



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 07:39 PM EDT

PDB ID : 6FNJ
Title : Crystal Structure of Ephrin B4 (EphB4) Receptor Protein Kinase with an isomer of NVP-BHG712
Authors : Kudlinzki, D.; Troester, A.; Witt, K.; Linhard, V.L.; Saxena, K.; Schwalbe, H.
Deposited on : 2018-02-04
Resolution : 1.24 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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 : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

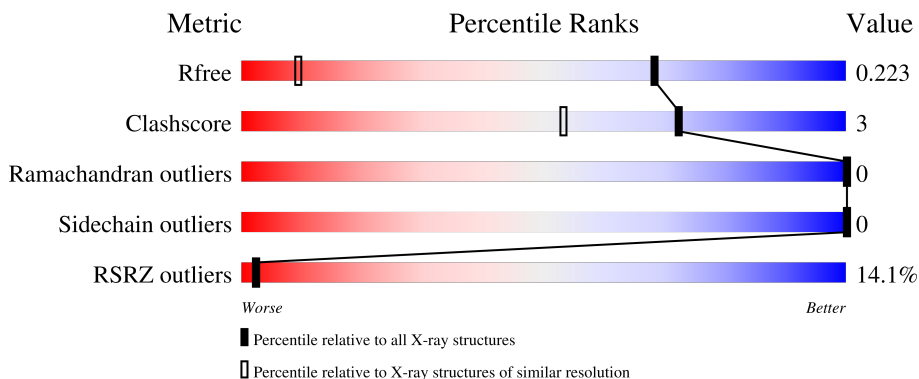
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.24 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	2024 (1.28-1.20)
Clashscore	141614	1007 (1.26-1.22)
Ramachandran outliers	138981	2053 (1.28-1.20)
Sidechain outliers	138945	2051 (1.28-1.20)
RSRZ outliers	127900	1987 (1.28-1.20)

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	297	
1	B	297	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5037 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.

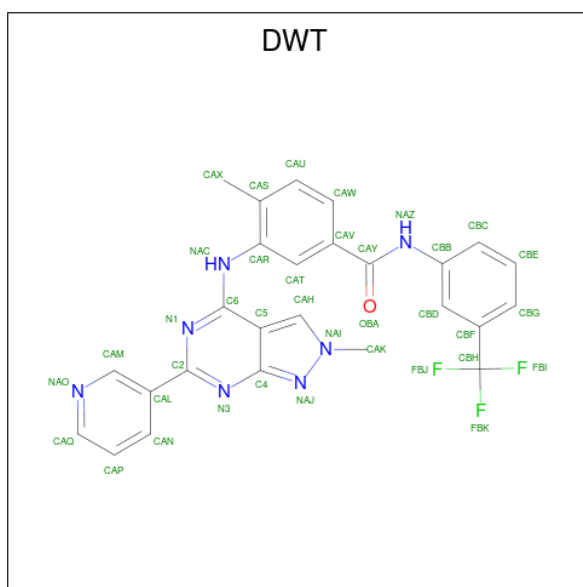
- Molecule 1 is a protein called Ephrin type-B receptor 4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	262	2151	1366	378	388	19	0	9	0
1	B	262	2162	1370	381	392	19	0	10	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	596	GLY	-	expression tag	UNP P54760
A	597	MET	-	expression tag	UNP P54760
A	774	GLU	TYR	engineered mutation	UNP P54760
A	803	VAL	ALA	engineered mutation	UNP P54760
A	870	ILE	VAL	engineered mutation	UNP P54760
B	596	GLY	-	expression tag	UNP P54760
B	597	MET	-	expression tag	UNP P54760
B	774	GLU	TYR	engineered mutation	UNP P54760
B	803	VAL	ALA	engineered mutation	UNP P54760
B	870	ILE	VAL	engineered mutation	UNP P54760

- Molecule 2 is 4-methyl-3-[(2-methyl-6-pyridin-3-yl-pyrazolo[3,4-d]pyrimidin-4-yl)amino]-{N}-[3-(trifluoromethyl)phenyl]benzamide (three-letter code: DWT) (formula: C₂₆H₂₀F₃N₇O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	A	1	Total	C	F	N	O	0	0
			37	26	3	7	1		
2	B	1	Total	C	F	N	O	0	0
			37	26	3	7	1		

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
3	B	1	Total	C	O	0	0
			4	2	2		

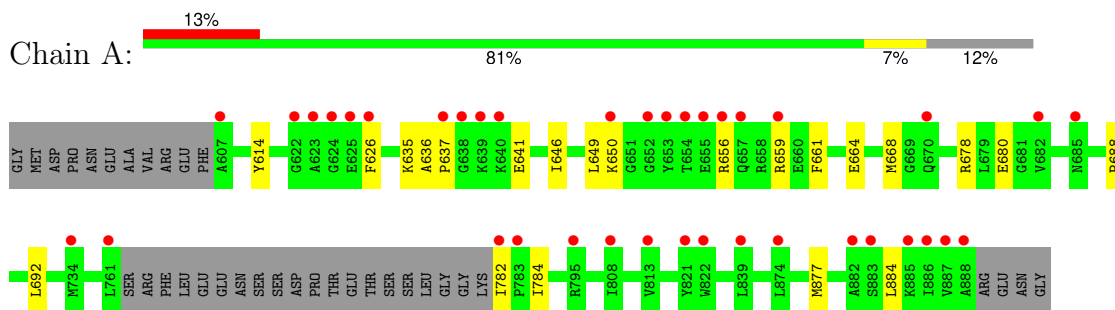
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	334	Total 334	O 334	0	0
4	B	312	Total 312	O 312	0	0

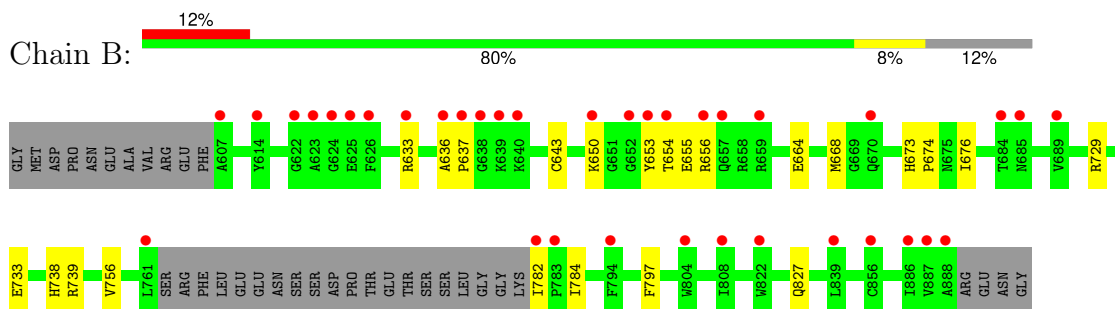
3 Residue-property plots [i](#)

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: Ephrin type-B receptor 4



- Molecule 1: Ephrin type-B receptor 4



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.82Å 87.69Å 81.74Å 90.00° 104.95° 90.00°	Depositor
Resolution (Å)	45.34 – 1.24 45.34 – 1.24	Depositor EDS
% Data completeness (in resolution range)	96.7 (45.34-1.24) 96.9 (45.34-1.24)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.96 (at 1.24Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155)	Depositor
R, R_{free}	0.210 , 0.224 0.209 , 0.223	Depositor DCC
R_{free} test set	2144 reflections (1.05%)	wwPDB-VP
Wilson B-factor (Å ²)	23.0	Xtrriage
Anisotropy	0.308	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	5037	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.71% 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: EDO, DWT

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	0.37	0/2194	0.59	0/2962
1	B	0.36	0/2205	0.58	0/2977
All	All	0.36	0/4399	0.59	0/5939

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 [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	2151	0	2164	13	0
1	B	2162	0	2168	16	0
2	A	37	0	0	1	0
2	B	37	0	0	0	0
3	B	4	0	6	0	0
4	A	334	0	0	0	0
4	B	312	0	0	1	0
All	All	5037	0	4338	30	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 (30) 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:654:THR:HG22	1:B:656:ARG:H	1.29	0.95
1:B:633:ARG:NH1	1:B:643[A]:CYS:SG	2.56	0.79
1:B:636:ALA:HB1	1:B:637:PRO:HD2	1.71	0.72
1:A:626:PHE:HB3	1:A:649:LEU:HD13	1.82	0.60
1:B:729[B]:ARG:NH2	1:B:733[B]:GLU:OE1	2.36	0.59
1:B:654:THR:HG22	1:B:655:GLU:N	2.18	0.58
1:A:650:LYS:HB3	1:A:688:PRO:HB3	1.85	0.58
1:A:635:LYS:HD3	1:A:641:GLU:HB2	1.93	0.51
1:A:877:MET:HB3	1:A:884:LEU:HD21	1.92	0.51
1:B:664:GLU:O	1:B:668:MET:HG3	2.10	0.50
1:B:729[B]:ARG:HH21	1:B:733[B]:GLU:CD	2.15	0.50
1:A:649:LEU:HD22	1:A:661:PHE:HB2	1.94	0.48
1:B:782:ILE:O	1:B:784:ILE:N	2.43	0.47
1:B:650:LYS:O	1:B:653:TYR:HD2	1.98	0.47
1:B:654:THR:CG2	1:B:655:GLU:N	2.78	0.46
1:A:614:TYR:CZ	1:A:637:PRO:HD3	2.52	0.45
1:A:664:GLU:O	1:A:668:MET:HG3	2.15	0.45
1:A:656:ARG:O	1:A:659:ARG:HB3	2.17	0.44
1:A:782:ILE:HG23	1:A:784:ILE:HG12	2.00	0.44
1:A:678:ARG:NH1	1:A:680:GLU:OE2	2.44	0.44
1:B:827:GLN:NE2	4:B:1108:HOH:O	2.44	0.44
2:A:1001:DWT:CAH	2:A:1001:DWT:CAR	2.97	0.42
1:B:784:ILE:HD13	1:B:784:ILE:HA	1.95	0.42
1:B:739[B]:ARG:HG2	1:B:797:PHE:CD2	2.55	0.41
1:A:646:ILE:HG12	1:A:692:LEU:HG	2.01	0.41
1:A:649:LEU:HD22	1:A:661:PHE:CB	2.50	0.41
1:B:673:HIS:CG	1:B:674:PRO:HD2	2.56	0.41
1:B:676[A]:ILE:HD13	1:B:756:VAL:HB	2.02	0.41
1:A:636:ALA:HB1	1:A:637:PRO:HD2	2.03	0.41
1:B:738:HIS:O	1:B:739[B]:ARG:HB2	2.21	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	267/297 (90%)	261 (98%)	6 (2%)	0	100	100
1	B	268/297 (90%)	262 (98%)	6 (2%)	0	100	100
All	All	535/594 (90%)	523 (98%)	12 (2%)	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	235/256 (92%)	235 (100%)	0	100	100
1	B	236/256 (92%)	236 (100%)	0	100	100
All	All	471/512 (92%)	471 (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. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry

3 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	DWT	A	1001	-	39,41,41	2.39	11 (28%)	49,60,60	1.72	9 (18%)
2	DWT	B	1001	-	39,41,41	2.34	13 (33%)	49,60,60	1.81	10 (20%)
3	EDO	B	1002	-	3,3,3	0.44	0	2,2,2	0.27	0

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	DWT	A	1001	-	-	4/22/22/22	0/5/5/5
2	DWT	B	1001	-	-	4/22/22/22	0/5/5/5
3	EDO	B	1002	-	-	1/1/1/1	-

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	DWT	C6-C5	-8.02	1.35	1.44
2	B	1001	DWT	C6-C5	-7.03	1.36	1.44
2	B	1001	DWT	FBK-CBH	-6.37	1.10	1.33
2	A	1001	DWT	FBJ-CBH	-5.66	1.12	1.33
2	A	1001	DWT	FBK-CBH	-5.18	1.14	1.33
2	B	1001	DWT	FBJ-CBH	-4.50	1.16	1.33
2	B	1001	DWT	CAX-CAS	-4.35	1.42	1.51
2	A	1001	DWT	CAV-CAY	-3.77	1.42	1.50
2	A	1001	DWT	CAX-CAS	-3.73	1.44	1.51
2	B	1001	DWT	CAV-CAY	-3.46	1.42	1.50
2	A	1001	DWT	C5-C4	-3.31	1.34	1.43
2	A	1001	DWT	CAL-C2	-3.27	1.39	1.48
2	B	1001	DWT	C5-C4	-3.17	1.34	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1001	DWT	CAL-C2	-3.16	1.39	1.48
2	A	1001	DWT	CAH-C5	-2.75	1.33	1.40
2	B	1001	DWT	CBH-CBF	-2.73	1.44	1.49
2	A	1001	DWT	CAM-NAO	2.68	1.40	1.34
2	B	1001	DWT	CAH-C5	-2.51	1.34	1.40
2	B	1001	DWT	CAM-NAO	2.49	1.39	1.34
2	B	1001	DWT	FBI-CBH	-2.43	1.24	1.33
2	A	1001	DWT	CBH-CBF	-2.35	1.45	1.49
2	A	1001	DWT	CAQ-NAO	2.30	1.40	1.33
2	B	1001	DWT	CAR-NAC	-2.12	1.34	1.39
2	B	1001	DWT	CAQ-NAO	2.05	1.39	1.33

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1001	DWT	N3-C2-N1	-5.64	118.99	126.49
2	A	1001	DWT	N3-C2-N1	-5.23	119.54	126.49
2	B	1001	DWT	C5-C6-NAC	3.95	123.77	119.77
2	A	1001	DWT	FBJ-CBH-CBF	-3.77	104.82	112.90
2	A	1001	DWT	C5-C6-NAC	3.71	123.52	119.77
2	B	1001	DWT	C6-N1-C2	3.48	121.83	117.20
2	B	1001	DWT	FBJ-CBH-CBF	-3.24	105.96	112.90
2	B	1001	DWT	FBK-CBH-CBF	-3.03	106.41	112.90
2	A	1001	DWT	C6-N1-C2	3.00	121.18	117.20
2	B	1001	DWT	CBB-CBD-CBF	2.94	123.06	119.86
2	A	1001	DWT	FBK-CBH-CBF	-2.86	106.78	112.90
2	B	1001	DWT	C2-N3-C4	2.79	119.58	115.21
2	A	1001	DWT	C2-N3-C4	2.72	119.46	115.21
2	B	1001	DWT	FBI-CBH-CBF	-2.56	107.42	112.90
2	A	1001	DWT	CBB-CBD-CBF	2.34	122.41	119.86
2	A	1001	DWT	NAC-C6-N1	-2.27	116.72	118.70
2	B	1001	DWT	NAC-C6-N1	-2.23	116.76	118.70
2	B	1001	DWT	CAL-C2-N1	2.07	120.82	117.40
2	A	1001	DWT	FBI-CBH-CBF	-2.07	108.47	112.90

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1001	DWT	N1-C6-NAC-CAR
2	A	1001	DWT	C5-C6-NAC-CAR
2	B	1001	DWT	N1-C6-NAC-CAR

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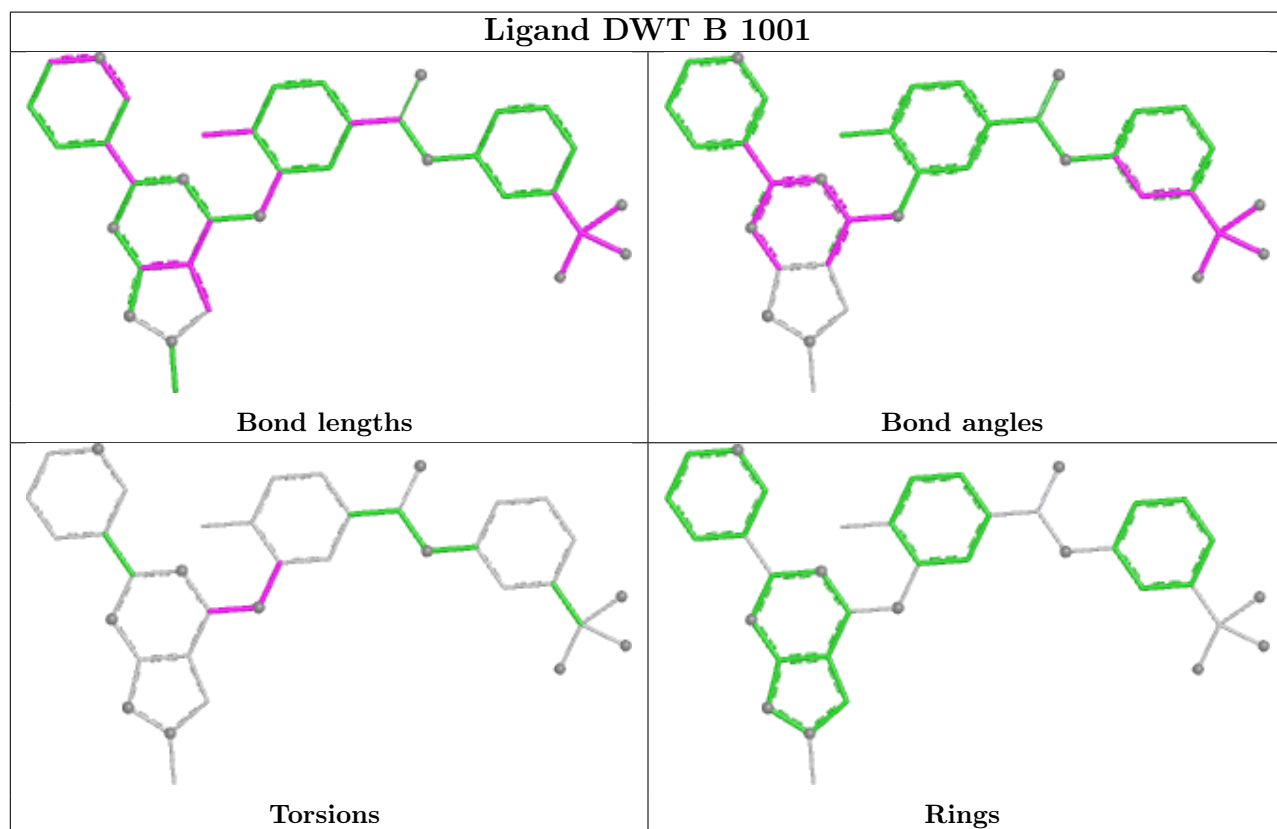
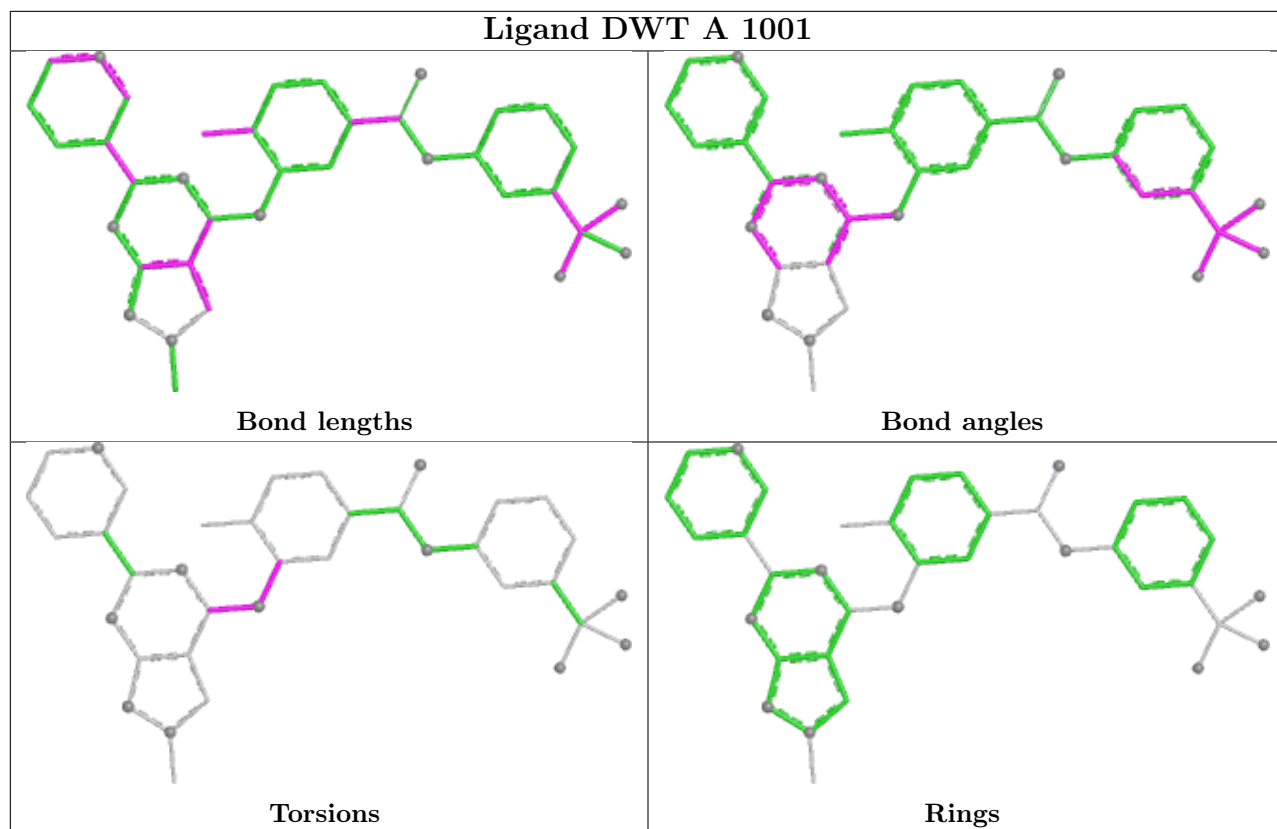
Mol	Chain	Res	Type	Atoms
2	B	1001	DWT	C5-C6-NAC-CAR
2	A	1001	DWT	CAS-CAR-NAC-C6
2	B	1001	DWT	CAS-CAR-NAC-C6
2	A	1001	DWT	CAT-CAR-NAC-C6
2	B	1001	DWT	CAT-CAR-NAC-C6
3	B	1002	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1001	DWT	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 [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	262/297 (88%)	0.98	38 (14%) 2 2	22, 32, 65, 83	0
1	B	262/297 (88%)	1.03	36 (13%) 3 2	21, 32, 67, 88	0
All	All	524/594 (88%)	1.01	74 (14%) 2 2	21, 32, 67, 88	0

All (74) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	626	PHE	13.0
1	A	761	LEU	12.9
1	A	626	PHE	9.7
1	B	761	LEU	9.4
1	B	656	ARG	8.5
1	A	652	GLY	8.3
1	A	625	GLU	7.3
1	B	623	ALA	7.2
1	B	654	THR	7.1
1	B	888	ALA	6.9
1	A	782	ILE	6.9
1	A	656	ARG	6.7
1	B	624	GLY	6.5
1	B	782	ILE	6.2
1	A	624	GLY	6.0
1	A	659	ARG	5.9
1	B	652	GLY	5.8
1	A	654	THR	5.8
1	A	639	LYS	5.7
1	B	637	PRO	5.7
1	A	888	ALA	5.4
1	A	607	ALA	5.1
1	B	639	LYS	5.0
1	A	623	ALA	4.9

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Mol	Chain	Res	Type	RSRZ
1	B	887	VAL	4.9
1	A	685	ASN	4.8
1	B	625	GLU	4.7
1	A	783	PRO	4.6
1	B	638	GLY	4.6
1	A	637	PRO	4.5
1	B	607	ALA	4.2
1	A	650	LYS	4.1
1	A	882	ALA	4.0
1	B	659	ARG	4.0
1	B	657	GLN	3.9
1	B	650	LYS	3.8
1	A	886	ILE	3.5
1	B	685	ASN	3.5
1	B	640	LYS	3.4
1	B	886	ILE	3.3
1	A	795	ARG	3.1
1	A	638	GLY	3.0
1	A	653	TYR	3.0
1	B	622	GLY	3.0
1	B	636	ALA	2.9
1	B	794	PHE	2.9
1	A	883	SER	2.8
1	A	839	LEU	2.8
1	A	682	VAL	2.8
1	A	887	VAL	2.8
1	B	653	TYR	2.7
1	B	783	PRO	2.7
1	A	640	LYS	2.6
1	B	633	ARG	2.5
1	A	657	GLN	2.5
1	A	885	LYS	2.4
1	A	670	GLN	2.4
1	B	670	GLN	2.4
1	B	614	TYR	2.4
1	A	808	ILE	2.4
1	B	808	ILE	2.4
1	A	874	LEU	2.3
1	A	655	GLU	2.3
1	A	622	GLY	2.3
1	B	689	VAL	2.2
1	B	822	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	839	LEU	2.2
1	B	856	CYS	2.1
1	A	813	VAL	2.1
1	A	822	TRP	2.1
1	A	734[A]	MET	2.1
1	B	684	THR	2.1
1	B	804	TRP	2.1
1	A	821	TYR	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 monosaccharides in this entry.

6.4 Ligands [i](#)

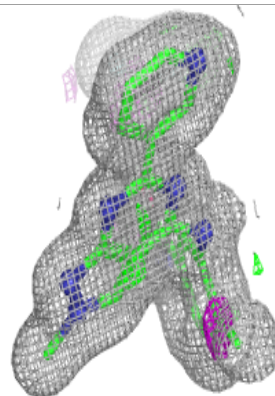
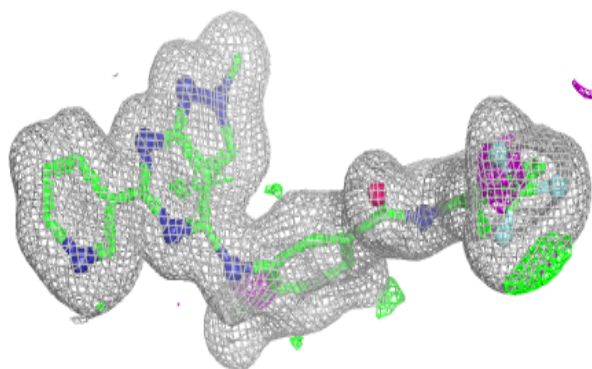
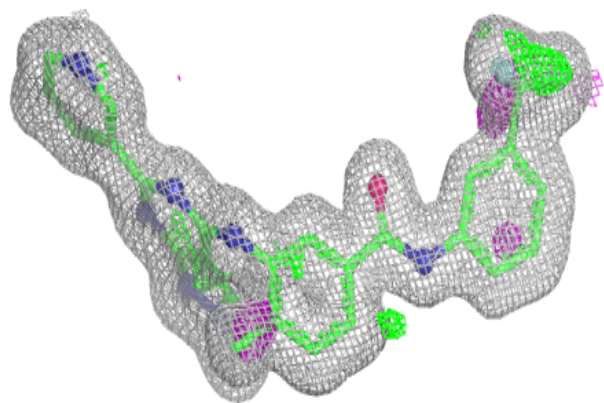
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	EDO	B	1002	4/4	0.51	0.27	48,48,50,55	0
2	DWT	A	1001	37/37	0.92	0.08	23,27,31,32	0
2	DWT	B	1001	37/37	0.93	0.08	23,28,31,33	0

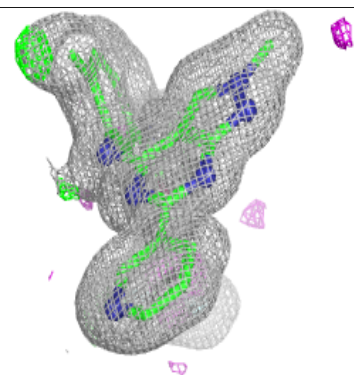
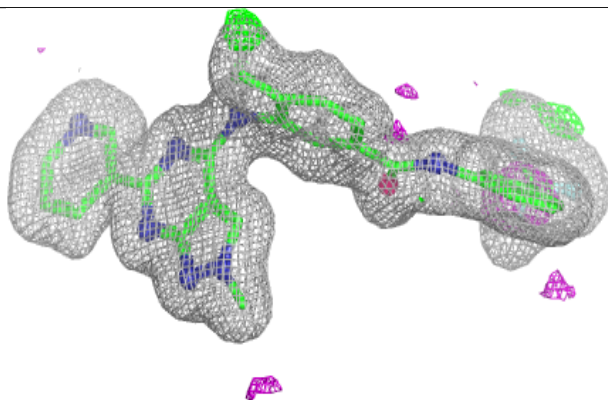
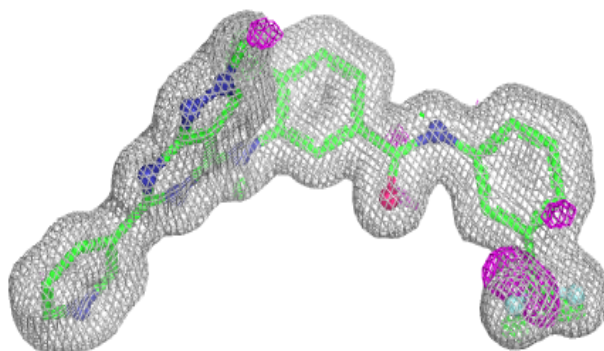
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around DWT 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 DWT 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 [i](#)

There are no such residues in this entry.