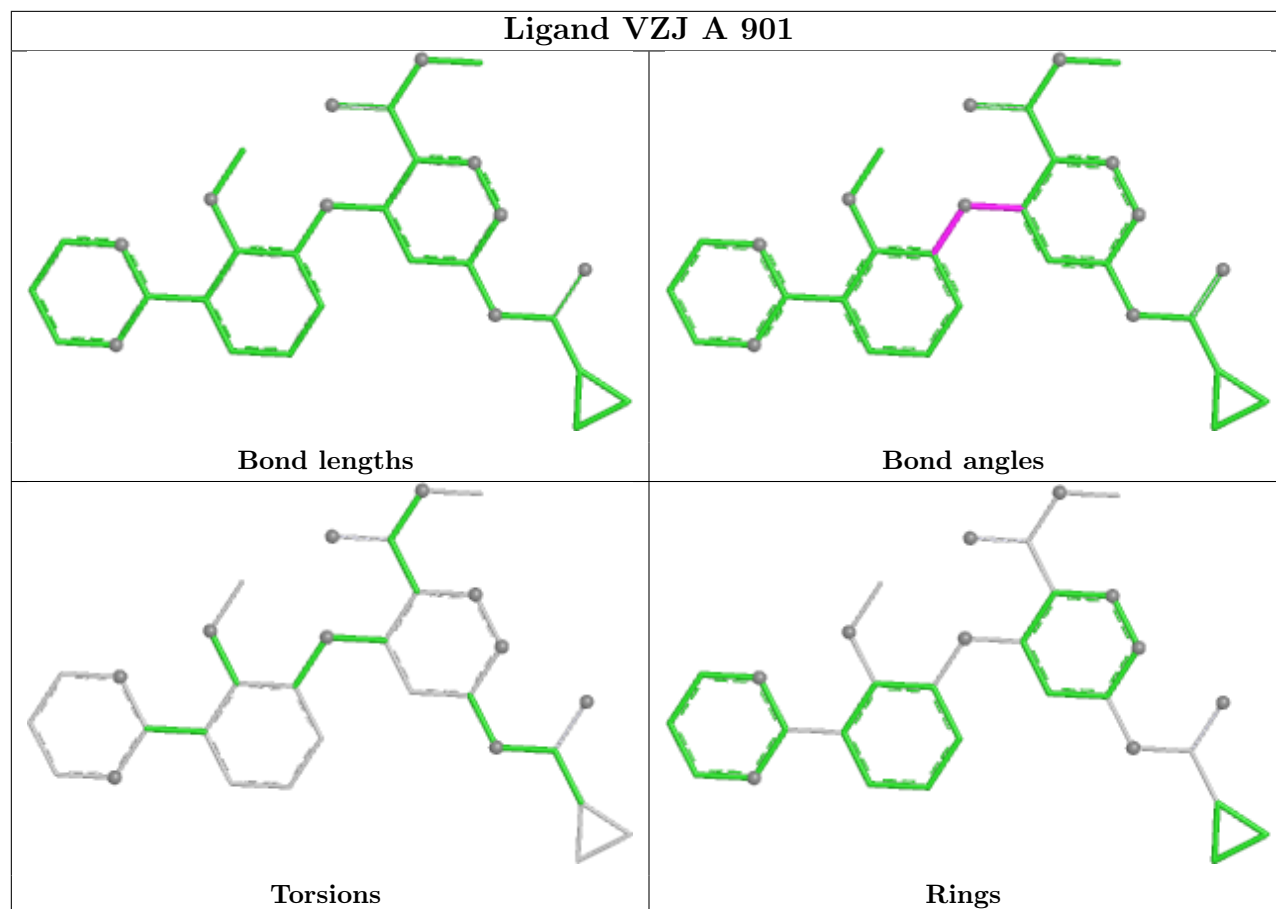
Mol	Chain	Res	Type	Atoms
2	B	901	VZJ	N3-C17-C18-C19
2	B	901	VZJ	O3-C17-C18-C19
2	B	901	VZJ	C1-C5-N4-C21
2	B	901	VZJ	C11-C10-C12-N6
2	B	901	VZJ	N3-C17-C18-C20
2	B	901	VZJ	O1-C5-N4-C21

There are no ring outliers.

No monomer is involved in short contacts.

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 [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, 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	257/317 (81%)	0.02	3 (1%) 76 68	38, 57, 77, 95	2 (0%)
1	B	257/317 (81%)	0.01	5 (1%) 66 57	36, 54, 78, 95	1 (0%)
All	All	514/634 (81%)	0.01	8 (1%) 70 61	36, 56, 78, 95	3 (0%)

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	751	THR	7.7
1	A	867	THR	3.3
1	A	840	GLN	3.3
1	B	750	GLY	3.1
1	B	748	ALA	2.7
1	B	840	GLN	2.2
1	A	791	LEU	2.1
1	B	749	GLU	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,

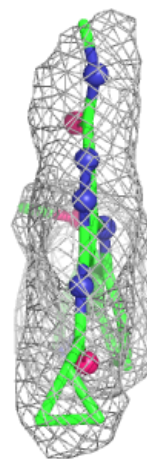
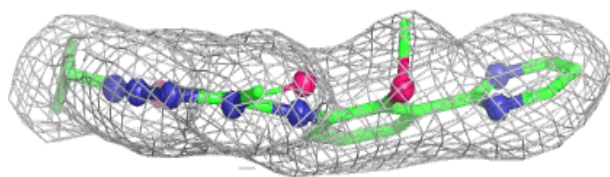
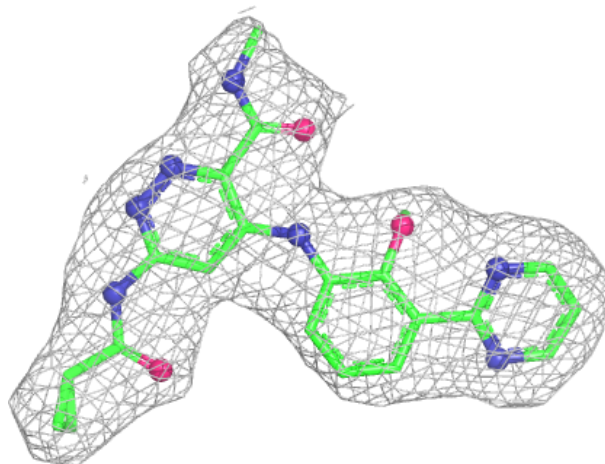
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	VZJ	A	901	31/31	0.96	0.07	33,40,44,45	0
2	VZJ	B	901	31/31	0.96	0.08	40,44,54,55	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.

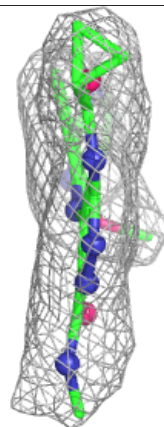
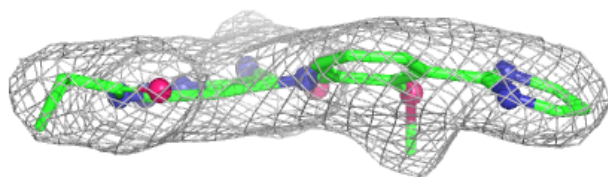
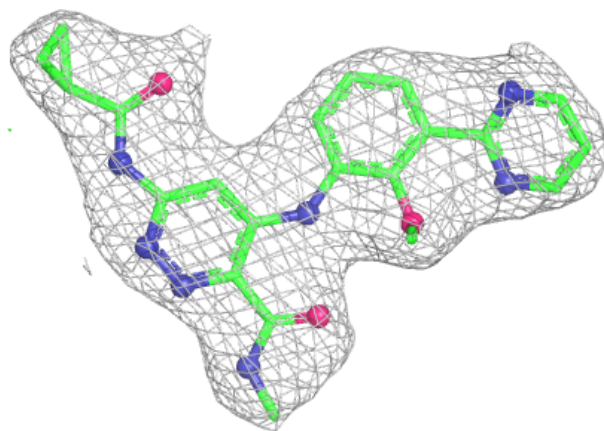
Electron density around VZJ A 901:

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 VZJ B 901:

$2mF_o-DF_c$ (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.