Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 05:02 am BST

PDB ID	:	6ITT
Title	:	Crystal structure of unactivated c-KIT in complex with compound
Authors	:	Wu, T.S.; Wu, S.Y.
Deposited on	:	2018-11-26
Resolution	:	2.10 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 following versions of software and data (see references ⓘ) were used in the production of this report:

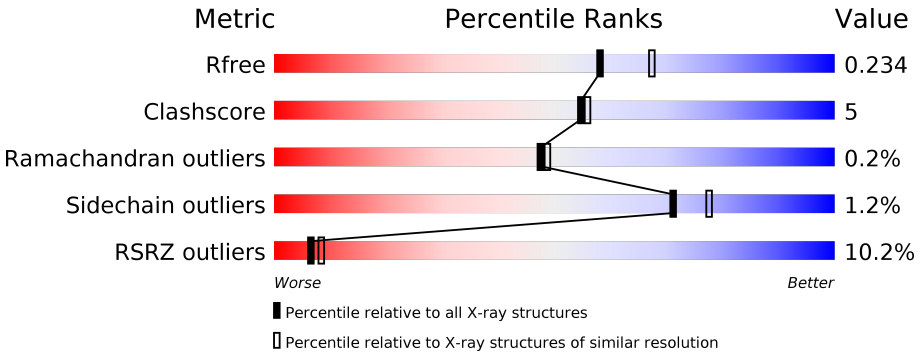
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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 on 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	331	10% 78% 13% 9%
1	B	331	8% 79% 11% 10%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5066 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.

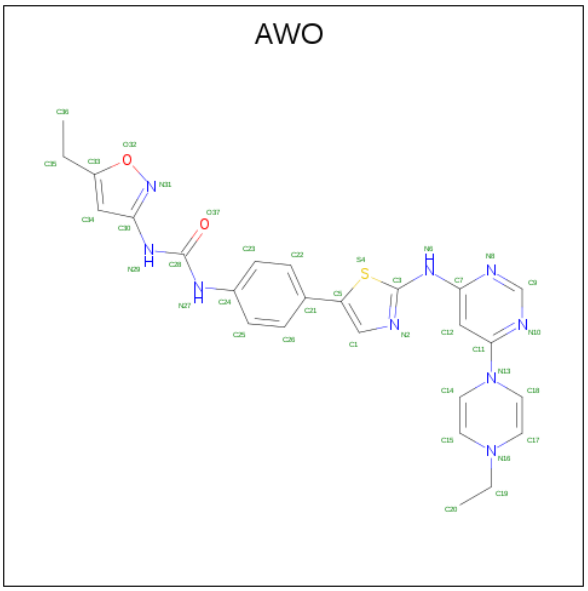
- Molecule 1 is a protein called Mast/stem cell growth factor receptor Kit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	301	Total	C	N	O	S	0	0	0
			2390	1537	397	438	18			
1	B	297	Total	C	N	O	S	0	1	0
			2367	1525	392	430	20			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	752	THR	-	linker	UNP P10721
A	753	SER	-	linker	UNP P10721
B	752	THR	-	linker	UNP P10721
B	753	SER	-	linker	UNP P10721

- Molecule 2 is N-(5-ethyl-1,2-oxazol-3-yl)-N'-[4-(2-{[6-(4-ethylpyrazin-1(4H)-yl)pyrimidin-4-yl]amino}-1,3-thiazol-5-yl)phenyl]urea (three-letter code: AWO) (formula: $C_{25}H_{25}N_9O_2S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			37	25	9	2	1		
2	B	1	Total	C	N	O	S	0	0
			37	25	9	2	1		

- Molecule 3 is water.

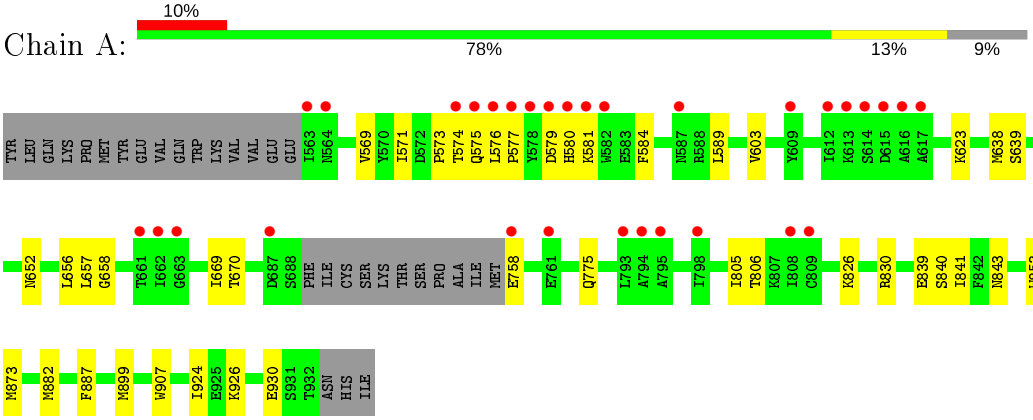
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	126	Total	O	0	0
			126	126		
3	B	109	Total	O	0	0
			109	109		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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.

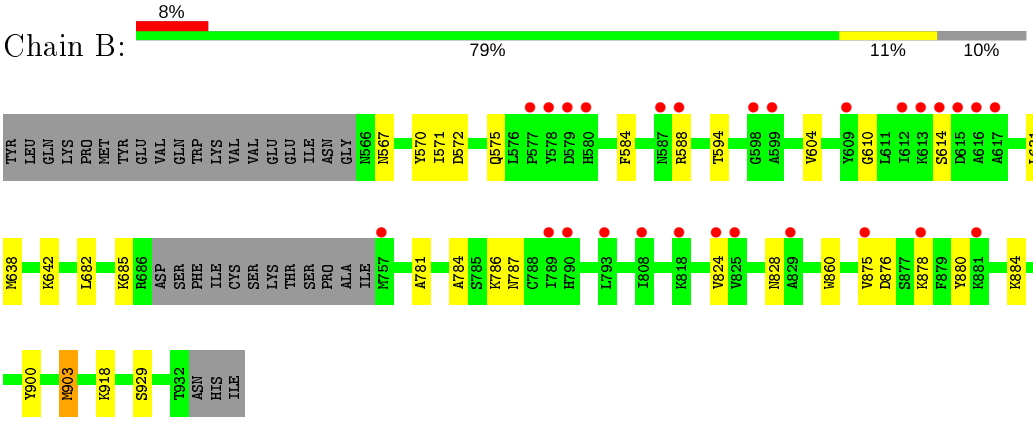
- Molecule 1: Mast/stem cell growth factor receptor Kit

Chain A:



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

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	62.63Å 63.09Å 196.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.43 – 2.10 28.43 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.3 (28.43-2.10) 94.8 (28.43-2.10)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.13 (at 2.10Å)	Xtriage
Refinement program	PHENIX dev_2621	Depositor
R, R_{free}	0.186 , 0.235 0.186 , 0.234	Depositor DCC
R_{free} test set	2011 reflections (4.38%)	wwPDB-VP
Wilson B-factor (Å^2)	34.6	Xtriage
Anisotropy	0.227	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 54.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.028 for k,h,-l	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5066	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 4.24% of the height of the origin peak. No significant pseudotranslation is detected.*

[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: AWO

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	0.44	0/2446	0.59	0/3308
1	B	0.41	0/2426	0.58	2/3280 (0.1%)
All	All	0.42	0/4872	0.58	2/6588 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	571	ILE	C-N-CA	-7.31	103.44	121.70
1	B	903	MET	CB-CG-SD	-5.50	95.90	112.40

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	2390	0	2384	26	0
1	B	2367	0	2369	24	0
2	A	37	0	0	0	0
2	B	37	0	0	0	0
3	A	126	0	0	1	0
3	B	109	0	0	2	0
All	All	5066	0	4753	50	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 (50) 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:567:ASN:HD22	1:B:787:ASN:HD21	1.31	0.79
1:B:784:ALA:HB3	3:B:1103:HOH:O	1.89	0.71
1:A:573:PRO:HB2	1:A:639:SER:HB3	1.73	0.70
1:A:775:GLN:HE22	1:A:805:ILE:HA	1.56	0.69
1:A:930:GLU:N	1:A:930:GLU:OE1	2.28	0.67
1:B:638:MET:HG3	1:B:642:LYS:HE3	1.76	0.66
1:B:781:ALA:HA	3:B:1103:HOH:O	1.95	0.66
1:B:880:TYR:O	1:B:884:LYS:HG2	1.96	0.64
1:B:594:THR:HA	1:B:604:VAL:HG12	1.81	0.63
1:B:860:TRP:HA	1:B:903:MET:CE	2.29	0.63
1:A:603:VAL:HG22	1:A:623:LYS:HG3	1.80	0.62
1:A:926:LYS:O	1:A:930:GLU:OE1	2.18	0.60
1:B:631:LEU:O	1:B:635:GLU:HG3	2.01	0.60
1:A:882:MET:HG2	1:A:887:PHE:HB2	1.84	0.58
1:A:657:LEU:HB2	1:A:669:ILE:HG22	1.86	0.57
1:A:579:ASP:OD2	1:A:580:HIS:N	2.38	0.57
1:A:638:MET:O	1:A:642:LYS:HG2	2.07	0.54
1:B:860:TRP:CA	1:B:903:MET:HE2	2.39	0.53
1:B:891:SER:HB2	1:B:900:TYR:CD2	2.44	0.53
1:A:584:PHE:HE2	1:A:589:LEU:HG	1.76	0.50
1:B:887:PHE:O	1:B:888:ARG:HD3	2.11	0.50
1:A:826:LYS:HE2	1:A:841:ILE:HG23	1.96	0.48
1:A:656:LEU:HA	1:A:670:THR:HG22	1.96	0.47
1:B:631:LEU:HA	1:B:634:ARG:HD3	1.96	0.47
1:A:574:THR:OG1	1:A:575:GLN:N	2.48	0.47
1:B:860:TRP:N	1:B:903:MET:HE2	2.30	0.47
1:A:899:MET:HE1	1:A:924:ILE:HG12	1.98	0.46
1:B:570:TYR:HE2	1:B:572:ASP:HB3	1.82	0.45
1:A:853:TRP:CE3	1:A:907:TRP:HA	2.51	0.45
1:B:610:GLY:HA2	1:B:614:SER:HA	1.98	0.45
1:B:860:TRP:HA	1:B:903:MET:HE2	1.98	0.45
1:B:682:LEU:O	1:B:685:LYS:HG3	2.17	0.45
1:A:775:GLN:NE2	1:A:806:THR:H	2.15	0.45
1:A:579:ASP:OD2	1:A:581:LYS:HG3	2.17	0.45
1:B:594:THR:HG22	1:B:604:VAL:HG12	1.99	0.44
1:B:891:SER:HB2	1:B:900:TYR:CG	2.51	0.44
1:A:658:GLY:O	1:A:669:ILE:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:572:ASP:OD1	1:B:575:GLN:HG3	2.18	0.44
1:B:876:ASP:OD1	1:B:878:LYS:N	2.51	0.44
1:B:786:LYS:HA	1:B:786:LYS:HD2	1.88	0.44
1:B:824:VAL:HG21	1:B:875:VAL:HG11	2.01	0.43
1:A:843:ASN:ND2	3:A:1103:HOH:O	2.42	0.43
1:A:882:MET:CG	1:A:887:PHE:HB2	2.48	0.43
1:A:873:MET:SD	1:A:882:MET:CE	3.06	0.43
1:A:571:ILE:HD11	1:A:576:LEU:HD13	2.01	0.42
1:A:652:ASN:ND2	1:A:775:GLN:HE21	2.18	0.42
1:B:584:PHE:CZ	1:B:588:ARG:HB2	2.55	0.41
1:A:839:GLU:HG2	1:A:840:SER:N	2.35	0.41
1:A:652:ASN:HD21	1:A:775:GLN:HE21	1.68	0.41
1:A:573:PRO:HB3	1:A:643:VAL:HG23	2.03	0.41

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	297/331 (90%)	290 (98%)	6 (2%)	1 (0%)	41 41
1	B	294/331 (89%)	287 (98%)	7 (2%)	0	100 100
All	All	591/662 (89%)	577 (98%)	13 (2%)	1 (0%)	47 49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	577	PRO

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	260/289 (90%)	257 (99%)	3 (1%)	71 77
1	B	258/289 (89%)	255 (99%)	3 (1%)	71 77
All	All	518/578 (90%)	512 (99%)	6 (1%)	71 77

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	569	VAL
1	A	758	GLU
1	A	830	ARG
1	B	828	ASN
1	B	918	LYS
1	B	929	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	775	GLN
1	B	652	ASN
1	B	787	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 (i)

There are no carbohydrates 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	AWO	A	1001	-	33,41,41	1.48	5 (15%)	37,56,56	2.66	12 (32%)
2	AWO	B	1001	-	33,41,41	1.49	5 (15%)	37,56,56	2.60	9 (24%)

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	AWO	A	1001	-	-	5/19/24/24	0/5/5/5
2	AWO	B	1001	-	-	4/19/24/24	0/5/5/5

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1001	AWO	C3-N6	4.01	1.43	1.36
2	A	1001	AWO	C7-N6	3.62	1.45	1.38
2	B	1001	AWO	C28-N29	3.60	1.45	1.37
2	A	1001	AWO	C3-N6	3.59	1.43	1.36
2	A	1001	AWO	C28-N29	3.54	1.44	1.37
2	B	1001	AWO	C7-N6	3.18	1.44	1.38
2	B	1001	AWO	C28-N27	3.01	1.43	1.37
2	A	1001	AWO	C28-N27	2.89	1.43	1.37
2	A	1001	AWO	C1-C5	2.17	1.41	1.37
2	B	1001	AWO	O37-C28	-2.12	1.18	1.23

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	1001	AWO	C30-N29-C28	-9.40	117.22	130.41
2	B	1001	AWO	C9-N10-C11	8.29	122.18	114.94
2	A	1001	AWO	C9-N10-C11	6.93	121.00	114.94
2	B	1001	AWO	C30-N29-C28	-6.90	120.72	130.41
2	B	1001	AWO	C24-N27-C28	-5.59	115.18	126.61
2	A	1001	AWO	C24-N27-C28	-5.24	115.88	126.61
2	B	1001	AWO	N10-C9-N8	-5.06	120.68	128.60
2	B	1001	AWO	N29-C28-N27	4.40	120.17	112.49
2	A	1001	AWO	N29-C28-N27	4.08	119.62	112.49
2	A	1001	AWO	N10-C9-N8	-3.97	122.39	128.60
2	B	1001	AWO	O37-C28-N27	-3.39	117.89	123.62
2	A	1001	AWO	O37-C28-N27	-3.09	118.40	123.62
2	B	1001	AWO	C35-C33-C34	-2.83	125.89	128.68
2	A	1001	AWO	C35-C33-C34	-2.79	125.94	128.68
2	B	1001	AWO	C5-C1-N2	2.69	114.49	109.09
2	A	1001	AWO	C5-C1-N2	2.55	114.21	109.09
2	A	1001	AWO	C26-C21-C22	2.35	122.27	117.59
2	A	1001	AWO	N6-C7-N8	2.13	123.31	116.81
2	A	1001	AWO	C25-C26-C21	-2.10	118.11	121.13
2	A	1001	AWO	C25-C24-C23	2.06	121.85	119.03
2	B	1001	AWO	C26-C21-C22	2.02	121.62	117.59

There are no chirality outliers.

All (9) torsion outliers are listed below:

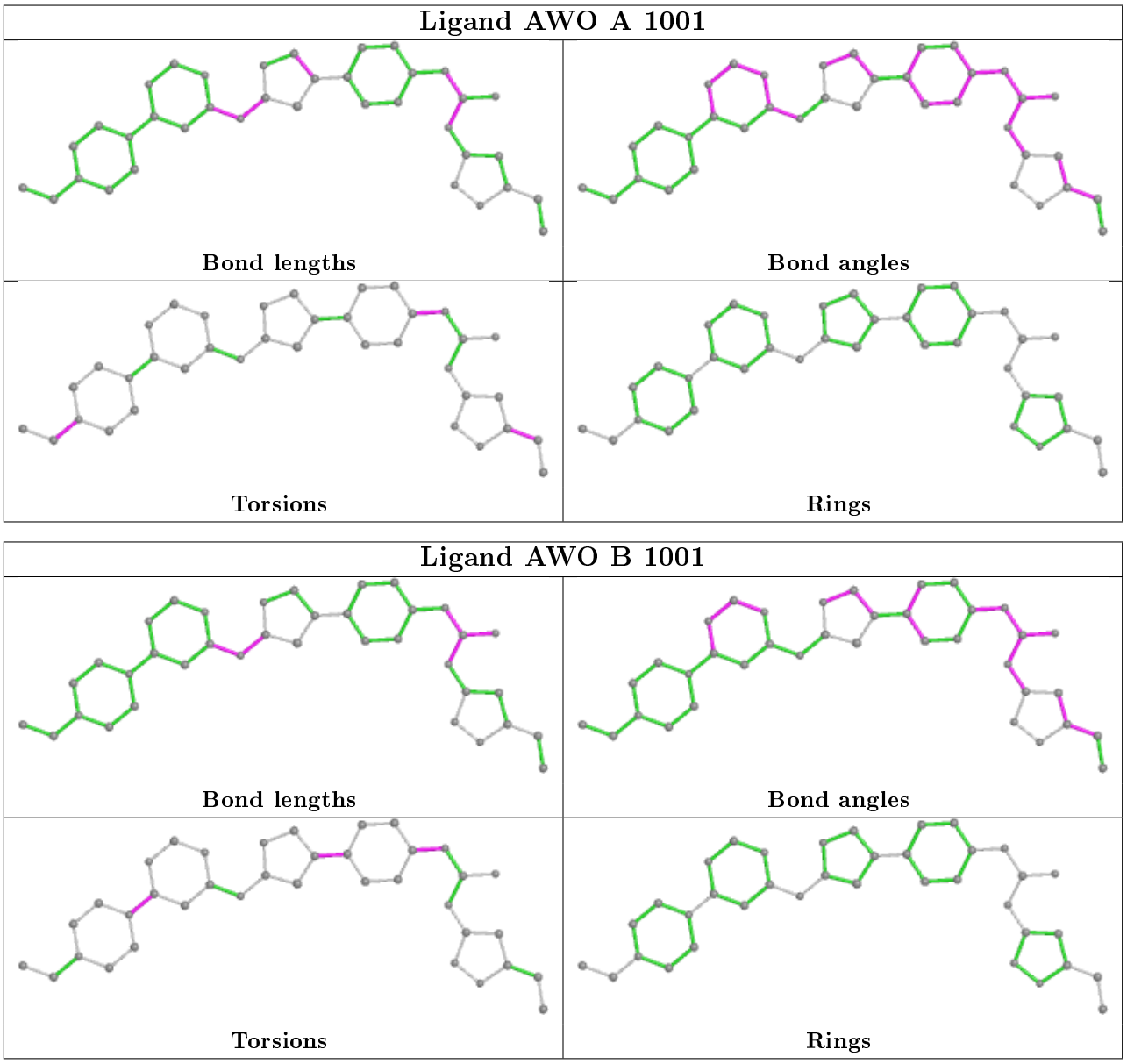
Mol	Chain	Res	Type	Atoms
2	A	1001	AWO	C34-C33-C35-C36
2	A	1001	AWO	C23-C24-N27-C28
2	A	1001	AWO	C25-C24-N27-C28
2	B	1001	AWO	C25-C24-N27-C28
2	B	1001	AWO	C23-C24-N27-C28
2	A	1001	AWO	C20-C19-N16-C15
2	A	1001	AWO	C20-C19-N16-C17
2	B	1001	AWO	C12-C11-N13-C18
2	B	1001	AWO	C26-C21-C5-C1

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.



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95^{th} 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	301/331 (90%)	0.45	34 (11%) 5 6	27, 54, 99, 145	0
1	B	297/331 (89%)	0.33	27 (9%) 9 12	31, 56, 90, 146	0
All	All	598/662 (90%)	0.39	61 (10%) 6 8	27, 55, 96, 146	0

All (61) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	616	ALA	7.4
1	B	615	ASP	5.6
1	A	615	ASP	5.2
1	A	580	HIS	4.9
1	B	616	ALA	4.8
1	B	613	LYS	4.8
1	A	564	ASN	4.7
1	A	609	TYR	4.3
1	A	662	ILE	4.1
1	B	609	TYR	4.1
1	B	825	VAL	4.0
1	A	617	ALA	3.8
1	A	758	GLU	3.8
1	A	793	LEU	3.7
1	B	580	HIS	3.7
1	A	614	SER	3.6
1	B	614	SER	3.4
1	A	612	ILE	3.4
1	A	579	ASP	3.3
1	A	587	ASN	3.3
1	A	575	GLN	3.2
1	B	587	ASN	3.1
1	A	582	TRP	3.1
1	A	761	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	613	LYS	3.0
1	A	563	ILE	3.0
1	A	578	TYR	3.0
1	A	577	PRO	2.9
1	B	612	ILE	2.9
1	B	757	MET	2.8
1	A	687	ASP	2.8
1	B	599	ALA	2.8
1	A	648	GLY	2.8
1	B	617	ALA	2.7
1	B	577	PRO	2.7
1	B	578	TYR	2.7
1	A	574	THR	2.6
1	B	824	VAL	2.6
1	B	588	ARG	2.5
1	A	581	LYS	2.4
1	A	798	ILE	2.3
1	B	829	ALA	2.2
1	A	794	ALA	2.2
1	B	598	GLY	2.2
1	A	576	LEU	2.2
1	A	858	PHE	2.2
1	A	808	ILE	2.1
1	B	808	ILE	2.1
1	A	809	CYS	2.1
1	B	875	VAL	2.1
1	A	663	GLY	2.1
1	A	795	ALA	2.1
1	B	878	LYS	2.1
1	B	793	LEU	2.1
1	B	579	ASP	2.1
1	B	818	LYS	2.1
1	B	789	ILE	2.0
1	B	790	HIS	2.0
1	A	661	THR	2.0
1	B	881	LYS	2.0
1	A	857	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 carbohydrates in this entry.

6.4 Ligands (i)

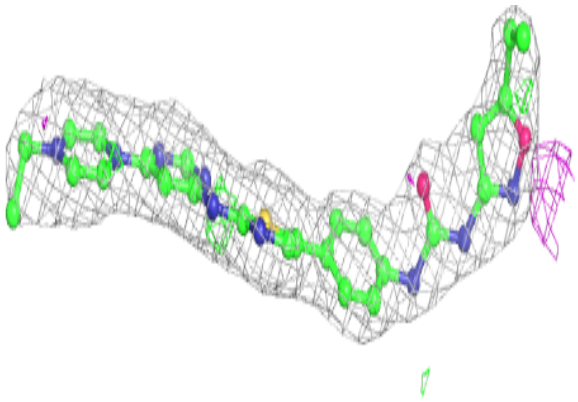
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

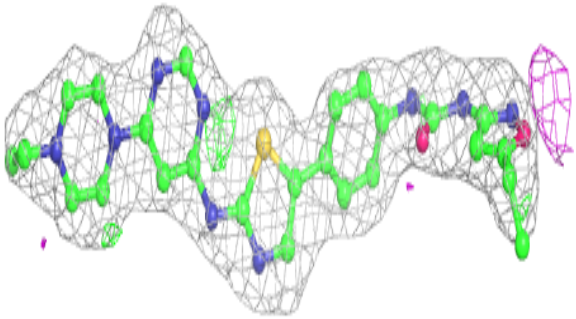
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	AWO	B	1001	37/37	0.92	0.16	31,44,68,69	0
2	AWO	A	1001	37/37	0.94	0.15	28,43,61,69	0

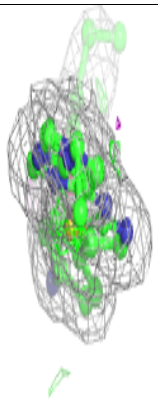
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around AWO 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)

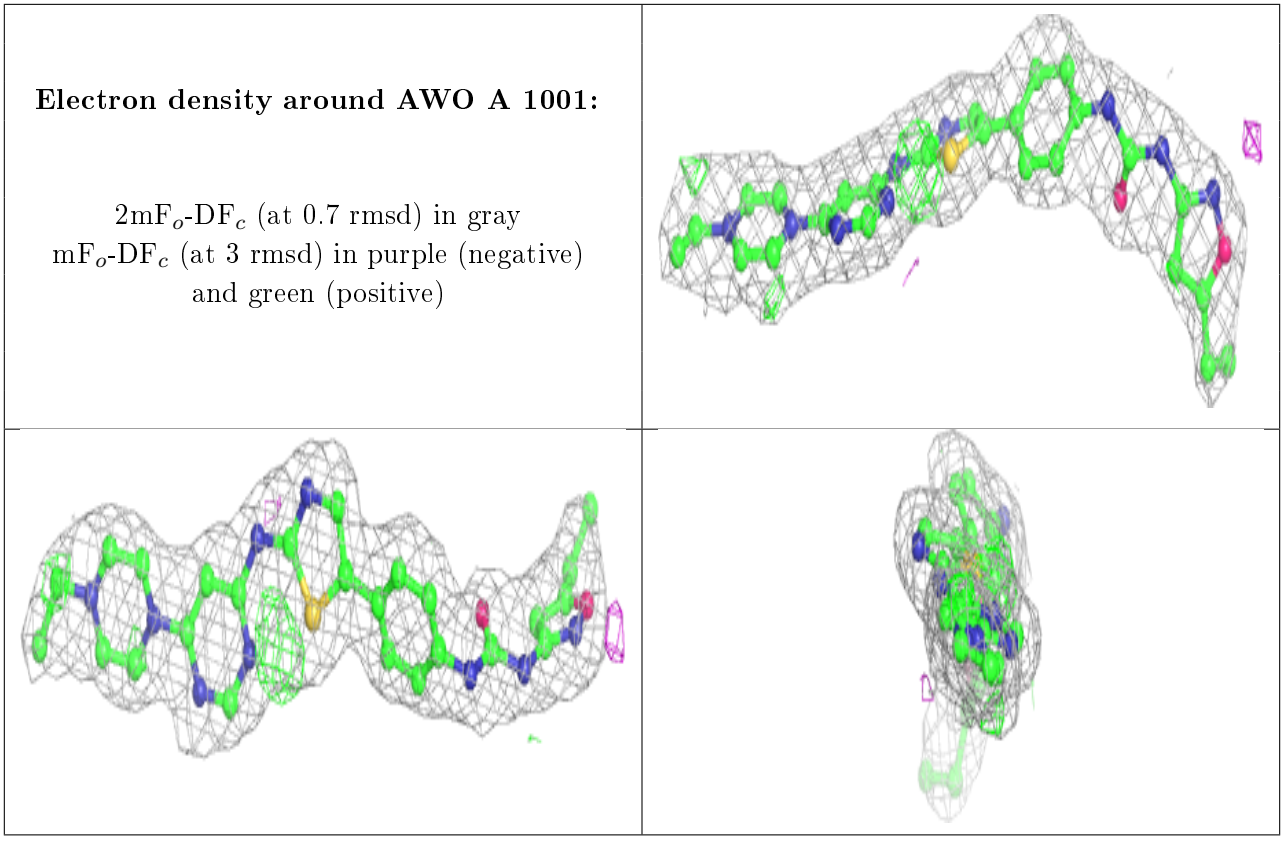






Electron density around AWO A 1001:

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



6.5 Other polymers

There are no such residues in this entry.