



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 09:24 PM EDT

PDB ID : 7F7W / pdb_00007f7w
Title : JAK2-JH2
Authors : Niu, L.
Deposited on : 2021-06-30
Resolution : 1.83 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 : 4-5-2 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

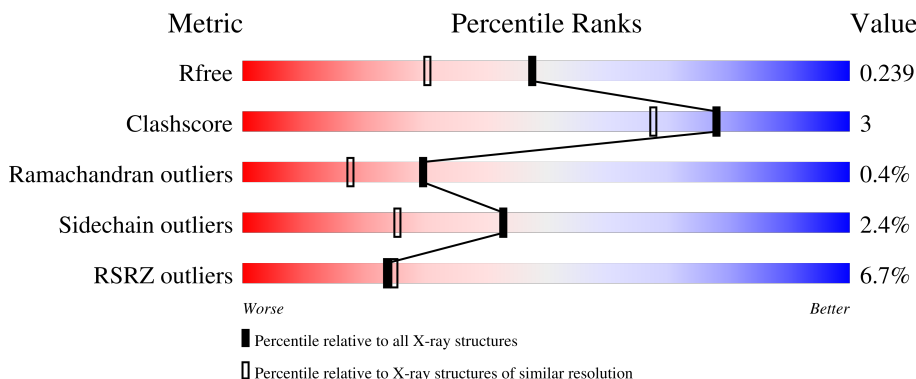
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.83 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	1296 (1.84-1.84)
Clashscore	190562	1329 (1.84-1.84)
Ramachandran outliers	187476	1318 (1.84-1.84)
Sidechain outliers	187428	1318 (1.84-1.84)
RSRZ outliers	180081	1296 (1.84-1.84)

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	275	9% 93% 5%
1	B	275	5% 93% 6%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 9211 atoms, of which 4449 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.

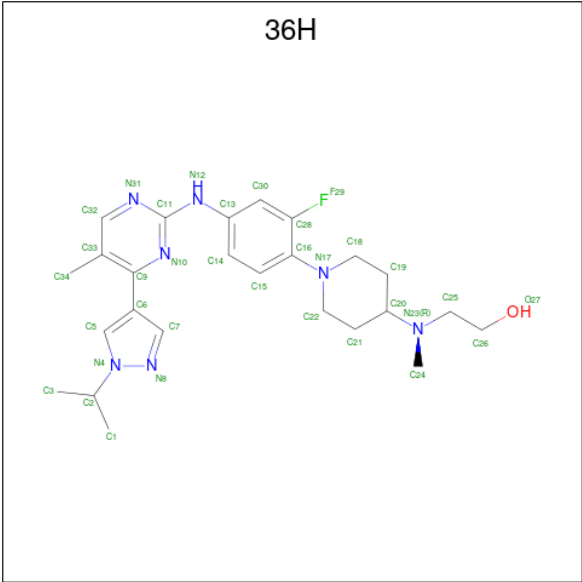
- Molecule 1 is a protein called Tyrosine-protein kinase JAK2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	275	Total	C	H	N	O	S	0	1	0
			4428	1430	2196	384	407	11			
1	B	275	Total	C	H	N	O	S	0	0	0
			4410	1425	2185	383	406	11			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	617	PHE	VAL	variant	UNP O60674
A	777	ALA	TRP	conflict	UNP O60674
A	794	HIS	PHE	conflict	UNP O60674
B	617	PHE	VAL	variant	UNP O60674
B	777	ALA	TRP	conflict	UNP O60674
B	794	HIS	PHE	conflict	UNP O60674

- Molecule 2 is 2-((1-(2-fluoro-4-((4-(1-isopropyl-1H-pyrazol-4-yl)-5-methylpyrimidin-2-yl)amino)phenyl)piperidin-4-yl)(methylamino)ethan-1-ol (CCD ID: 36H) (formula: C₂₅H₃₄FN₇O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	F	H	N	O	0	0
			68	25	1	34	7	1		
2	B	1	Total	C	F	H	N	O	0	0
			68	25	1	34	7	1		

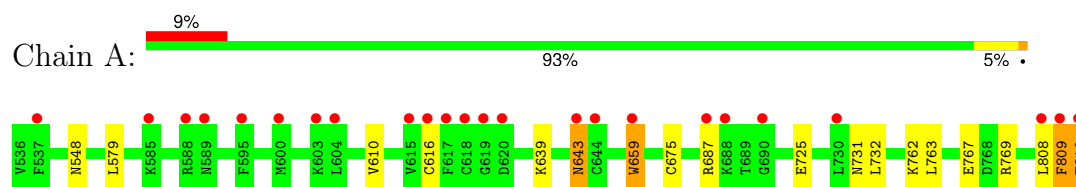
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	132	Total	O	0	0
			132	132		
3	B	105	Total	O	0	0
			105	105		

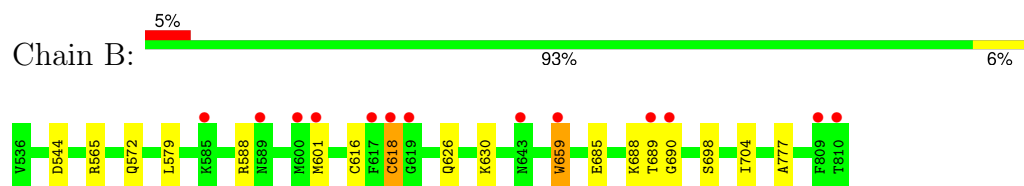
3 Residue-property plots [i](#)

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: Tyrosine-protein kinase JAK2



- Molecule 1: Tyrosine-protein kinase JAK2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.98Å 57.77Å 86.24Å 90.00° 109.32° 90.00°	Depositor
Resolution (Å)	57.55 – 1.83 57.55 – 1.83	Depositor EDS
% Data completeness (in resolution range)	97.7 (57.55-1.83) 97.7 (57.55-1.83)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.28 (at 1.83Å)	Xtriage
Refinement program	PHENIX 1.8.4_1496	Depositor
R, R_{free}	0.207 , 0.238 0.211 , 0.239	Depositor DCC
R_{free} test set	1206 reflections (2.40%)	wwPDB-VP
Wilson B-factor (Å ²)	29.0	Xtriage
Anisotropy	0.349	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 42.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9211	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 88.50 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.7839e-08. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: 36H

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	0.43	0/2284	0.71	0/3089
1	B	0.43	0/2277	0.70	0/3079
All	All	0.43	0/4561	0.70	0/6168

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	2232	2196	2228	14	0
1	B	2225	2185	2220	11	0
2	A	34	34	0	1	0
2	B	34	34	0	1	0
3	A	132	0	0	8	0
3	B	105	0	0	7	0
All	All	4762	4449	4448	25	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 3.

All (25) 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:675:CYS:SG	3:A:1224:HOH:O	2.28	0.91
1:B:544:ASP:OD1	1:B:565:ARG:NH2	2.05	0.90
1:A:616:CYS:SG	3:A:1213:HOH:O	2.36	0.84
1:B:616:CYS:SG	3:B:1195:HOH:O	2.45	0.74
1:B:685:GLU:OE1	3:B:1101:HOH:O	2.07	0.73
1:A:548:ASN:ND2	3:A:1102:HOH:O	2.10	0.72
1:A:767:GLU:OE2	3:A:1101:HOH:O	2.07	0.72
1:B:618:CYS:SG	3:B:1195:HOH:O	2.48	0.71
1:A:731:ASN:OD1	1:A:732:LEU:N	2.30	0.65
1:B:698:SER:OG	3:B:1102:HOH:O	2.16	0.63
1:B:626:GLN:NE2	3:B:1104:HOH:O	2.30	0.62
1:A:769:ARG:NE	3:A:1103:HOH:O	2.21	0.58
1:A:610[A]:VAL:HG13	3:A:1105:HOH:O	2.04	0.58
1:B:572:GLN:NE2	3:B:1106:HOH:O	2.38	0.55
1:B:777:ALA:O	3:B:1103:HOH:O	2.19	0.52
1:A:808:LEU:O	1:A:809:PHE:HB3	2.13	0.48
1:A:809:PHE:O	1:A:810:THR:HG23	2.14	0.48
1:A:762:LYS:NZ	3:A:1109:HOH:O	2.36	0.47
1:A:659:TRP:CE3	1:A:659:TRP:O	2.71	0.44
1:A:579:LEU:HG	2:A:1000:36H:C33	2.49	0.43
1:A:643:ASN:OD1	1:A:643:ASN:N	2.40	0.42
1:B:579:LEU:HG	2:B:1000:36H:C33	2.50	0.42
1:B:688:LYS:C	1:B:690:GLY:H	2.27	0.41
1:B:659:TRP:O	1:B:659:TRP:CE3	2.74	0.41
1:A:639:LYS:HD3	3:A:1117:HOH:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	274/275 (100%)	268 (98%)	5 (2%)	1 (0%)	30	18
1	B	273/275 (99%)	264 (97%)	8 (3%)	1 (0%)	30	18
All	All	547/550 (100%)	532 (97%)	13 (2%)	2 (0%)	30	18

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	618	CYS
1	A	809	PHE

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	248/247 (100%)	242 (98%)	6 (2%)	43	25
1	B	247/247 (100%)	241 (98%)	6 (2%)	43	25
All	All	495/494 (100%)	483 (98%)	12 (2%)	43	25

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	643	ASN
1	A	659	TRP
1	A	687	ARG
1	A	725	GLU
1	A	763	LEU
1	A	810	THR
1	B	588	ARG
1	B	601	MET
1	B	630	LYS
1	B	659	TRP
1	B	689	THR
1	B	704	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	662	HIS
1	A	667	ASN
1	A	713	GLN
1	A	794	HIS
1	B	589	ASN
1	B	608	HIS
1	B	626	GLN
1	B	713	GLN
1	B	782	ASN

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](#)

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	36H	B	1000	-	36,37,37	1.56	4 (11%)	48,52,52	2.03	18 (37%)
2	36H	A	1000	-	36,37,37	1.67	4 (11%)	48,52,52	2.11	20 (41%)

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	36H	B	1000	-	-	14/23/33/33	0/4/4/4
2	36H	A	1000	-	-	13/23/33/33	0/4/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1000	36H	C20-N23	7.55	1.56	1.47
2	B	1000	36H	C20-N23	6.78	1.55	1.47
2	B	1000	36H	C9-C33	3.19	1.43	1.40
2	A	1000	36H	C9-C33	3.10	1.43	1.40
2	B	1000	36H	C5-N4	3.03	1.39	1.34
2	A	1000	36H	C5-N4	2.48	1.38	1.34
2	B	1000	36H	C24-N23	2.25	1.51	1.46
2	A	1000	36H	C24-N23	2.16	1.51	1.46

All (38) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1000	36H	C14-C13-C30	-4.76	113.91	119.66
2	B	1000	36H	C7-N8-N4	4.61	106.51	104.14
2	B	1000	36H	C14-C13-C30	-4.53	114.17	119.66
2	B	1000	36H	C13-C30-C28	4.36	122.47	118.82
2	A	1000	36H	C28-C16-N17	4.18	125.31	120.42
2	A	1000	36H	C13-C30-C28	4.13	122.28	118.82
2	A	1000	36H	N31-C11-N10	-4.05	122.50	126.42
2	A	1000	36H	C7-N8-N4	4.01	106.20	104.14
2	B	1000	36H	N31-C11-N10	-3.80	122.74	126.42
2	A	1000	36H	C34-C33-C9	3.56	128.42	123.34
2	B	1000	36H	C28-C16-N17	3.46	124.47	120.42
2	B	1000	36H	C34-C33-C9	3.43	128.24	123.34
2	A	1000	36H	C19-C20-C21	-3.11	104.14	111.17
2	B	1000	36H	C5-N4-N8	-3.07	110.39	112.45
2	B	1000	36H	C19-C20-C21	-3.05	104.28	111.17
2	A	1000	36H	C5-N4-N8	-3.00	110.43	112.45
2	A	1000	36H	C15-C14-C13	2.86	123.60	120.30
2	A	1000	36H	C24-N23-C25	-2.76	106.46	110.51
2	A	1000	36H	C15-C16-C28	-2.68	112.03	117.31
2	B	1000	36H	C24-N23-C25	-2.60	106.70	110.51
2	A	1000	36H	C14-C15-C16	2.53	124.17	119.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1000	36H	C14-C15-C16	2.43	123.98	119.10
2	B	1000	36H	C15-C16-C28	-2.42	112.53	117.31
2	A	1000	36H	C21-C22-N17	2.42	116.40	110.92
2	B	1000	36H	C18-N17-C16	2.37	121.82	116.19
2	B	1000	36H	C15-C14-C13	2.34	122.99	120.30
2	A	1000	36H	C22-C21-C20	2.27	114.94	110.78
2	A	1000	36H	C22-N17-C16	2.26	121.54	116.19
2	A	1000	36H	C13-N12-C11	2.21	135.34	129.38
2	B	1000	36H	F29-C28-C16	2.14	120.41	118.37
2	A	1000	36H	C18-N17-C16	2.14	121.26	116.19
2	B	1000	36H	C22-N17-C16	2.14	121.26	116.19
2	B	1000	36H	C18-N17-C22	2.13	116.36	111.57
2	A	1000	36H	C9-N10-C11	2.10	119.87	117.26
2	A	1000	36H	F29-C28-C16	2.06	120.33	118.37
2	B	1000	36H	C21-C22-N17	2.06	115.59	110.92
2	A	1000	36H	C19-C18-N17	2.05	115.57	110.92
2	B	1000	36H	C13-N12-C11	2.01	134.82	129.38

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1000	36H	C21-C20-N23-C24
2	A	1000	36H	C21-C20-N23-C25
2	A	1000	36H	C19-C20-N23-C24
2	A	1000	36H	C5-C6-C9-C33
2	B	1000	36H	C21-C20-N23-C24
2	B	1000	36H	C5-C6-C9-C33
2	A	1000	36H	C28-C16-N17-C18
2	B	1000	36H	C28-C16-N17-C18
2	A	1000	36H	N23-C25-C26-O27
2	B	1000	36H	N23-C25-C26-O27
2	B	1000	36H	C21-C20-N23-C25
2	A	1000	36H	C5-C6-C9-N10
2	B	1000	36H	C5-C6-C9-N10
2	B	1000	36H	C19-C20-N23-C24
2	B	1000	36H	C1-C2-N4-N8
2	B	1000	36H	C3-C2-N4-N8
2	B	1000	36H	C15-C16-N17-C18
2	B	1000	36H	C7-C6-C9-N10
2	A	1000	36H	C15-C16-N17-C18
2	A	1000	36H	C28-C16-N17-C22

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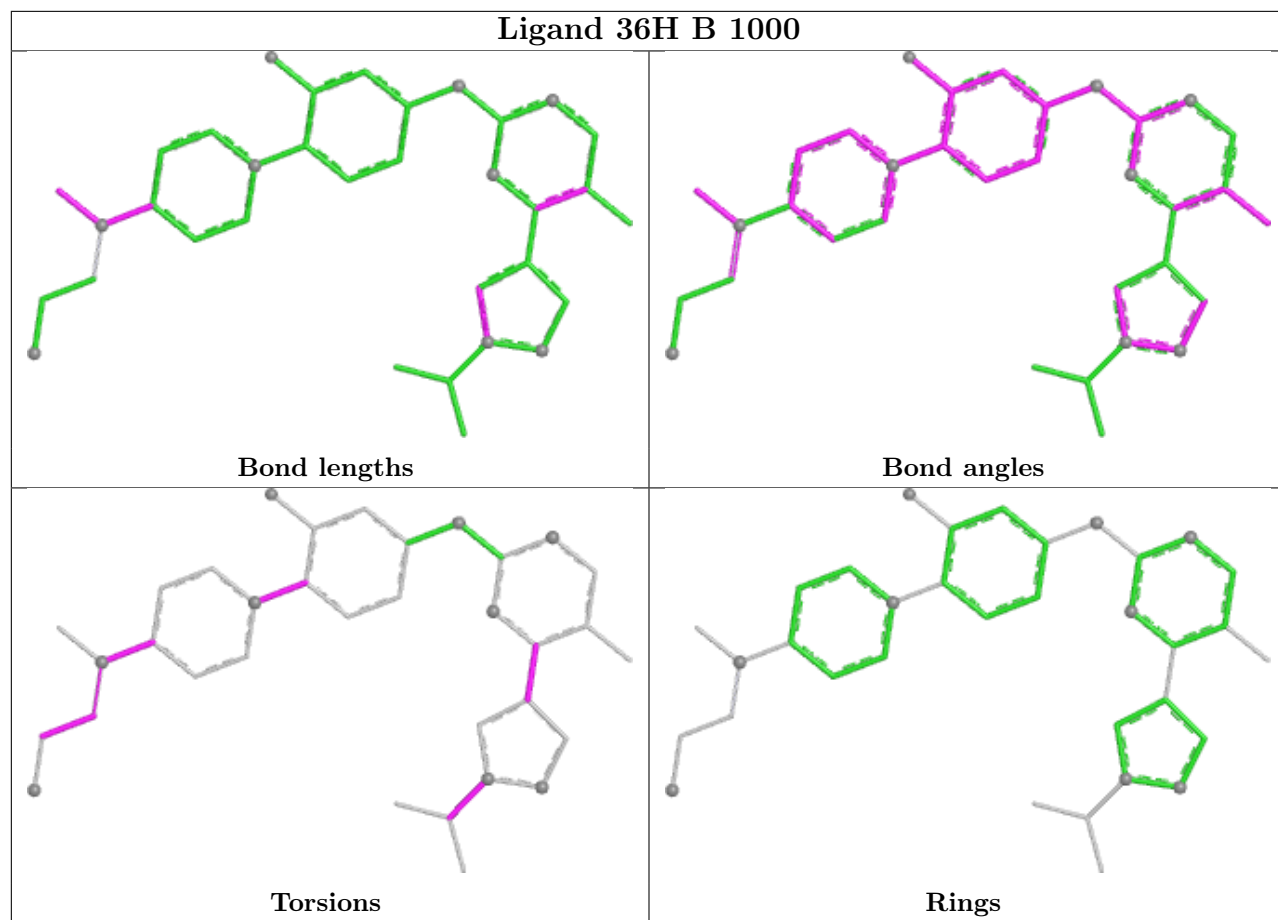
Mol	Chain	Res	Type	Atoms
2	B	1000	36H	C26-C25-N23-C20
2	A	1000	36H	C7-C6-C9-C33
2	B	1000	36H	C7-C6-C9-C33
2	A	1000	36H	C15-C16-N17-C22
2	A	1000	36H	C7-C6-C9-N10
2	B	1000	36H	C3-C2-N4-C5
2	A	1000	36H	C19-C20-N23-C25

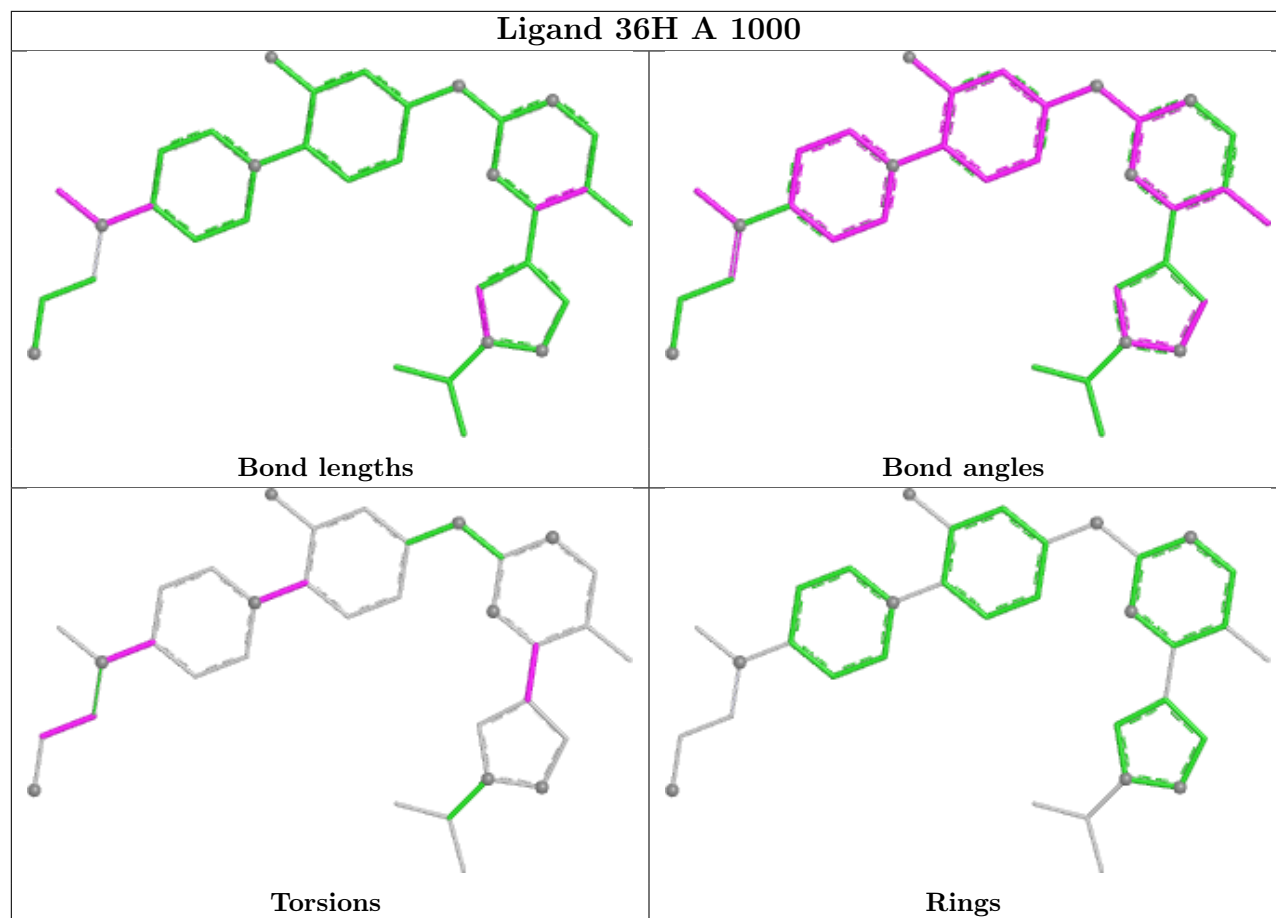
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1000	36H	1	0
2	A	1000	36H	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	275/275 (100%)	0.45	24 (8%)	16 16	17, 40, 82, 103	1 (0%)
1	B	275/275 (100%)	0.38	13 (4%)	36 38	25, 42, 82, 97	0
All	All	550/550 (100%)	0.41	37 (6%)	24 25	17, 41, 82, 103	1 (0%)

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	617	PHE	7.9
1	B	617	PHE	7.2
1	A	659	TRP	5.8
1	B	659	TRP	5.3
1	B	810	THR	4.4
1	A	810	THR	4.4
1	B	689	THR	4.1
1	A	809	PHE	4.0
1	A	618	CYS	3.9
1	B	809	PHE	3.6
1	A	615	VAL	3.5
1	B	643	ASN	3.1
1	A	643	ASN	3.1
1	A	600	MET	3.0
1	A	644	CYS	3.0
1	B	600	MET	3.0
1	A	808	LEU	2.9
1	A	589	ASN	2.9
1	B	618	CYS	2.8
1	B	589	ASN	2.8
1	B	601	MET	2.6
1	A	620	ASP	2.5
1	A	619	GLY	2.5
1	B	690	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	687	ARG	2.4
1	A	537	PHE	2.4
1	B	619	GLY	2.3
1	A	616	CYS	2.3
1	B	585	LYS	2.3
1	A	604	LEU	2.2
1	A	690	GLY	2.2
1	A	588	ARG	2.1
1	A	688	LYS	2.1
1	A	595	PHE	2.1
1	A	603	LYS	2.1
1	A	730	LEU	2.1
1	A	585	LYS	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](#)

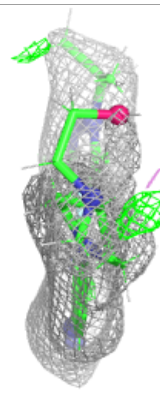
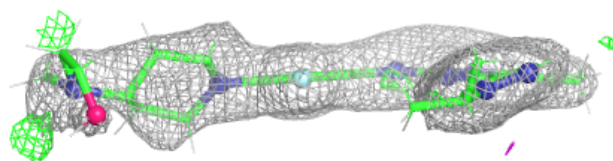
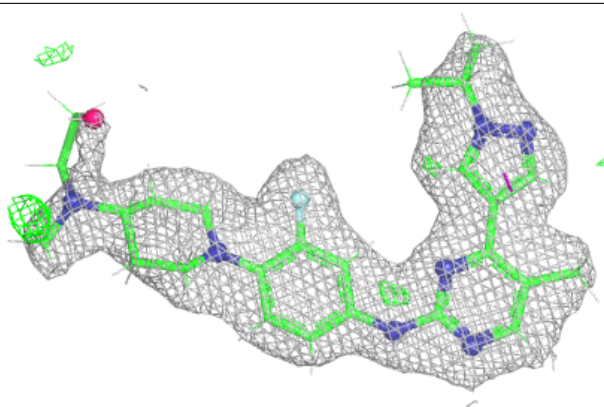
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
2	36H	A	1000	34/34	0.92	0.11	24,43,90,108	0
2	36H	B	1000	34/34	0.94	0.10	25,45,99,107	0

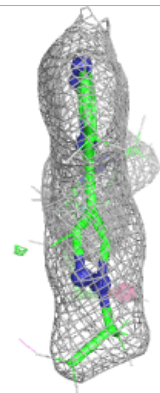
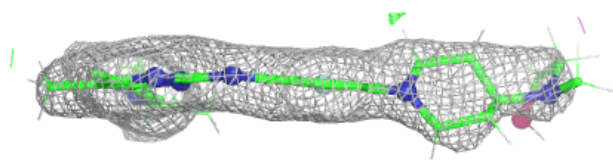
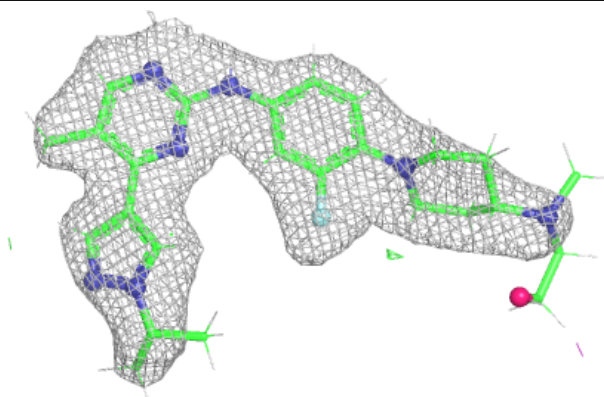
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around 36H A 1000:

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

**Electron density around 36H B 1000:**

$2mF_o-DF_c$ (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.