



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:33 PM UTC

PDB ID : 3E7O / pdb_00003e7o
Title : Crystal Structure of JNK2
Authors : Kuglstatter, A.; Villasenor, A.G.
Deposited on : 2008-08-18
Resolution : 2.14 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

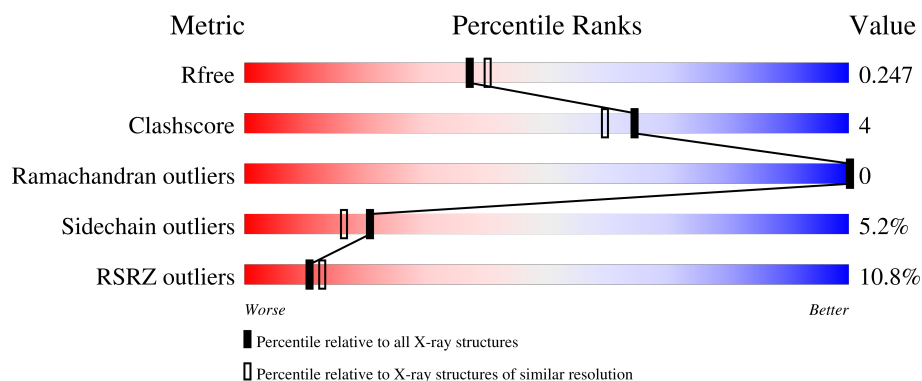
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.14 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	3689 (2.16-2.12)
Clashscore	190562	3812 (2.16-2.12)
Ramachandran outliers	187476	3773 (2.16-2.12)
Sidechain outliers	187428	3772 (2.16-2.12)
RSRZ outliers	180081	3691 (2.16-2.12)

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	360	9% 83% 11% • 5%
1	B	360	11% 80% 9% • 9%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5691 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.

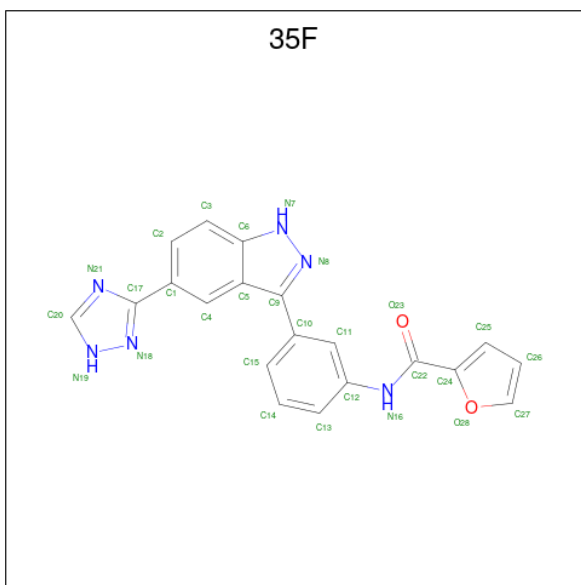
- Molecule 1 is a protein called Mitogen-activated protein kinase 9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	342	Total	C	N	O	S	0	0	0
			2750	1773	461	498	18			
1	B	326	Total	C	N	O	S	0	0	0
			2634	1696	443	479	16			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3	GLY	-	expression tag	UNP P45984
A	4	SER	-	expression tag	UNP P45984
A	5	HIS	-	expression tag	UNP P45984
A	6	MET	-	expression tag	UNP P45984
A	177	SER	CYS	engineered mutation	UNP P45984
A	222	SER	CYS	engineered mutation	UNP P45984
A	250	ALA	LYS	engineered mutation	UNP P45984
A	251	ALA	LYS	engineered mutation	UNP P45984
A	265	ALA	LYS	engineered mutation	UNP P45984
A	270	ALA	LYS	engineered mutation	UNP P45984
B	3	GLY	-	expression tag	UNP P45984
B	4	SER	-	expression tag	UNP P45984
B	5	HIS	-	expression tag	UNP P45984
B	6	MET	-	expression tag	UNP P45984
B	177	SER	CYS	engineered mutation	UNP P45984
B	222	SER	CYS	engineered mutation	UNP P45984
B	250	ALA	LYS	engineered mutation	UNP P45984
B	251	ALA	LYS	engineered mutation	UNP P45984
B	265	ALA	LYS	engineered mutation	UNP P45984
B	270	ALA	LYS	engineered mutation	UNP P45984

- Molecule 2 is N-{3-[5-(1H-1,2,4-triazol-3-yl)-1H-indazol-3-yl]phenyl}furan-2-carboxamide (CCD ID: 35F) (formula: C₂₀H₁₄N₆O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total 28	C 20	N 6	O 2	0	0
2	B	1	Total 28	C 20	N 6	O 2	0	0

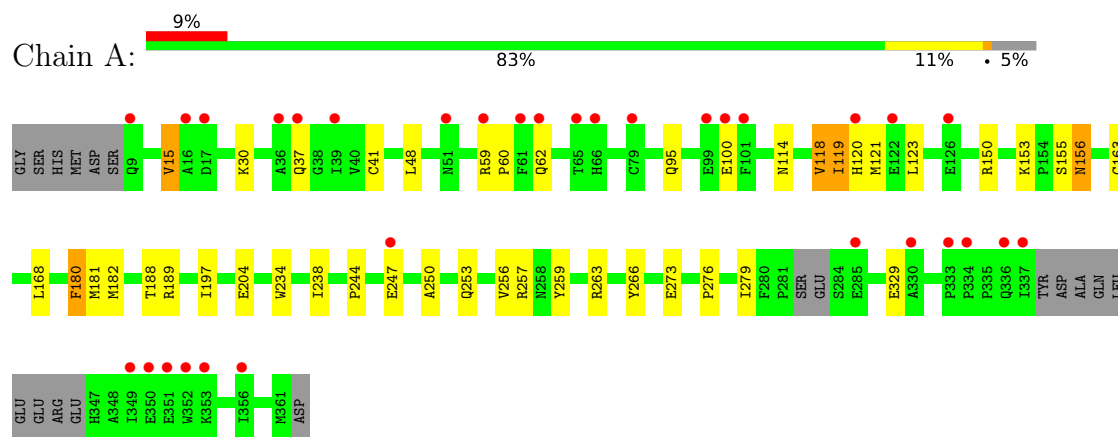
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	138	Total O 138 138	0	0
3	B	113	Total O 113 113	0	0

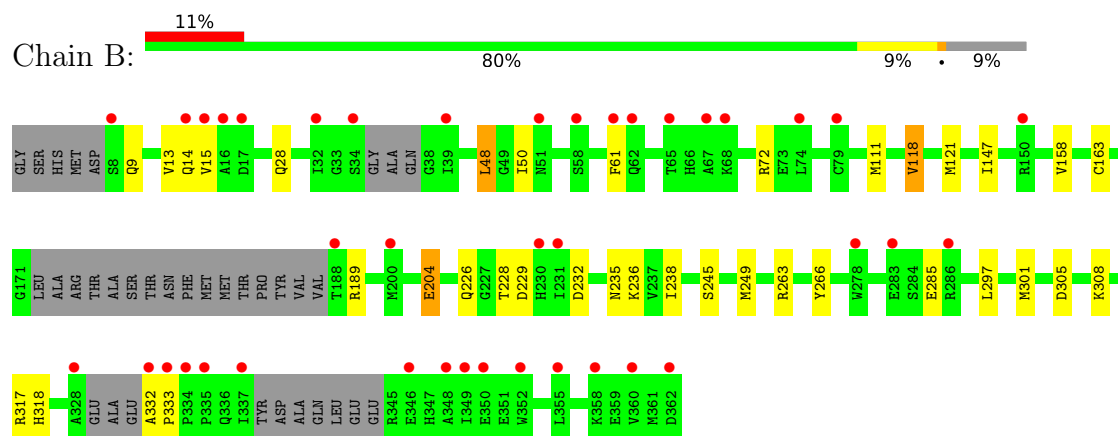
3 Residue-property plots [i](#)

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: Mitogen-activated protein kinase 9



- Molecule 1: Mitogen-activated protein kinase 9



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	161.69Å 78.78Å 78.93Å 90.00° 96.43° 90.00°	Depositor
Resolution (Å)	44.29 – 2.14 44.29 – 2.14	Depositor EDS
% Data completeness (in resolution range)	95.3 (44.29-2.14) 95.3 (44.29-2.14)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	0.11	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.14Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.217 , 0.250 0.215 , 0.247	Depositor DCC
R_{free} test set	2624 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	39.9	Xtriage
Anisotropy	0.139	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 39.4	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	5691	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.29% 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: 35F

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	0.56	0/2813	0.83	0/3814
1	B	0.54	0/2692	0.84	2/3644 (0.1%)
All	All	0.55	0/5505	0.84	2/7458 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	318	HIS	CA-C-N	5.10	125.13	119.32
1	B	318	HIS	C-N-CA	5.10	125.13	119.32

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	2750	0	2767	25	0
1	B	2634	0	2644	17	0
2	A	28	0	14	0	0
2	B	28	0	14	0	0
3	A	138	0	0	1	0
3	B	113	0	0	1	0
All	All	5691	0	5439	42	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 (42) 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:238:ILE:HG22	1:B:266:TYR:CD2	2.19	0.78
1:B:238:ILE:HG22	1:B:266:TYR:HD2	1.56	0.70
1:A:153:LYS:H	1:A:156:ASN:HD21	1.40	0.67
1:A:118:VAL:HB	1:A:121:MET:HE2	1.78	0.66
1:B:297:LEU:HD11	1:B:301:MET:HE3	1.79	0.65
1:A:95:GLN:HB3	1:A:100:GLU:HB3	1.84	0.59
1:A:234:TRP:CZ2	1:A:238:ILE:HD11	2.39	0.58
1:B:305:ASP:HB3	1:B:308:LYS:HE2	1.88	0.56
1:A:59:ARG:HG2	1:A:62:GLN:HB3	1.88	0.55
1:A:121:MET:HE3	1:A:123:LEU:HD21	1.90	0.54
1:A:15:VAL:HG11	1:A:41:CYS:SG	2.50	0.51
1:A:276:PRO:O	1:A:279:ILE:HG12	2.11	0.51
1:B:48:LEU:HB3	1:B:50:ILE:HG12	1.93	0.49
1:B:238:ILE:CG2	1:B:266:TYR:HD2	2.23	0.49
1:B:118:VAL:O	1:B:121:MET:HG2	2.13	0.48
1:A:182:MET:HE1	1:A:259:TYR:CB	2.44	0.48
1:B:118:VAL:HA	1:B:121:MET:HE3	1.95	0.48
1:B:308:LYS:HE3	3:B:527:HOH:O	2.14	0.48
1:A:181:MET:HB3	1:A:197:ILE:HG23	1.97	0.47
1:A:250:ALA:HA	1:A:257:ARG:HE	1.79	0.47
1:B:245:SER:O	1:B:249:MET:HG2	2.15	0.46
1:B:111:MET:HG3	1:B:158:VAL:CG2	2.47	0.44
1:B:232:ASP:HA	1:B:235:ASN:HD22	1.82	0.44
1:A:247:GLU:H	1:A:247:GLU:CD	2.25	0.44
1:B:226:GLN:O	1:B:236:LYS:HE2	2.17	0.43
1:B:189:ARG:HD2	1:B:229:ASP:C	2.42	0.43
1:A:180:PHE:CE2	1:A:182:MET:HB2	2.53	0.43
1:A:181:MET:HE3	1:A:182:MET:HE2	1.99	0.43
1:A:181:MET:HE2	1:A:256:VAL:HG13	1.99	0.43
1:A:114:ASN:OD1	1:A:155:SER:HA	2.18	0.42
1:A:153:LYS:O	1:A:156:ASN:ND2	2.52	0.42
1:B:72:ARG:HH22	1:B:147:ILE:HG23	1.84	0.42
1:B:204:GLU:H	1:B:204:GLU:HG2	1.60	0.42
1:A:253:GLN:NE2	3:A:367:HOH:O	2.52	0.42
1:A:238:ILE:CD1	1:A:244:PRO:HD3	2.50	0.42
1:A:180:PHE:C	1:A:180:PHE:CD2	2.98	0.41
1:A:119:ILE:O	1:A:120:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:ALA:HB1	1:A:257:ARG:HH21	1.86	0.41
1:A:238:ILE:HG22	1:A:266:TYR:CD2	2.55	0.40
1:B:332:ALA:HA	1:B:333:PRO:HD3	1.91	0.40
1:A:59:ARG:HA	1:A:60:PRO:HD2	1.96	0.40
1:A:238:ILE:HG22	1:A:266:TYR:HD2	1.85	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	336/360 (93%)	324 (96%)	12 (4%)	0	100	100
1	B	316/360 (88%)	306 (97%)	10 (3%)	0	100	100
All	All	652/720 (91%)	630 (97%)	22 (3%)	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	303/320 (95%)	286 (94%)	17 (6%)	19	14
1	B	292/320 (91%)	278 (95%)	14 (5%)	23	18
All	All	595/640 (93%)	564 (95%)	31 (5%)	21	16

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	VAL
1	A	30	LYS
1	A	37	GLN
1	A	48	LEU
1	A	118	VAL
1	A	119	ILE
1	A	150	ARG
1	A	156	ASN
1	A	163	CYS
1	A	168	LEU
1	A	180	PHE
1	A	188	THR
1	A	189	ARG
1	A	204	GLU
1	A	263	ARG
1	A	273	GLU
1	A	329	GLU
1	B	9	GLN
1	B	13	VAL
1	B	14	GLN
1	B	15	VAL
1	B	28	GLN
1	B	48	LEU
1	B	61	PHE
1	B	118	VAL
1	B	163	CYS
1	B	204	GLU
1	B	228	THR
1	B	263	ARG
1	B	285	GLU
1	B	317	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	62	GLN
1	A	141	HIS
1	A	156	ASN
1	A	253	GLN
1	B	14	GLN
1	B	28	GLN

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Mol	Chain	Res	Type
1	B	258	ASN

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	35F	B	2	-	32,32,32	1.92	7 (21%)	44,45,45	2.19	12 (27%)
2	35F	A	1	-	32,32,32	1.97	9 (28%)	44,45,45	2.12	16 (36%)

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	35F	B	2	-	-	0/16/16/16	0/5/5/5
2	35F	A	1	-	-	0/16/16/16	0/5/5/5

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1	35F	C24-C22	-6.96	1.33	1.47
2	B	2	35F	C24-C22	-6.63	1.34	1.47
2	B	2	35F	O28-C24	3.77	1.44	1.37
2	A	1	35F	O28-C24	3.37	1.44	1.37
2	A	1	35F	C5-C9	-3.32	1.39	1.47
2	B	2	35F	C5-C9	-3.24	1.39	1.47
2	A	1	35F	C26-C25	-3.04	1.27	1.42
2	B	2	35F	C26-C25	-3.03	1.27	1.42
2	A	1	35F	C9-N8	2.63	1.35	1.33
2	A	1	35F	C12-N16	-2.55	1.36	1.41
2	B	2	35F	C12-N16	-2.48	1.36	1.41
2	B	2	35F	O28-C27	2.45	1.45	1.37
2	A	1	35F	N19-N18	2.42	1.40	1.36
2	A	1	35F	O28-C27	2.33	1.45	1.37
2	B	2	35F	N19-N18	2.25	1.40	1.36
2	A	1	35F	C17-N18	2.15	1.35	1.32

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	35F	C5-C9-N8	-6.86	106.44	110.36
2	A	1	35F	C5-C9-N8	-6.16	106.84	110.36
2	A	1	35F	C6-N7-N8	-5.20	108.04	111.90
2	B	2	35F	C6-N7-N8	-4.81	108.33	111.90
2	B	2	35F	C20-N21-C17	4.16	109.46	102.86
2	A	1	35F	C25-C26-C27	4.12	113.86	106.94
2	B	2	35F	C25-C26-C27	4.05	113.74	106.94
2	B	2	35F	C15-C10-C9	3.85	125.39	120.64
2	A	1	35F	C20-N21-C17	3.57	108.53	102.86
2	B	2	35F	O28-C24-C22	3.56	126.74	117.98
2	A	1	35F	O28-C24-C22	3.13	125.67	117.98
2	A	1	35F	C15-C10-C9	3.06	124.42	120.64
2	B	2	35F	C11-C10-C9	-2.98	115.61	120.34
2	A	1	35F	C11-C10-C9	-2.83	115.86	120.34
2	B	2	35F	N18-C17-N21	-2.81	107.91	114.10
2	A	1	35F	C27-O28-C24	-2.75	101.77	105.99
2	B	2	35F	C27-O28-C24	-2.52	102.12	105.99
2	B	2	35F	C26-C25-C24	2.49	110.44	106.52
2	B	2	35F	O28-C24-C25	-2.45	106.34	109.96
2	A	1	35F	N18-C17-N21	-2.33	108.97	114.10
2	B	2	35F	C25-C24-C22	-2.23	126.91	132.04
2	A	1	35F	C3-C6-C5	-2.21	120.05	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	35F	C10-C9-N8	2.19	124.15	119.66
2	A	1	35F	C5-C6-N7	2.10	108.10	106.59
2	A	1	35F	C26-C25-C24	2.09	109.80	106.52
2	A	1	35F	C2-C1-C17	-2.05	118.19	120.78
2	A	1	35F	O28-C24-C25	-2.03	106.97	109.96
2	A	1	35F	C25-C24-C22	-2.03	127.36	132.04

There are no chirality outliers.

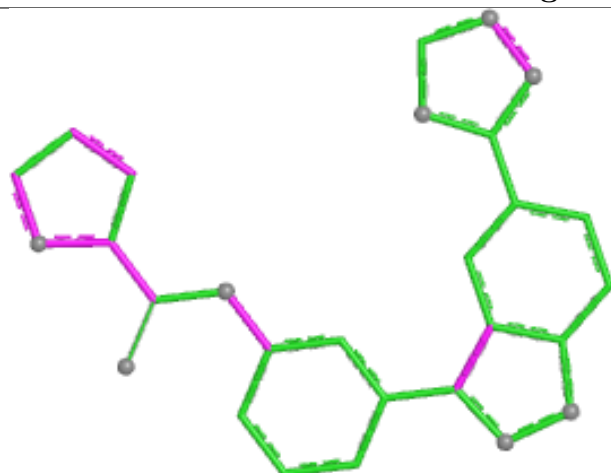
There are no torsion outliers.

There are no ring outliers.

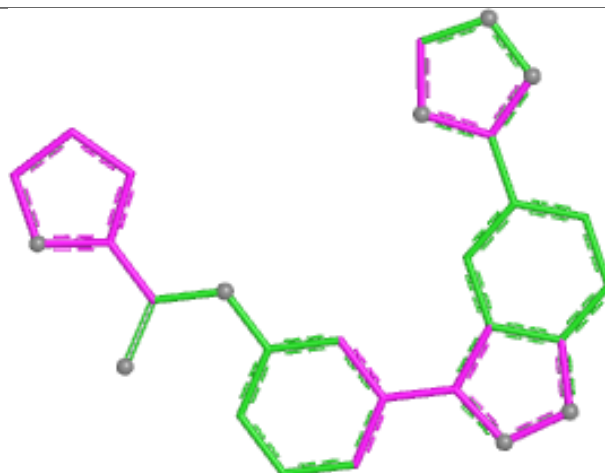
No monomer is involved in short contacts.

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.

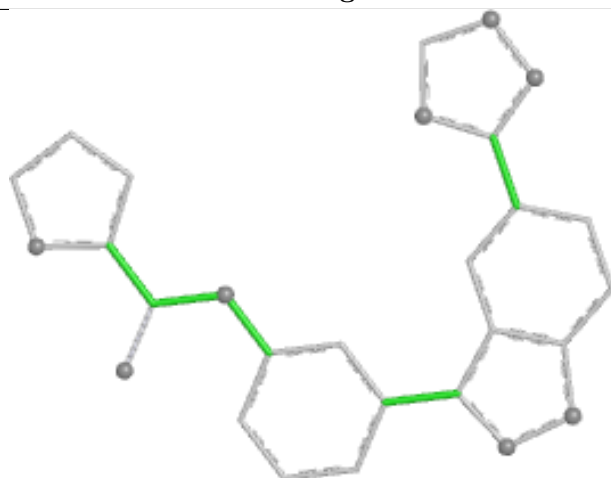
Ligand 35F B 2



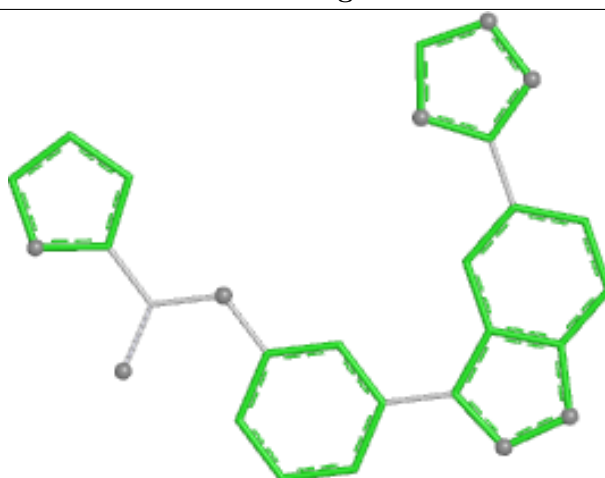
Bond lengths



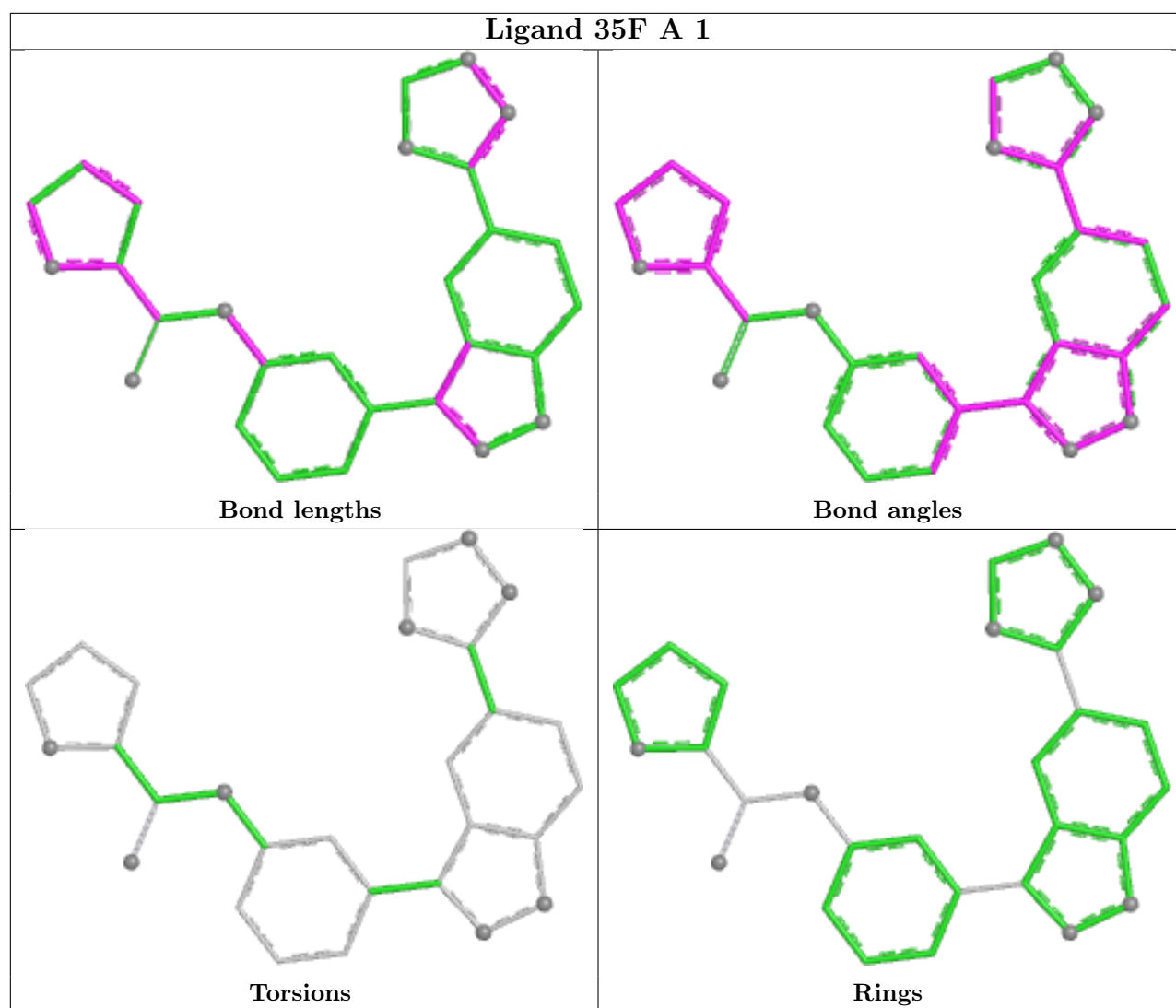
Bond angles



Torsions



Rings



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	342/360 (95%)	0.53	32 (9%) 14 16	27, 39, 67, 77	0
1	B	326/360 (90%)	0.75	40 (12%) 8 10	26, 41, 72, 113	0
All	All	668/720 (92%)	0.64	72 (10%) 11 13	26, 40, 69, 113	0

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	337	ILE	7.1
1	B	8	SER	5.5
1	B	332	ALA	5.1
1	A	349	ILE	4.7
1	B	349	ILE	4.7
1	A	337	ILE	4.3
1	B	58	SER	4.0
1	A	61	PHE	3.9
1	A	16	ALA	3.8
1	A	120	HIS	3.8
1	B	333	PRO	3.8
1	B	231	ILE	3.6
1	B	334	PRO	3.5
1	A	36	ALA	3.4
1	A	62	GLN	3.2
1	B	61	PHE	3.2
1	A	350	GLU	3.0
1	A	352	TRP	3.0
1	B	15	VAL	3.0
1	B	68	LYS	2.9
1	B	188	THR	2.9
1	A	79	CYS	2.8
1	B	335	PRO	2.8
1	A	37	GLN	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	59	ARG	2.8
1	B	67	ALA	2.8
1	A	334	PRO	2.7
1	B	14	GLN	2.7
1	B	328	ALA	2.7
1	A	101	PHE	2.6
1	A	285	GLU	2.6
1	B	230	HIS	2.5
1	B	65	THR	2.5
1	B	200	MET	2.5
1	B	39	ILE	2.5
1	B	360	VAL	2.5
1	B	348	ALA	2.5
1	B	352	TRP	2.5
1	A	17	ASP	2.4
1	A	65	THR	2.4
1	A	351	GLU	2.4
1	B	17	ASP	2.4
1	A	353	LYS	2.4
1	A	100	GLU	2.4
1	A	333	PRO	2.4
1	A	247	GLU	2.3
1	B	51	ASN	2.3
1	B	74	LEU	2.3
1	B	362	ASP	2.3
1	B	278	TRP	2.3
1	A	66	HIS	2.2
1	B	283	GLU	2.2
1	B	32	ILE	2.2
1	A	122	GLU	2.2
1	B	350	GLU	2.2
1	B	34	SER	2.2
1	B	16	ALA	2.2
1	A	99	GLU	2.1
1	A	126	GLU	2.1
1	B	346	GLU	2.1
1	B	286	ARG	2.1
1	A	330	ALA	2.1
1	B	62	GLN	2.1
1	B	150	ARG	2.1
1	B	355	LEU	2.0
1	A	51	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	39	ILE	2.0
1	A	356	ILE	2.0
1	A	9	GLN	2.0
1	A	336	GLN	2.0
1	B	79	CYS	2.0
1	B	358	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](#)

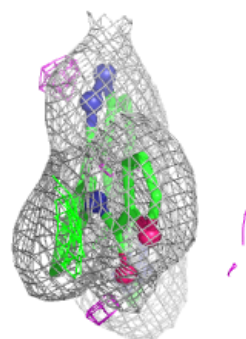
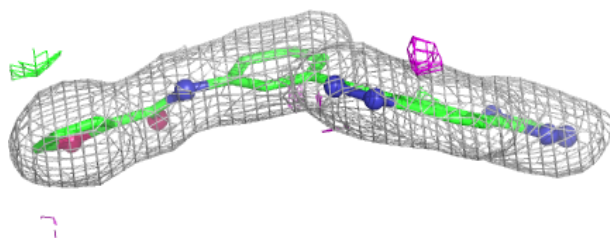
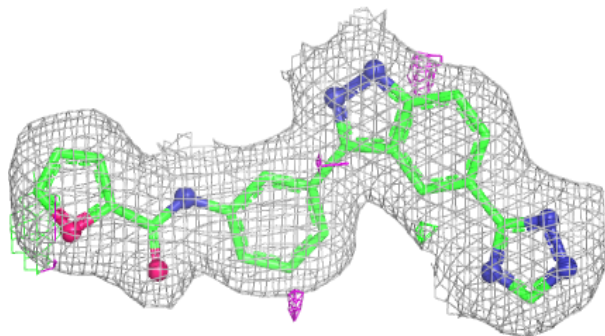
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	35F	A	1	28/28	0.95	0.07	30,31,38,40	0
2	35F	B	2	28/28	0.95	0.07	30,33,37,38	0

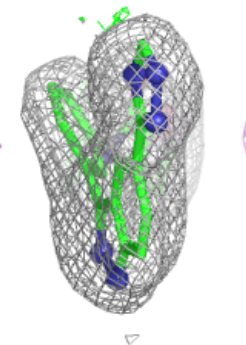
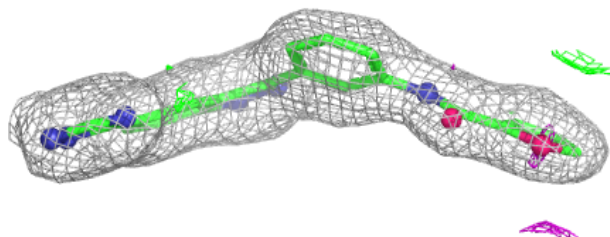
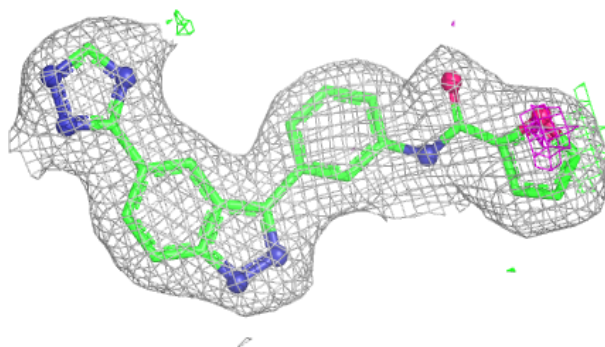
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around 35F A 1:

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

**Electron density around 35F B 2:**

$2mF_o-DF_c$ (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.