



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:50 AM UTC

PDB ID : 6FNJ / pdb_00006fnj
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.

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

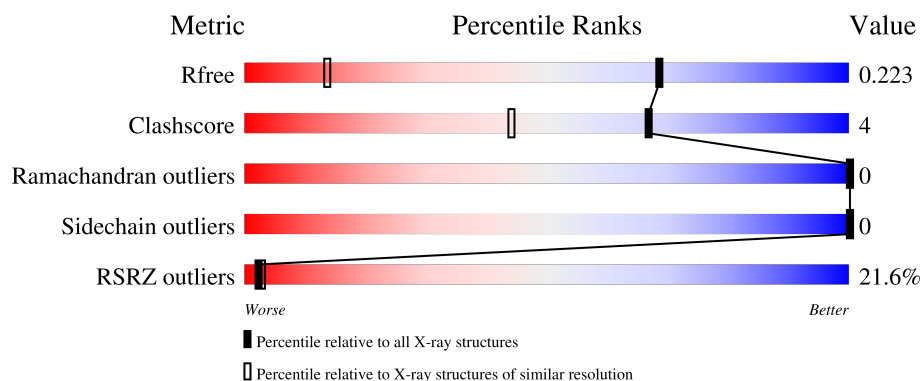
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.24 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}	180053	1630 (1.26-1.22)
Clashscore	190562	1668 (1.26-1.22)
Ramachandran outliers	187476	1635 (1.26-1.22)
Sidechain outliers	187428	1633 (1.26-1.22)
RSRZ outliers	180081	1630 (1.26-1.22)

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	20% 80% 8% 12%
1	B	297	19% 80% 7% 12%

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.

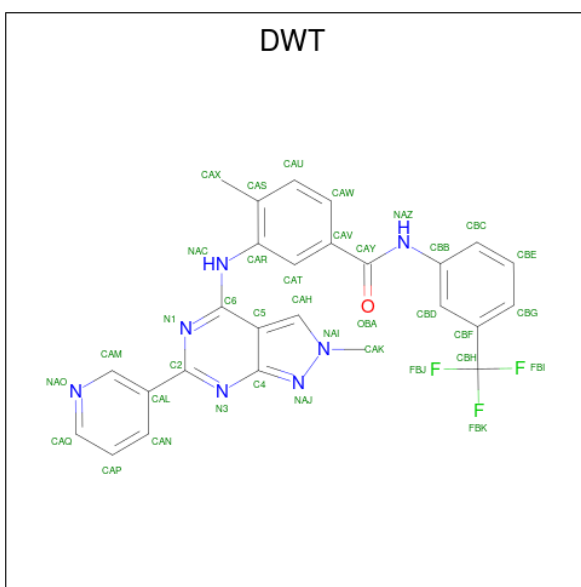
- Molecule 1 is a protein called Ephrin type-B receptor 4.

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

There are 10 discrepancies between the modelled and reference sequences:

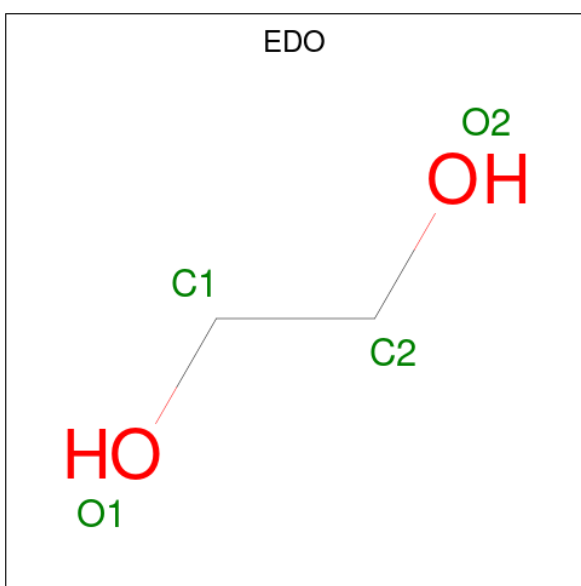
Chain	Residue	Modelled	Actual	Comment	Reference
A	596	GLY	-	expression tag	UNP P54760
A	597	MET	-	expression tag	UNP P54760
A	774	GLU	TYR	engineered mutation	UNP P54760
A	803	VAL	ALA	engineered mutation	UNP P54760
A	870	ILE	VAL	engineered mutation	UNP P54760
B	596	GLY	-	expression tag	UNP P54760
B	597	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 (CCD ID: DWT) (formula: C₂₆H₂₀F₃N₇O).



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

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $\text{C}_2\text{H}_6\text{O}_2$).



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

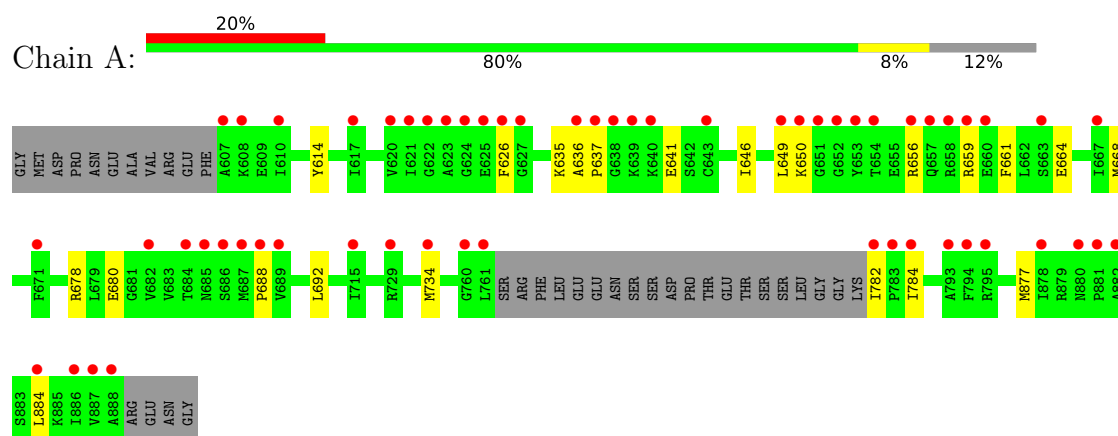
- Molecule 4 is water.

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

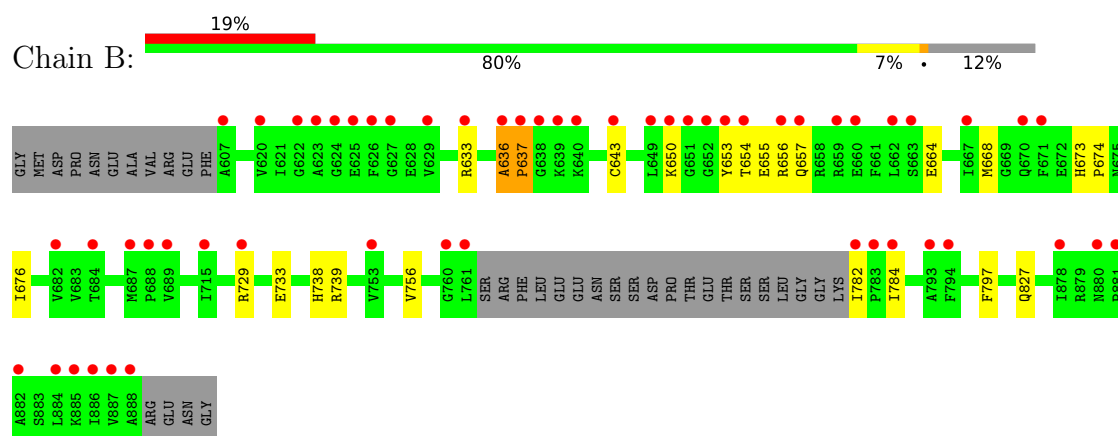
3 Residue-property plots

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) 96.8 (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)	Xtriage
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	Xtriage
Anisotropy	0.308	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 40.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5037	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage'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

5.1 Standard geometry

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	0.54	0/2962
1	B	0.33	0/2205	0.57	5/2977 (0.2%)
All	All	0.35	0/4399	0.55	5/5939 (0.1%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	636	ALA	CA-C-N	8.96	131.03	119.84
1	B	636	ALA	C-N-CA	8.96	131.03	119.84
1	B	637	PRO	N-CA-C	5.92	124.66	112.47
1	B	637	PRO	CB-CA-C	-5.78	102.02	111.56
1	B	657	GLN	N-CA-C	-5.49	104.69	111.33

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	2151	0	2164	15	0
1	B	2162	0	2168	16	0
2	A	37	0	0	1	0
2	B	37	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	32	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 (32) 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:B:729[B]:ARG:HH21	1:B:733[B]:GLU:CD	2.15	0.54
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: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
1:A:668:MET:HE2	1:A:668:MET:HB3	1.90	0.43
1:A:734[A]:MET:HE2	1:A:734[A]:MET:HB3	1.82	0.43
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

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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. All (2) such

sidechains are listed below:

Mol	Chain	Res	Type
1	B	670	GLN
1	B	880	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 ⓘ

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	2.42	11 (28%)	56,60,60	1.86	14 (25%)
3	EDO	B	1002	-	3,3,3	0.44	0	2,2,2	0.27	0
2	DWT	B	1001	-	39,41,41	2.55	13 (33%)	56,60,60	2.02	14 (25%)

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

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1001	DWT	NAI-NAJ	-9.40	1.22	1.36
2	A	1001	DWT	NAI-NAJ	-8.13	1.24	1.36
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	C4-C5	-3.31	1.34	1.43
2	A	1001	DWT	CAL-C2	-3.27	1.39	1.48
2	B	1001	DWT	C4-C5	-3.17	1.34	1.43
2	B	1001	DWT	CAL-C2	-3.16	1.39	1.48
2	A	1001	DWT	C6-C5	-3.05	1.35	1.43
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	C6-C5	-2.58	1.36	1.43
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 (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1001	DWT	CAK-NAI-NAJ	5.80	125.47	119.57
2	A	1001	DWT	C5-C4-N3	-4.83	121.24	126.44
2	B	1001	DWT	C5-C4-N3	-4.39	121.72	126.44
2	A	1001	DWT	CAK-NAI-NAJ	4.11	123.75	119.57
2	B	1001	DWT	C5-C6-NAC	3.96	123.77	119.77
2	B	1001	DWT	C4-NAJ-NAI	3.86	109.34	101.94
2	A	1001	DWT	FBJ-CBH-CBF	-3.77	104.82	112.90
2	B	1001	DWT	N1-C2-N3	-3.73	118.99	125.13

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1001	DWT	C5-C6-NAC	3.72	123.52	119.77
2	B	1001	DWT	CAK-NAI-CAH	-3.61	124.31	127.94
2	A	1001	DWT	C4-NAJ-NAI	3.45	108.56	101.94
2	A	1001	DWT	N1-C2-N3	-3.40	119.54	125.13
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	B	1001	DWT	C6-N1-C2	3.02	121.83	116.45
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	CAH-NAI-NAJ	-2.74	109.99	112.71
2	A	1001	DWT	C2-N3-C4	2.72	119.46	115.21
2	A	1001	DWT	C6-N1-C2	2.66	121.18	116.45
2	B	1001	DWT	FBI-CBH-CBF	-2.56	107.42	112.90
2	B	1001	DWT	CAH-NAI-NAJ	-2.52	110.21	112.71
2	A	1001	DWT	CBB-CBD-CBF	2.34	122.41	119.86
2	A	1001	DWT	C6-C5-C4	2.12	118.81	116.20
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
2	A	1001	DWT	CAL-C2-N3	2.05	120.80	117.40

There are no chirality outliers.

All (9) torsion outliers are listed below:

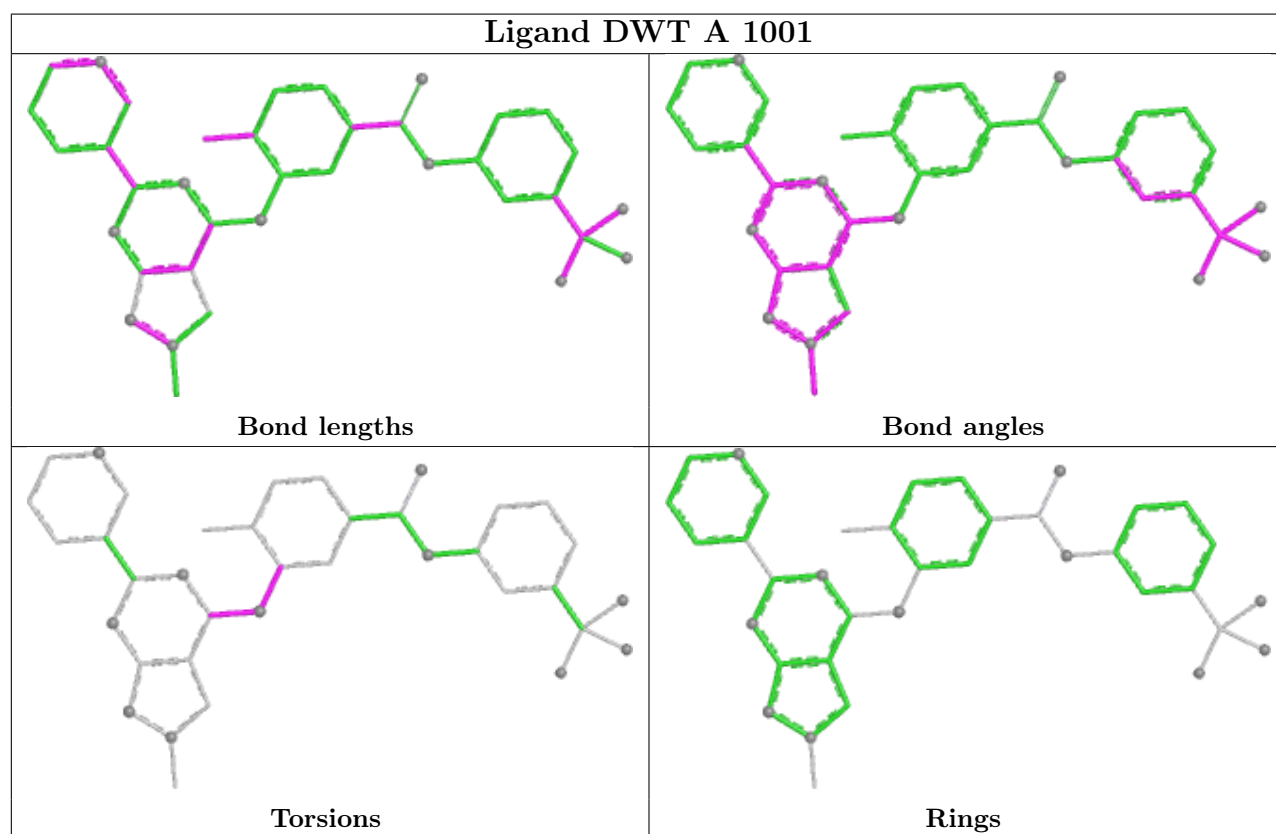
Mol	Chain	Res	Type	Atoms
2	A	1001	DWT	C5-C6-NAC-CAR
2	B	1001	DWT	C5-C6-NAC-CAR
2	A	1001	DWT	N1-C6-NAC-CAR
2	B	1001	DWT	N1-C6-NAC-CAR
2	A	1001	DWT	CAS-CAR-NAC-C6
2	B	1001	DWT	CAS-CAR-NAC-C6
2	A	1001	DWT	CAT-CAR-NAC-C6
2	B	1001	DWT	CAT-CAR-NAC-C6
3	B	1002	EDO	O1-C1-C2-O2

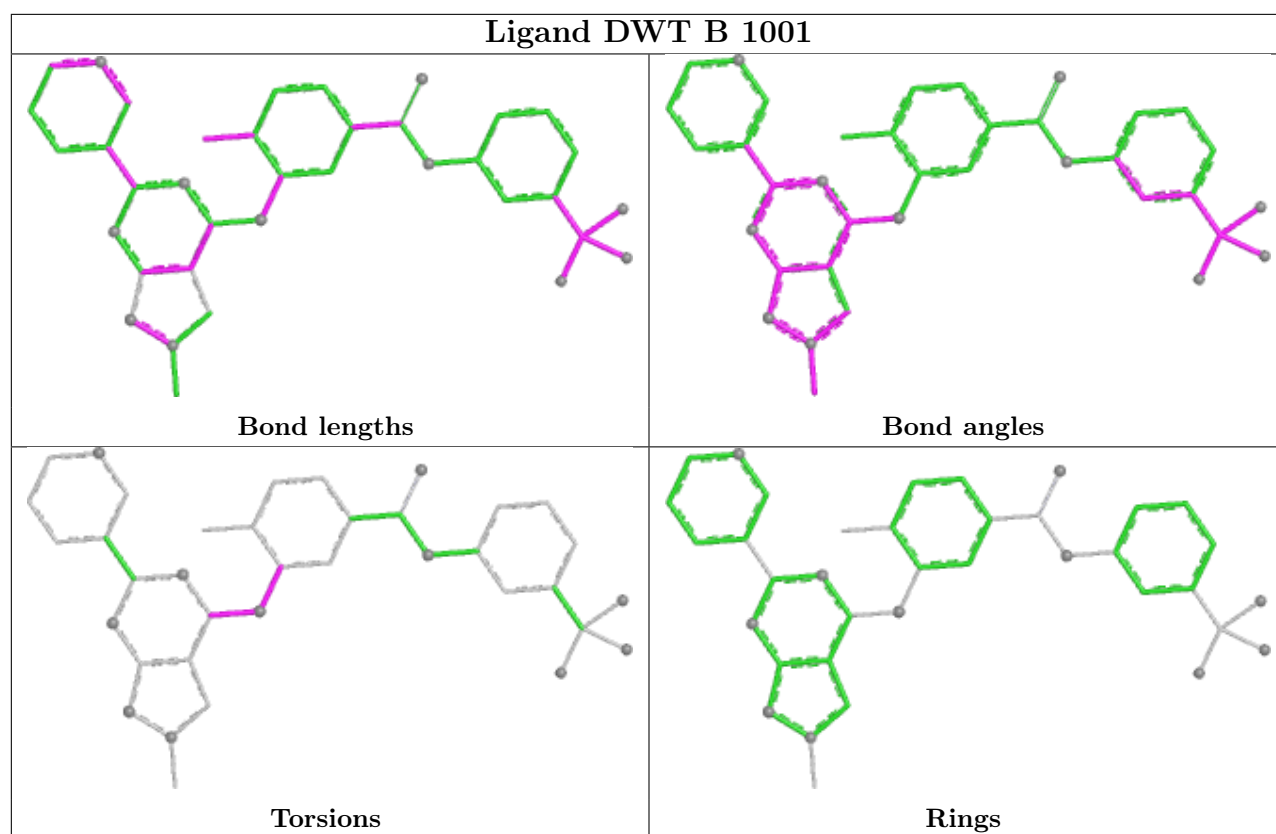
There are no ring outliers.

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

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	262/297 (88%)	1.29	58 (22%) 2 3	12, 32, 65, 83	9 (3%)
1	B	262/297 (88%)	1.32	55 (20%) 2 3	12, 32, 67, 88	10 (3%)
All	All	524/594 (88%)	1.31	113 (21%) 2 3	12, 32, 67, 88	19 (3%)

All (113) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	626	PHE	8.8
1	A	782	ILE	8.1
1	A	626	PHE	8.0
1	B	782	ILE	7.6
1	A	761	LEU	6.4
1	B	887	VAL	6.2
1	B	638	GLY	5.7
1	A	649	LEU	5.7
1	A	783	PRO	5.7
1	B	652	GLY	5.6
1	B	623	ALA	5.5
1	B	888	ALA	5.4
1	A	887	VAL	5.3
1	A	888	ALA	5.3
1	A	623	ALA	5.2
1	B	653	TYR	5.2
1	B	761	LEU	5.0
1	B	651	GLY	4.9
1	A	650	LYS	4.9
1	B	656	ARG	4.8
1	A	652	GLY	4.7
1	B	636	ALA	4.5
1	B	624	GLY	4.5
1	A	637	PRO	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	654	THR	4.5
1	A	653	TYR	4.5
1	A	734[A]	MET	4.5
1	A	654	THR	4.4
1	B	650	LYS	4.4
1	B	886	ILE	4.4
1	A	625	GLU	4.3
1	A	651	GLY	4.2
1	B	783	PRO	4.2
1	B	878	ILE	4.2
1	A	624	GLY	4.1
1	B	637	PRO	4.1
1	B	649	LEU	4.0
1	A	886	ILE	4.0
1	B	784	ILE	3.9
1	B	882	ALA	3.9
1	A	656	ARG	3.8
1	A	638	GLY	3.7
1	B	659	ARG	3.6
1	A	688	PRO	3.6
1	A	881	PRO	3.6
1	A	607	ALA	3.6
1	A	639	LYS	3.6
1	A	659	ARG	3.6
1	B	657	GLN	3.5
1	B	639	LYS	3.4
1	B	640	LYS	3.4
1	A	882	ALA	3.3
1	B	607	ALA	3.3
1	B	625	GLU	3.3
1	A	884	LEU	3.3
1	A	685	ASN	3.2
1	A	636	ALA	3.2
1	A	715	ILE	3.1
1	A	795	ARG	3.1
1	B	627	GLY	3.1
1	B	689	VAL	3.1
1	B	884	LEU	3.0
1	A	729[A]	ARG	3.0
1	B	671	PHE	2.9
1	A	640	LYS	2.9
1	B	633	ARG	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	620	VAL	2.9
1	A	784	ILE	2.9
1	B	620	VAL	2.8
1	B	688	PRO	2.8
1	A	682	VAL	2.7
1	B	880	ASN	2.7
1	B	794	PHE	2.7
1	A	878	ILE	2.7
1	B	715	ILE	2.7
1	A	880	ASN	2.7
1	B	881	PRO	2.6
1	B	687	MET	2.6
1	B	729[A]	ARG	2.6
1	A	617	ILE	2.6
1	A	627	GLY	2.6
1	A	657	GLN	2.6
1	A	793	ALA	2.5
1	A	760	GLY	2.5
1	B	885	LYS	2.5
1	A	643[A]	CYS	2.5
1	A	794	PHE	2.4
1	A	621	ILE	2.4
1	A	687	MET	2.4
1	B	760	GLY	2.4
1	A	686	SER	2.3
1	B	682	VAL	2.3
1	A	671	PHE	2.3
1	A	622	GLY	2.2
1	B	662	LEU	2.2
1	B	663	SER	2.2
1	B	670	GLN	2.2
1	A	608	LYS	2.2
1	A	689	VAL	2.2
1	B	643[A]	CYS	2.2
1	B	622	GLY	2.2
1	B	660	GLU	2.1
1	A	667	ILE	2.1
1	A	660	GLU	2.1
1	B	629	VAL	2.1
1	A	658	ARG	2.1
1	A	684	THR	2.1
1	A	610	ILE	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	667	ILE	2.1
1	B	684	THR	2.0
1	B	793	ALA	2.0
1	A	663	SER	2.0
1	B	753	VAL	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](#)

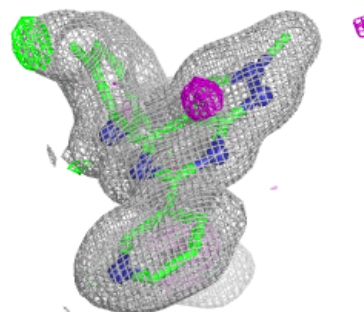
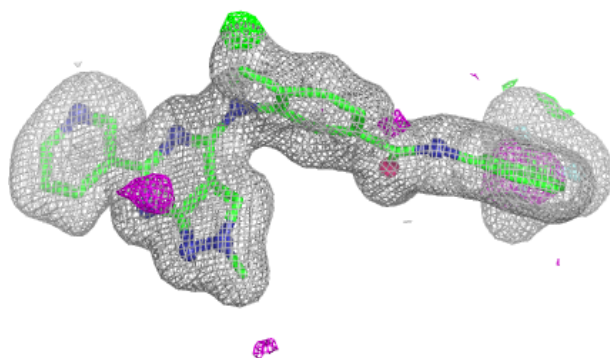
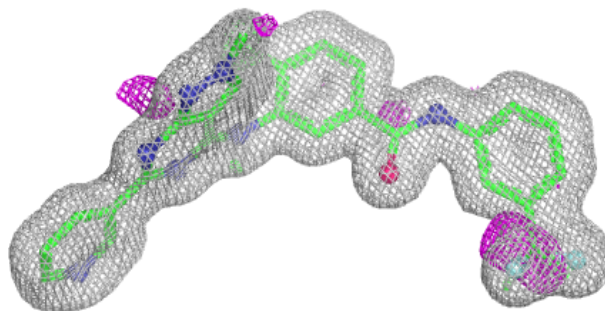
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
3	EDO	B	1002	4/4	0.64	0.21	48,48,50,55	0
2	DWT	B	1001	37/37	0.96	0.07	23,28,31,33	0
2	DWT	A	1001	37/37	0.96	0.08	23,27,31,32	0

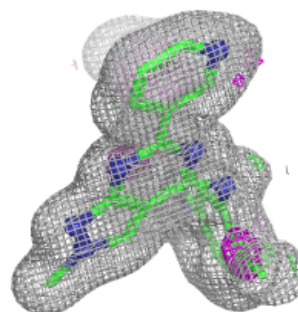
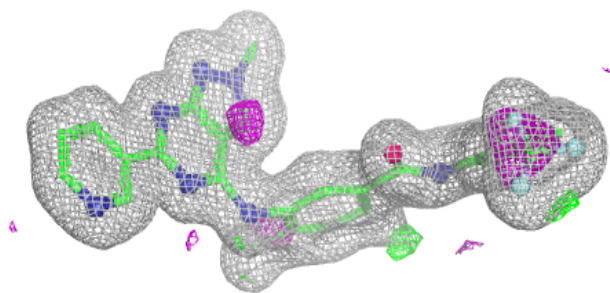
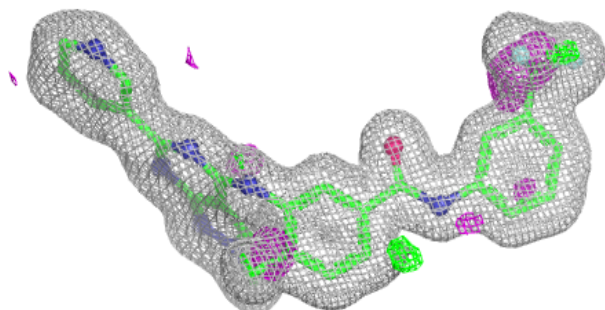
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around DWT 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 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.