Full wwPDB X-ray Structure Validation Report (i)

Dec 4, 2025 – 01:56 pm GMT

PDB ID : 9TFJ / pdb_00009tfj
Title : KIT kinase domain in complex with a 6,7-dimethoxyquinazoline-based compound (34)
Deposited on : 2025-11-27
Resolution : 1.75 Å(reported)

This wwPDB validation report is for manuscript review

This is a Full wwPDB X-ray Structure Validation Report.

This report is produced by the wwPDB biocuration pipeline after annotation of the structure.

The following versions of software and data (see references (i)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
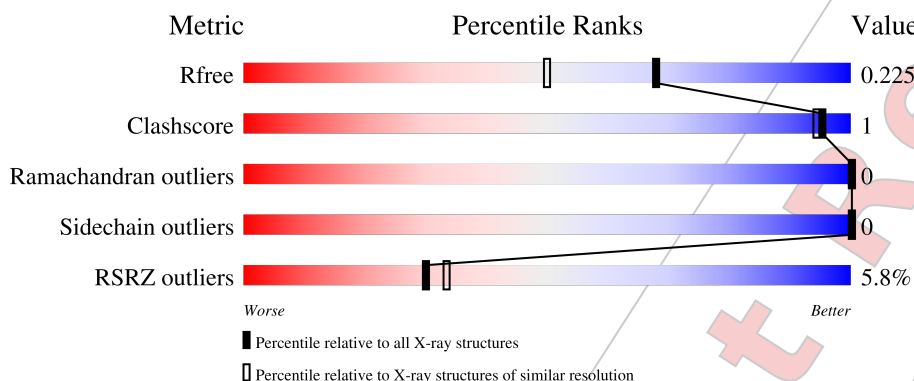Ideal geometry (proteins) : Engh & Huber (2001)

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 1.75 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	Percentile Ranks	Value
Rfree		0.225
Clashscore		1
Ramachandran outliers		0
Sidechain outliers		0
RSRZ outliers		5.8%

Worse — *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	2888 (1.76-1.76)
Clashscore	180529	3097 (1.76-1.76)
Ramachandran outliers	177936	3072 (1.76-1.76)
Sidechain outliers	177891	3072 (1.76-1.76)
RSRZ outliers	164620	2887 (1.76-1.76)

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 <=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	327	5% / 90% / · / 8%
1	B	327	6% / 88% / · / 9%

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.46

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 5223 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 Mast/stem cell growth factor receptor Kit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	301	Total 2384	C 1536	N 391	O 439	S 18	0	7	0
1	B	299	Total 2348	C 1511	N 387	O 433	S 17	0	8	0

There are 70 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	548	GLY	-	expression tag	UNP P10721
A	549	SER	-	expression tag	UNP P10721
A	550	MET	-	expression tag	UNP P10721
A	563	SER	ILE	engineered mutation	UNP P10721
A	569	SER	VAL	engineered mutation	UNP P10721
A	609	GLN	TYR	engineered mutation	UNP P10721
A	631	SER	LEU	engineered mutation	UNP P10721
A	651	GLU	MET	engineered mutation	UNP P10721
A	662	HIS	ILE	engineered mutation	UNP P10721
A	688	GLU	-	linker	UNP P10721
A	689	PHE	-	linker	UNP P10721
A	690	VAL	-	linker	UNP P10721
A	691	PRO	-	linker	UNP P10721
A	692	TYR	-	linker	UNP P10721
A	693	LYS	-	linker	UNP P10721
A	754	VAL	-	linker	UNP P10721
A	755	ALA	-	linker	UNP P10721
A	756	PRO	-	linker	UNP P10721
A	757	GLU	-	linker	UNP P10721
A	758	ASP	-	linker	UNP P10721
A	759	LEU	-	linker	UNP P10721
A	760	TYR	-	linker	UNP P10721
A	761	LYS	-	linker	UNP P10721
A	762	ASP	-	linker	UNP P10721
A	763	PHE	-	linker	UNP P10721

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Chain	Residue	Modelled	Actual	Comment	Reference
A	764	LEU	-	linker	UNP P10721
A	765	THR	-	linker	UNP P10721
A	768	HIS	ASP	engineered mutation	UNP P10721
A	804	ASN	ARG	engineered mutation	UNP P10721
A	825	ASP	VAL	engineered mutation	UNP P10721
A	844	SER	CYS	engineered mutation	UNP P10721
A	890	SER	LEU	engineered mutation	UNP P10721
A	894	TYR	HIS	engineered mutation	UNP P10721
A	912	ASP	LEU	engineered mutation	UNP P10721
A	923	ASP	LEU	engineered mutation	UNP P10721
B	548	GLY	-	expression tag	UNP P10721
B	549	SER	-	expression tag	UNP P10721
B	550	MET	-	expression tag	UNP P10721
B	563	SER	ILE	engineered mutation	UNP P10721
B	569	SER	VAL	engineered mutation	UNP P10721
B	609	GLN	TYR	engineered mutation	UNP P10721
B	631	SER	LEU	engineered mutation	UNP P10721
B	651	GLU	MET	engineered mutation	UNP P10721
B	662	HIS	ILE	engineered mutation	UNP P10721
B	688	GLU	-	linker	UNP P10721
B	689	PHE	-	linker	UNP P10721
B	690	VAL	-	linker	UNP P10721
B	691	PRO	-	linker	UNP P10721
B	692	TYR	-	linker	UNP P10721
B	693	LYS	-	linker	UNP P10721
B	754	VAL	-	linker	UNP P10721
B	755	ALA	-	linker	UNP P10721
B	756	PRO	-	linker	UNP P10721
B	757	GLU	-	linker	UNP P10721
B	758	ASP	-	linker	UNP P10721
B	759	LEU	-	linker	UNP P10721
B	760	TYR	-	linker	UNP P10721
B	761	LYS	-	linker	UNP P10721
B	762	ASP	-	linker	UNP P10721
B	763	PHE	-	linker	UNP P10721
B	764	LEU	-	linker	UNP P10721
B	765	THR	-	linker	UNP P10721
B	768	HIS	ASP	engineered mutation	UNP P10721
B	804	ASN	ARG	engineered mutation	UNP P10721
B	825	ASP	VAL	engineered mutation	UNP P10721
B	844	SER	CYS	engineered mutation	UNP P10721
B	890	SER	LEU	engineered mutation	UNP P10721

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Chain	Residue	Modelled	Actual	Comment	Reference
B	894	TYR	HIS	engineered mutation	UNP P10721
B	912	ASP	LEU	engineered mutation	UNP P10721
B	923	ASP	LEU	engineered mutation	UNP P10721

- Molecule 2 is 6,7-dimethoxy-4-[4-[5-(phenylmethyl)pyrimidin-2-yl]piperazin-1-yl]quinazoline (CCD ID: A1JVZ) (formula: $C_{25}H_{26}N_6O_2$) (labeled as "Ligand of Interest" by depositor).

A1JVZ
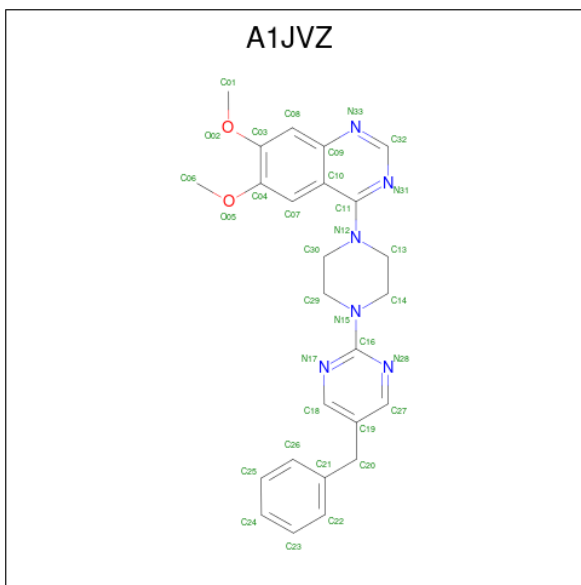
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total 33	C 25	N 6	O 2	0	0
2	B	1	Total 33	C 25	N 6	O 2	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	222	Total 222	O 222	0	0
3	B	203	Total 203	O 203	0	0

3 Residue-property plots ⓘ

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: Mast/stem cell growth factor receptor Kit

• Molecule 1: Mast/stem cell growth factor receptor Kit

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	58.31Å 58.94Å 193.59Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.52 – 1.75 43.52 – 1.75	Depositor EDS
% Data completeness (in resolution range)	98.0 (43.52-1.75) 98.0 (43.52-1.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.34 (at 1.75Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.185 , 0.225 0.185 , 0.225	Depositor DCC
R_{free} test set	3348 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	32.9	Xtriage
Anisotropy	0.578	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 34.3	EDS
L-test for twinning [2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.022 for k,h,-l	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	5223	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 5.83% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: A1JVZ

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	0.25	0/2467	0.43	0/3344
1	B	0.27	0/2433	0.48	0/3301
All	All	0.26	0/4900	0.45	0/6645

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	2384	0	2312	3	0
1	B	2348	0	2266	7	0
2	A	33	0	0	0	0
2	B	33	0	0	0	0
3	A	222	0	0	0	0
3	B	203	0	0	1	0
All	All	5223	0	4578	10	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 1.

All (10) 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:926:LYS:O	1:A:930:GLU:HG3	2.05	0.56
1:B:926:LYS:NZ	1:B:930:GLU:OE2	2.40	0.54
1:B:690:VAL:O	1:B:765:THR:HA	2.17	0.43
1:A:892:PRO:HG2	1:A:895:ALA:HB2	2.00	0.43
1:B:873:MET:HE1	1:B:887:PHE:CE2	2.54	0.43
1:B:873:MET:CE	1:B:882:MET:HE1	2.49	0.42
1:A:584:PHE:CE1	1:A:611:LEU:HA	2.56	0.41
1:B:584:PHE:CD1	1:B:585:PRO:HD2	2.56	0.41
1:B:882:MET:HB2	1:B:882:MET:HE2	1.80	0.40
1:B:904:LYS:NZ	3:B:1109:HOH:O	2.52	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	304/327 (93%)	297 (98%)	7 (2%)	0	100	100
1	B	303/327 (93%)	297 (98%)	6 (2%)	0	100	100
All	All	607/654 (93%)	594 (98%)	13 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	255/285 (90%)	255 (100%)	0	100	100
1	B	249/285 (87%)	249 (100%)	0	100	100
All	All	504/570 (88%)	504 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	680	ASN
1	A	787	ASN
1	A	822	ASN
1	B	567	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	A1JVZ	A	1001	-	37,37,37	1.31	5 (13%)	49,51,51	1.85	10 (20%)
2	A1JVZ	B	1001	-	37,37,37	1.29	7 (18%)	49,51,51	1.71	9 (18%)

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	A1JVZ	A	1001	-	-	2/16/26/26	0/5/5/5
2	A1JVZ	B	1001	-	-	1/16/26/26	0/5/5/5

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	A1JVZ	C32-N31	3.00	1.39	1.33
2	B	1001	A1JVZ	C10-C09	-2.79	1.37	1.42
2	B	1001	A1JVZ	O05-C04	2.70	1.41	1.37
2	A	1001	A1JVZ	C10-C09	-2.62	1.38	1.42
2	A	1001	A1JVZ	C32-N33	2.56	1.36	1.32
2	B	1001	A1JVZ	C07-C10	2.46	1.47	1.42
2	B	1001	A1JVZ	C32-N31	2.38	1.38	1.33
2	A	1001	A1JVZ	C16-N28	2.37	1.38	1.34
2	B	1001	A1JVZ	C32-N33	2.10	1.35	1.32
2	A	1001	A1JVZ	O05-C04	2.09	1.40	1.37
2	B	1001	A1JVZ	C16-N28	2.04	1.38	1.34
2	B	1001	A1JVZ	C08-C03	2.02	1.40	1.36

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	1001	A1JVZ	O05-C04-C07	-6.41	116.96	125.24
2	B	1001	A1JVZ	O05-C04-C07	-5.75	117.80	125.24
2	A	1001	A1JVZ	O05-C04-C03	4.07	121.08	115.41
2	B	1001	A1JVZ	O05-C04-C03	3.86	120.79	115.41
2	A	1001	A1JVZ	O02-C03-C08	-3.64	120.53	125.24
2	B	1001	A1JVZ	O02-C03-C08	-3.40	120.84	125.24
2	B	1001	A1JVZ	N17-C16-N15	3.35	120.53	116.90
2	A	1001	A1JVZ	N28-C16-N17	-3.25	121.57	127.06
2	A	1001	A1JVZ	N17-C16-N15	3.11	120.27	116.90
2	B	1001	A1JVZ	N28-C16-N17	-3.06	121.90	127.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1001	A1JVZ	N33-C32-N31	-2.97	124.03	128.68
2	A	1001	A1JVZ	N33-C32-N31	-2.97	124.04	128.68
2	A	1001	A1JVZ	C18-N17-C16	2.95	118.25	115.64
2	A	1001	A1JVZ	C27-N28-C16	2.70	118.03	115.64
2	B	1001	A1JVZ	C27-N28-C16	2.45	117.81	115.64
2	A	1001	A1JVZ	O02-C03-C04	2.39	118.74	115.41
2	B	1001	A1JVZ	C18-N17-C16	2.39	117.75	115.64
2	A	1001	A1JVZ	C07-C10-C11	-2.10	122.74	124.94
2	B	1001	A1JVZ	C29-N15-C14	2.02	115.97	111.52

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1001	A1JVZ	C04-C03-O02-C01
2	A	1001	A1JVZ	C08-C03-O02-C01
2	B	1001	A1JVZ	C04-C03-O02-C01

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 then 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 A1JVZ A 1001

Bond lengths

Bond angles

Torsions

Rings

Ligand A1JVZ B 1001

Bond lengths

Bond angles

Torsions

Rings
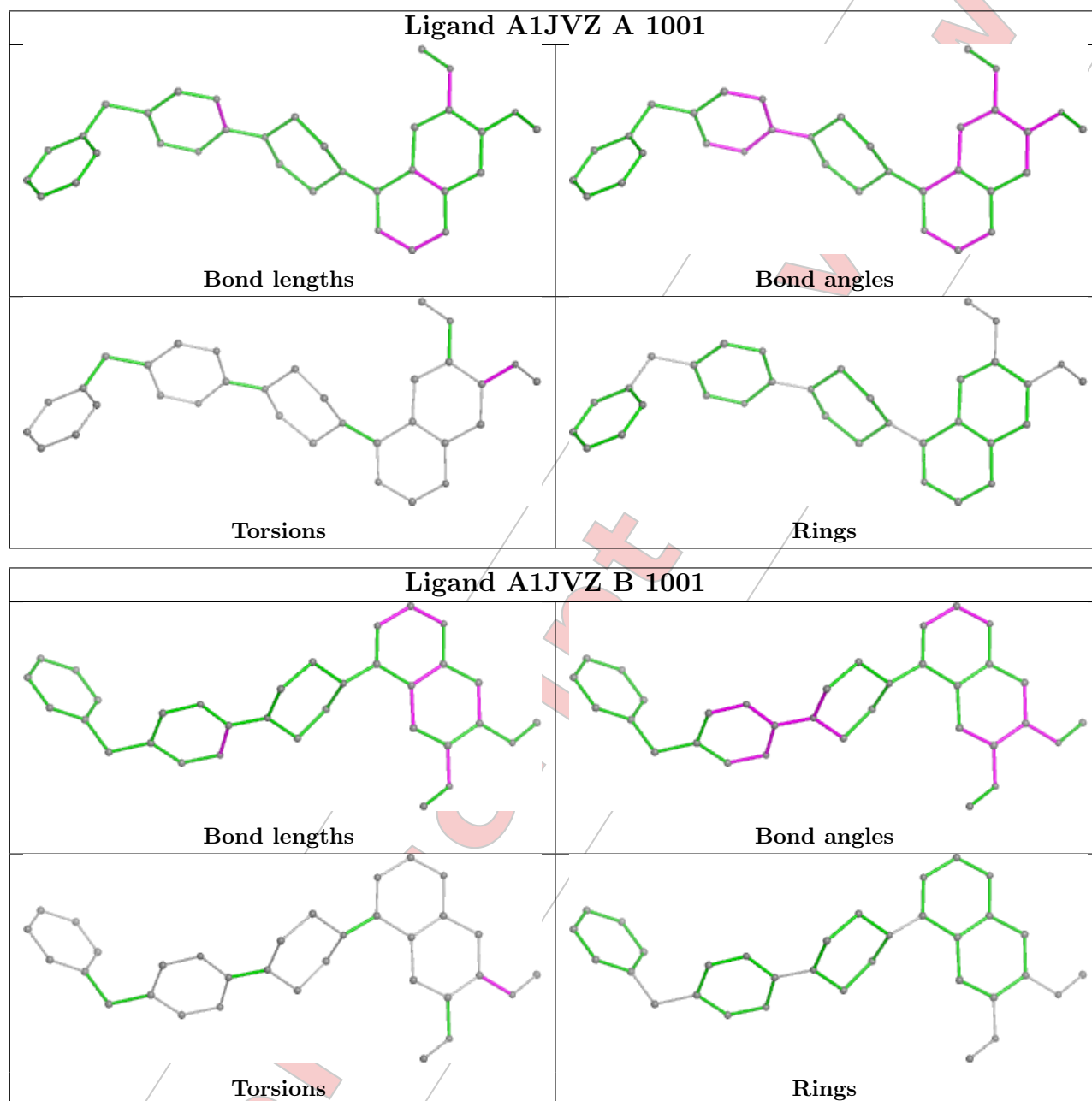
5.7 Other polymers (i)

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(Å²)	Q<0.9
1	A	301/327 (92%)	0.28	16 (5%)	33	36	23, 40, 72, 94	7 (2%)
1	B	299/327 (91%)	0.28	19 (6%)	27	30	23, 39, 69, 83	8 (2%)
All	All	600/654 (91%)	0.28	35 (5%)	30	33	23, 40, 71, 94	15 (2%)

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	615	ASP	4.0
1	A	759	LEU	3.9
1	B	613	LYS	3.7
1	A	692	TYR	3.6
1	A	760	TYR	3.6
1	B	612	ILE	3.2
1	A	820	ASP	3.2
1	B	819	ASN	3.1
1	B	566	ASN	3.0
1	B	763	PHE	3.0
1	B	820	ASP	3.0
1	A	827	GLY	2.8
1	B	932	THR	2.8
1	A	824	VAL	2.8
1	A	931	SER	2.8
1	A	819	ASN	2.7
1	B	817	ILE	2.7
1	A	823	TYR	2.6
1	B	616	ALA	2.5
1	B	762	ASP	2.5
1	B	828	ASN	2.5
1	A	828	ASN	2.5
1	B	617	ALA	2.4
1	A	570	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	817	ILE	2.3
1	B	600	PHE	2.2
1	B	646	TYR	2.2
1	A	826	LYS	2.2
1	B	693	LYS	2.2
1	A	598	GLY	2.2
1	A	599	ALA	2.1
1	B	614	SER	2.1
1	B	826	LYS	2.1
1	A	822	ASN	2.1
1	B	823	TYR	2.1

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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	A1JVZ	A	1001	33/33	0.96	0.07	32,36,41,43	0
2	A1JVZ	B	1001	33/33	0.96	0.07	29,35,39,40	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.
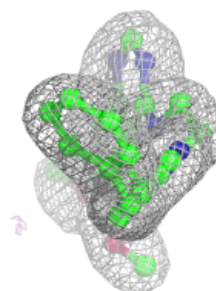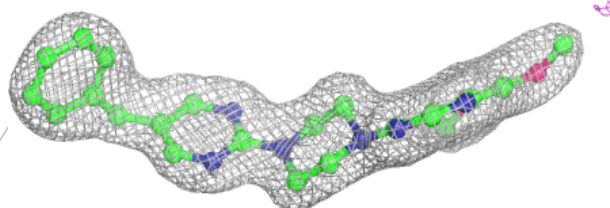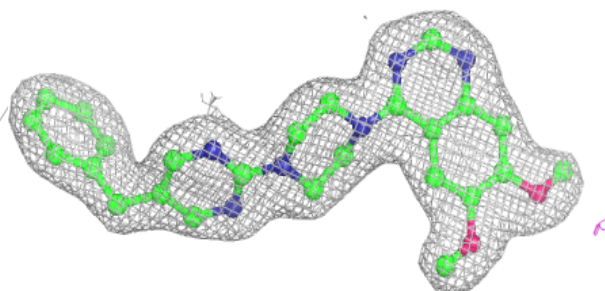
Electron density around A1JVZ A 1001:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
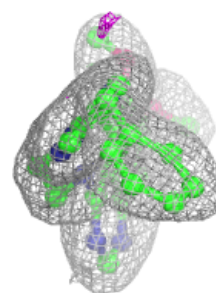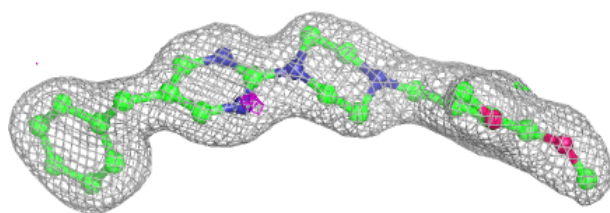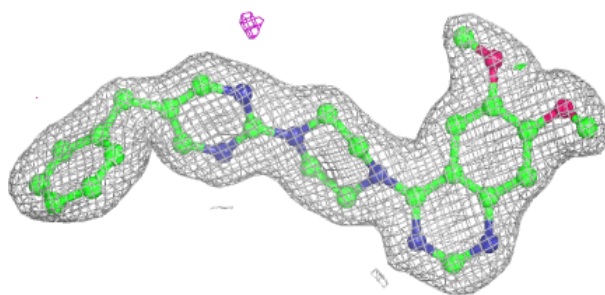
Electron density around A1JVZ B 1001:

$2mF_o$-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.