



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 26, 2024 – 08:21 AM EDT

PDB ID : 6TFW  
Title : Crystal Structure of EGFR T790M/V948R in Complex with Covalent Pyrrolopyrimidine 18d  
Authors : Niggenaber, J.; Mueller, M.P.; Rauh, D.  
Deposited on : 2019-11-14  
Resolution : 2.00 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](mailto: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>.

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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 : 2.37.1  
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

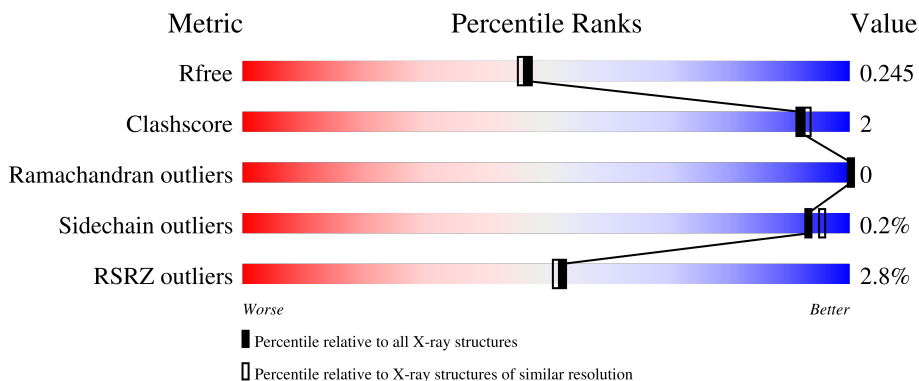
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

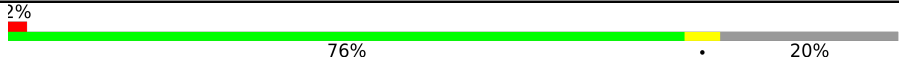
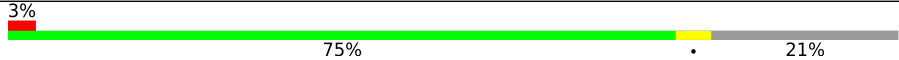
The reported resolution of this entry is 2.00 Å.

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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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  $\geq 3$ , 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	333	 2% 76% 20%
1	B	333	 3% 75% 21%

## 2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 4265 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.

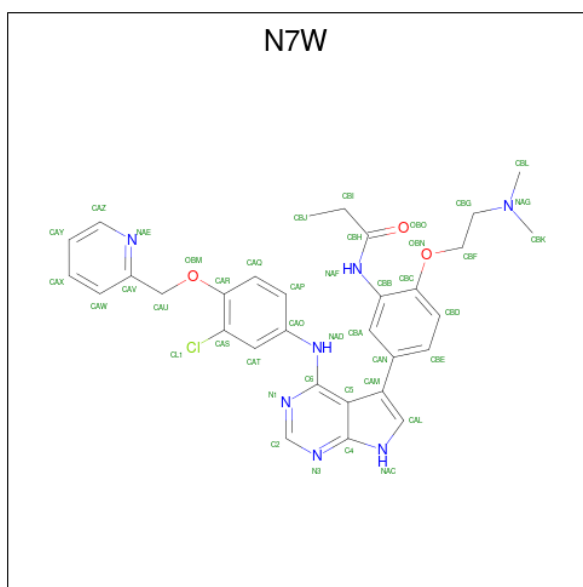
- Molecule 1 is a protein called Epidermal growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	266	2065	1336	348	366	15	0	0	0
1	B	264	2032	1311	341	364	16	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	690	GLY	-	expression tag	UNP P00533
A	691	SER	-	expression tag	UNP P00533
A	692	HIS	-	expression tag	UNP P00533
A	693	MET	-	expression tag	UNP P00533
A	694	ALA	-	expression tag	UNP P00533
A	790	MET	THR	engineered mutation	UNP P00533
A	948	ARG	VAL	engineered mutation	UNP P00533
B	690	GLY	-	expression tag	UNP P00533
B	691	SER	-	expression tag	UNP P00533
B	692	HIS	-	expression tag	UNP P00533
B	693	MET	-	expression tag	UNP P00533
B	694	ALA	-	expression tag	UNP P00533
B	790	MET	THR	engineered mutation	UNP P00533
B	948	ARG	VAL	engineered mutation	UNP P00533

- Molecule 2 is {N}-[5-[4-[[3-chloranyl-4-(pyridin-2-ylmethoxy)phenyl]amino]-7 {H}-pyrrolo [2,3-d]pyrimidin-5-yl]-2-[2-(dimethylamino)ethoxy]phenyl]propanamide (three-letter code: N7W) (formula: C<sub>31</sub>H<sub>32</sub>ClN<sub>7</sub>O<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Cl	N			O
2	A	1	42	31	1	7	3	0	0
2	B	1	42	31	1	7	3	0	0

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	S		
3	A	1	5	4	1	0	0
3	A	1	5	4	1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total O S 5 4 1	0	0
3	B	1	Total O S 5 4 1	0	0
3	B	1	Total O S 5 4 1	0	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Mg 1 1	0	0
4	B	1	Total Mg 1 1	0	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	B	1	Total Cl 1 1	0	0

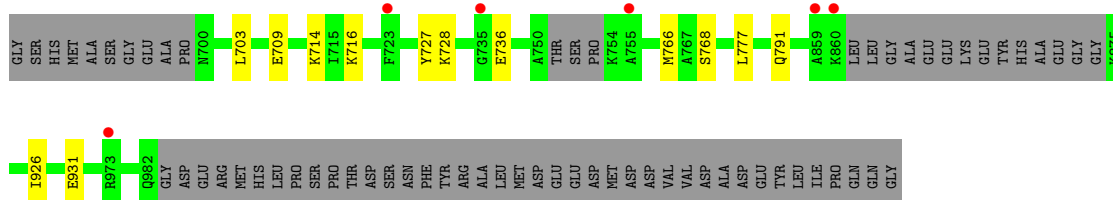
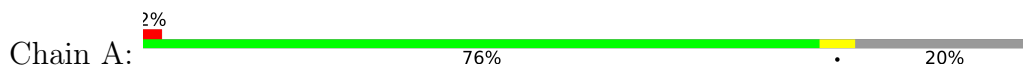
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	33	Total O 33 33	0	0
6	B	22	Total O 22 22	0	0

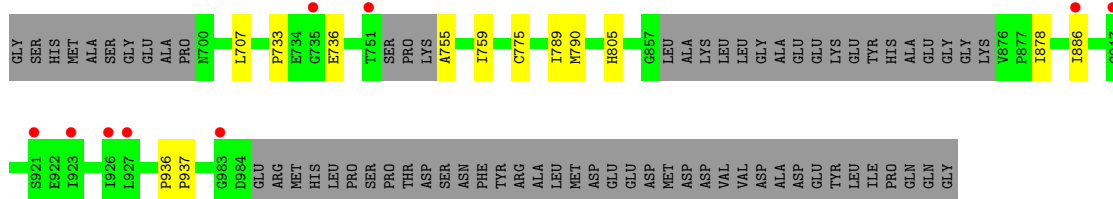
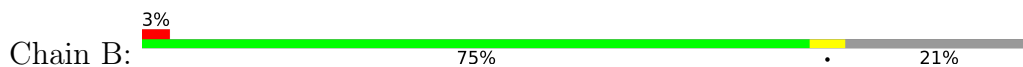
### 3 Residue-property plots [i](#)

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: Epidermal growth factor receptor



- Molecule 1: Epidermal growth factor receptor



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	76.10Å 81.20Å 90.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.30 – 2.00 47.30 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.30-2.00) 100.0 (47.30-2.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.55 (at 2.00Å)	Xtrriage
Refinement program	PHENIX 1.16_3549	Depositor
R, $R_{free}$	0.223 , 0.245 0.223 , 0.245	Depositor DCC
$R_{free}$ test set	1924 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	45.9	Xtrriage
Anisotropy	0.485	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.40 , 66.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	4265	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	58.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.84% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: CL, SO4, MG, N7W

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	0.24	0/2110	0.39	0/2867
1	B	0.23	0/2076	0.40	0/2824
All	All	0.23	0/4186	0.39	0/5691

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	2065	0	2044	7	0
1	B	2032	0	1994	7	0
2	A	42	0	0	0	0
2	B	42	0	0	0	0
3	A	10	0	0	0	0
3	B	15	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	33	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	22	0	0	0	0
All	All	4265	0	4038	13	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 2.

All (13) 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:707:LEU:HD12	1:B:789:ILE:HG13	1.84	0.59
1:A:736:GLU:HG2	1:B:805:HIS:NE2	2.29	0.48
1:A:709:GLU:OE1	1:A:709:GLU:N	2.38	0.48
1:B:775:CYS:HB3	1:B:790:MET:SD	2.54	0.48
1:B:733:PRO:HG2	1:B:736:GLU:HB2	1.96	0.47
1:B:878:ILE:HG23	1:B:886:ILE:HD12	1.98	0.45
1:A:714:LYS:HD3	1:A:727:TYR:CD2	2.52	0.44
1:B:755:ALA:O	1:B:759:ILE:HG12	2.19	0.43
1:A:703:LEU:HD13	1:A:768:SER:HA	2.01	0.42
1:A:926:ILE:HG23	1:A:931:GLU:HB2	2.03	0.41
1:B:936:PRO:HA	1:B:937:PRO:HD3	1.96	0.41
1:A:716:LYS:O	1:A:728:LYS:N	2.51	0.41
1:A:766:MET:HE3	1:A:777:LEU:HD22	2.03	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	260/333 (78%)	256 (98%)	4 (2%)	0	100	100
1	B	258/333 (78%)	254 (98%)	4 (2%)	0	100	100
All	All	518/666 (78%)	510 (98%)	8 (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	216/291 (74%)	215 (100%)	1 (0%)	88	92
1	B	212/291 (73%)	212 (100%)	0	100	100
All	All	428/582 (74%)	427 (100%)	1 (0%)	93	95

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	791	GLN

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 [i](#)

Of 11 ligands modelled in this entry, 4 are monoatomic - leaving 7 for Mogul analysis.

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$
3	SO4	A	1103	-	4,4,4	0.15	0	6,6,6	0.08	0
2	N7W	A	1101	1	45,46,46	2.32	11 (24%)	54,63,63	1.77	10 (18%)
2	N7W	B	1105	1	45,46,46	2.28	12 (26%)	54,63,63	2.00	13 (24%)
3	SO4	B	1103	-	4,4,4	0.15	0	6,6,6	0.05	0
3	SO4	B	1102	-	4,4,4	0.14	0	6,6,6	0.05	0
3	SO4	B	1101	-	4,4,4	0.14	0	6,6,6	0.06	0
3	SO4	A	1102	-	4,4,4	0.14	0	6,6,6	0.07	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	N7W	A	1101	1	-	6/25/25/25	0/5/5/5
2	N7W	B	1105	1	-	4/25/25/25	0/5/5/5

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1105	N7W	CAM-CAN	-9.01	1.33	1.49
2	A	1101	N7W	CAM-CAN	-8.96	1.33	1.49
2	A	1101	N7W	C6-C5	-6.93	1.35	1.44
2	B	1105	N7W	C6-C5	-6.76	1.35	1.44
2	A	1101	N7W	CAU-CAV	-4.40	1.39	1.50
2	B	1105	N7W	CAU-CAV	-4.32	1.39	1.50
2	A	1101	N7W	CBB-NAF	-4.18	1.33	1.41
2	A	1101	N7W	C2-N3	4.18	1.38	1.32
2	B	1105	N7W	C2-N3	3.93	1.38	1.32
2	A	1101	N7W	CAM-C5	-3.80	1.35	1.41
2	B	1105	N7W	CAM-C5	-3.73	1.35	1.41
2	B	1105	N7W	CBB-NAF	-3.71	1.34	1.41
2	A	1101	N7W	C5-C4	-2.96	1.35	1.43
2	B	1105	N7W	C5-C4	-2.87	1.35	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1105	N7W	CAZ-NAE	2.82	1.40	1.34
2	A	1101	N7W	CAZ-NAE	2.78	1.40	1.34
2	A	1101	N7W	C2-N1	2.68	1.38	1.33
2	B	1105	N7W	C2-N1	2.65	1.38	1.33
2	A	1101	N7W	CAO-NAD	-2.44	1.35	1.40
2	B	1105	N7W	CAO-NAD	-2.28	1.35	1.40
2	B	1105	N7W	C4-N3	-2.16	1.34	1.37
2	B	1105	N7W	CAL-NAC	-2.14	1.32	1.36
2	A	1101	N7W	C4-N3	-2.00	1.34	1.37

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1105	N7W	N3-C2-N1	-7.56	116.86	128.68
2	A	1101	N7W	N3-C2-N1	-7.56	116.87	128.68
2	B	1105	N7W	C2-N1-C6	6.01	121.74	116.59
2	A	1101	N7W	C2-N1-C6	5.32	121.16	116.59
2	B	1105	N7W	CAM-C5-C4	-3.87	104.45	107.54
2	B	1105	N7W	CBA-CAN-CAM	-3.85	114.39	120.70
2	A	1101	N7W	CAO-NAD-C6	-3.77	118.43	128.26
2	A	1101	N7W	CAM-C5-C4	-3.37	104.85	107.54
2	B	1105	N7W	CAO-NAD-C6	-3.24	119.81	128.26
2	B	1105	N7W	CBE-CAN-CAM	3.16	126.17	120.86
2	A	1101	N7W	C2-N3-C4	2.91	120.28	113.45
2	B	1105	N7W	CBC-CBB-NAF	2.83	121.74	116.66
2	B	1105	N7W	C2-N3-C4	2.80	120.01	113.45
2	A	1101	N7W	CBF-OBN-CBC	-2.48	111.62	117.69
2	B	1105	N7W	CAZ-NAE-CAV	2.41	120.72	117.42
2	B	1105	N7W	CAU-OBM-CAR	-2.38	113.08	117.76
2	B	1105	N7W	CBF-OBN-CBC	-2.35	111.92	117.69
2	A	1101	N7W	CBB-NAF-CBH	-2.31	118.46	126.57
2	A	1101	N7W	CAU-OBM-CAR	-2.30	113.23	117.76
2	A	1101	N7W	CAZ-NAE-CAV	2.21	120.45	117.42
2	B	1105	N7W	CAY-CAZ-NAE	-2.19	119.84	123.43
2	B	1105	N7W	OBN-CBC-CBB	2.13	118.42	114.92
2	A	1101	N7W	CAY-CAZ-NAE	-2.13	119.95	123.43

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1101	N7W	OBN-CBF-CBG-NAG

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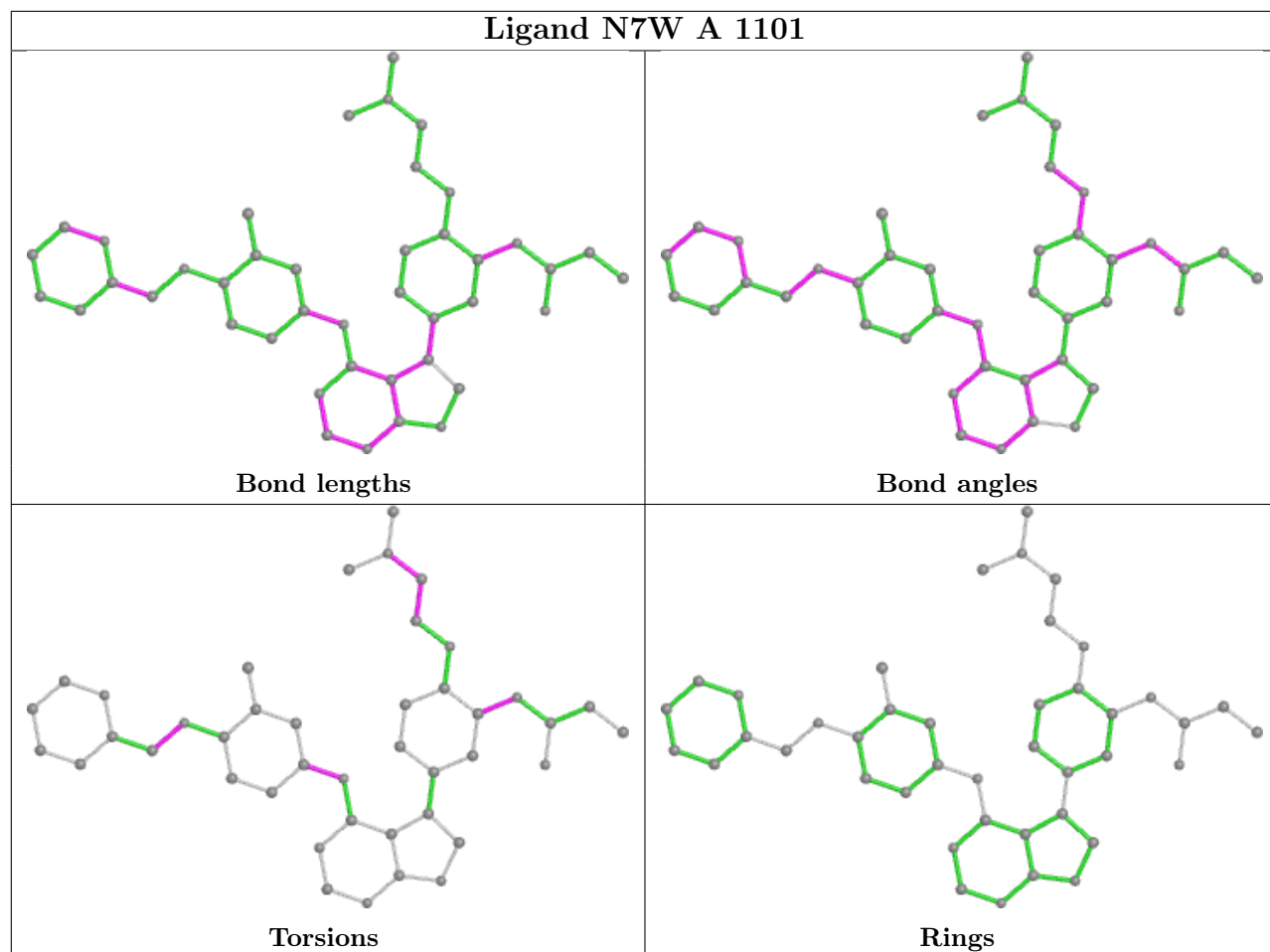
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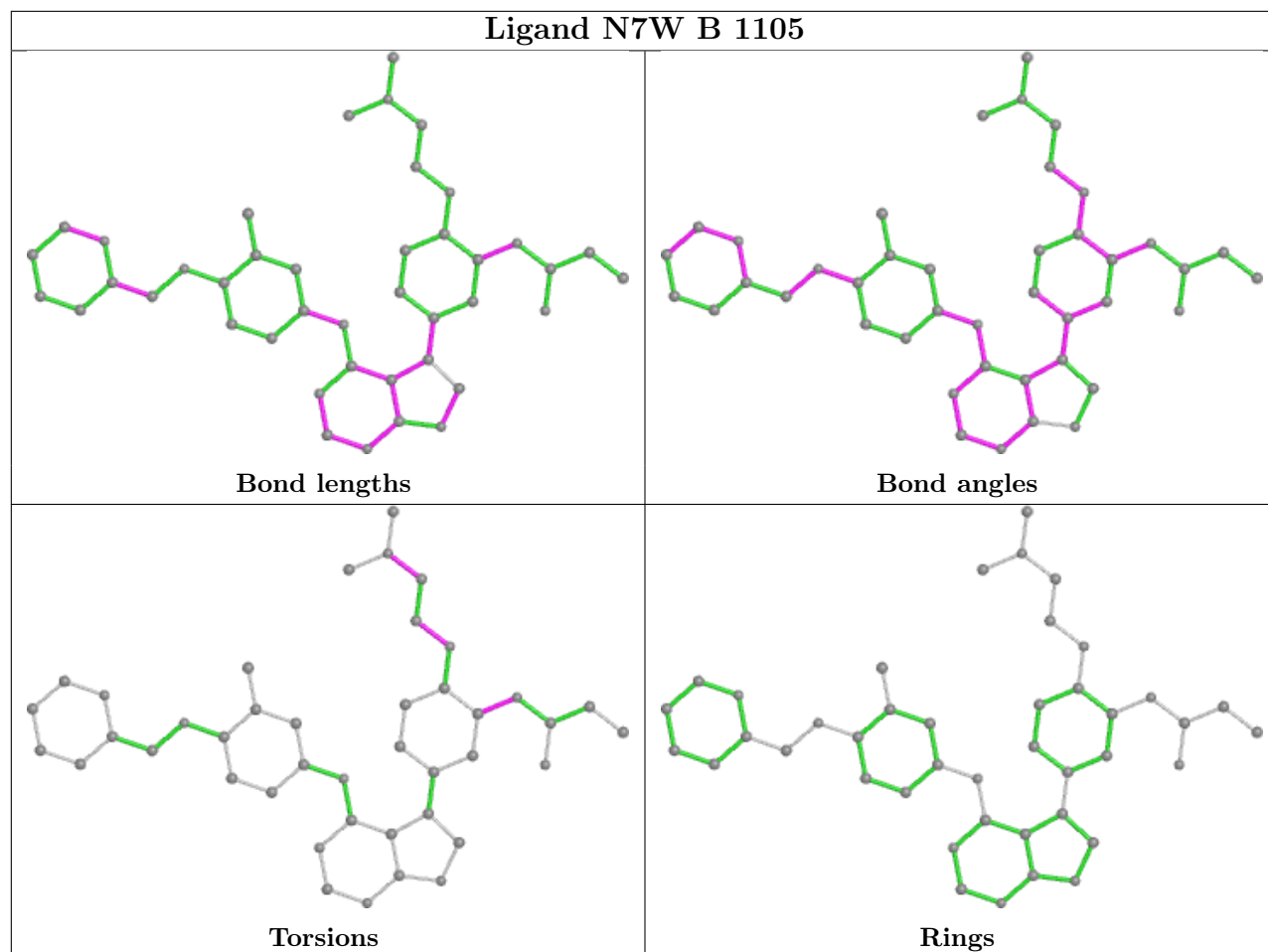
Mol	Chain	Res	Type	Atoms
2	B	1105	N7W	CBF-CBG-NAG-CBK
2	A	1101	N7W	CAV-CAU-OBM-CAR
2	B	1105	N7W	CBC-CBB-NAF-CBH
2	B	1105	N7W	CBF-CBG-NAG-CBL
2	A	1101	N7W	CBF-CBG-NAG-CBK
2	A	1101	N7W	CBF-CBG-NAG-CBL
2	A	1101	N7W	CBC-CBB-NAF-CBH
2	B	1105	N7W	CBG-CBF-OBN-CBC
2	A	1101	N7W	CAP-CAO-NAD-C6

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.





## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	266/333 (79%)	0.14	6 (2%) 60 59	36, 53, 81, 112	0
1	B	264/333 (79%)	0.29	9 (3%) 45 44	36, 60, 87, 113	0
All	All	530/666 (79%)	0.22	15 (2%) 53 51	36, 56, 85, 113	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	927	LEU	4.3
1	B	926	ILE	4.0
1	B	735	GLY	3.3
1	B	886	ILE	3.3
1	A	735	GLY	3.0
1	B	751	THR	2.9
1	B	923	ILE	2.9
1	A	860	LYS	2.8
1	A	859	ALA	2.7
1	A	755	ALA	2.5
1	B	917	GLY	2.3
1	B	921	SER	2.3
1	A	723	PHE	2.1
1	B	983	GLY	2.1
1	A	973	ARG	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.

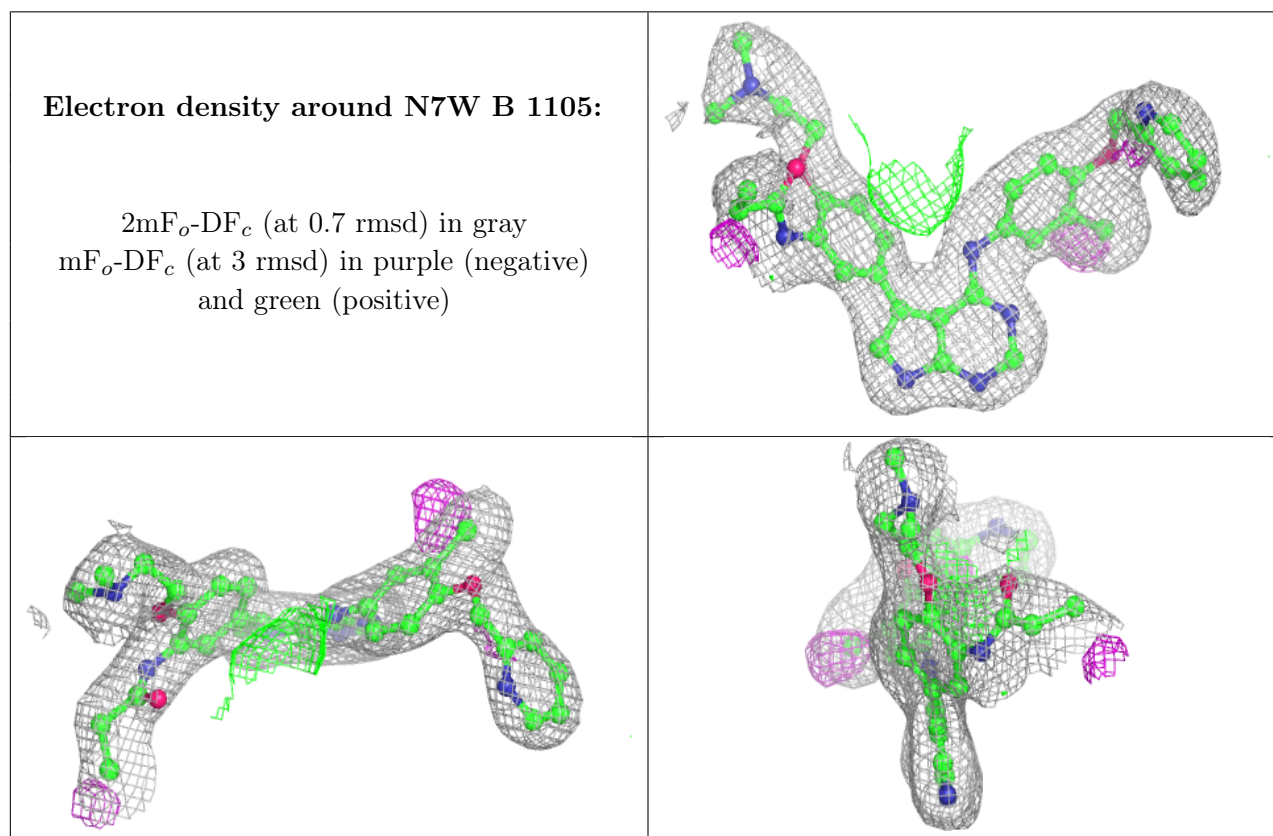


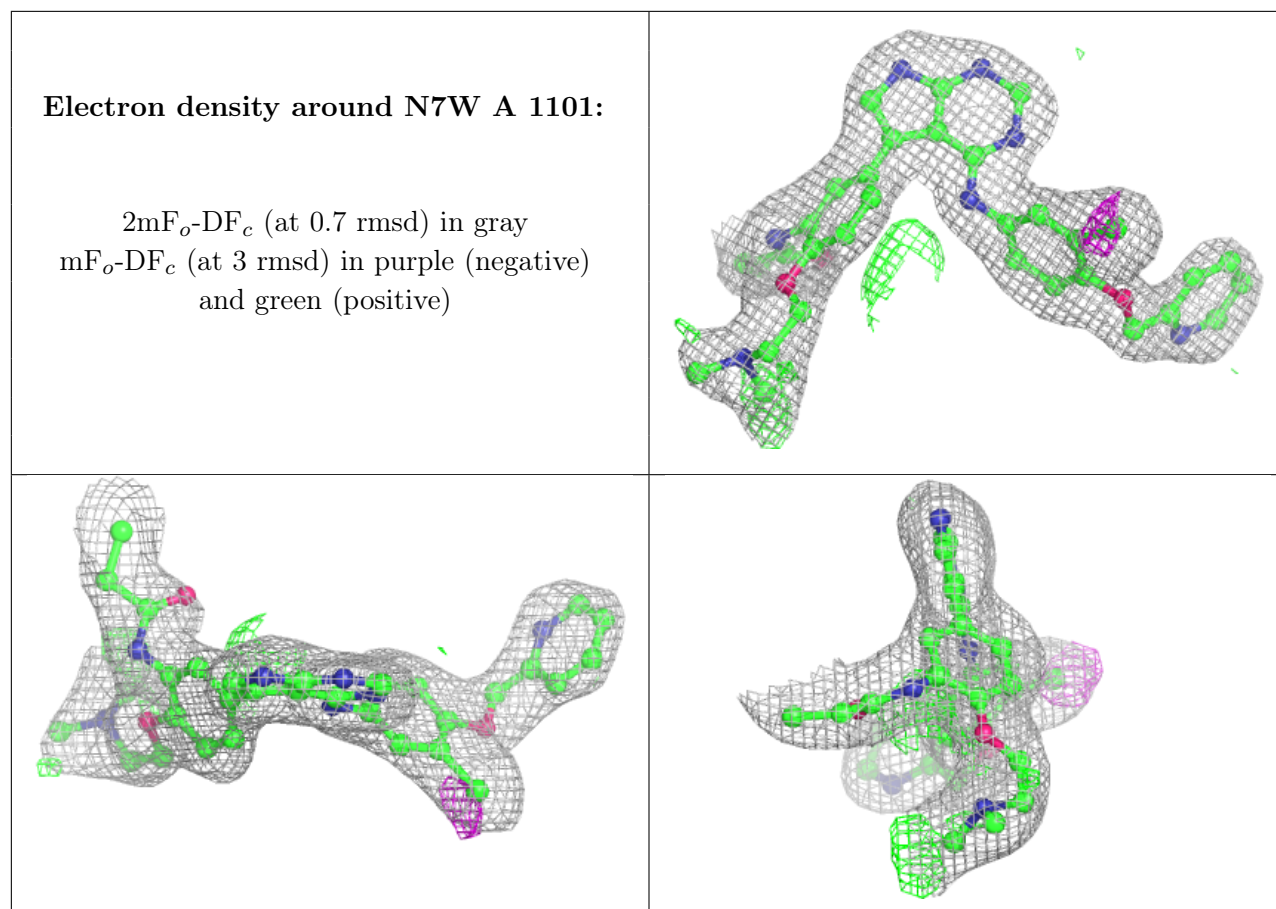
## 6.4 Ligands [i](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
4	MG	B	1106	1/1	0.56	0.26	83,83,83,83	0
4	MG	A	1104	1/1	0.64	0.08	87,87,87,87	0
5	CL	A	1105	1/1	0.79	0.29	90,90,90,90	0
2	N7W	B	1105	42/42	0.88	0.13	47,55,73,74	0
2	N7W	A	1101	42/42	0.90	0.12	44,50,62,68	0
3	SO4	B	1102	5/5	0.91	0.17	94,95,96,96	0
5	CL	B	1104	1/1	0.92	0.22	97,97,97,97	0
3	SO4	B	1103	5/5	0.95	0.11	94,96,97,99	0
3	SO4	A	1103	5/5	0.97	0.17	67,68,70,73	0
3	SO4	A	1102	5/5	0.98	0.13	62,62,63,63	0
3	SO4	B	1101	5/5	0.98	0.15	57,59,61,64	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.





## 6.5 Other polymers [i](#)

There are no such residues in this entry.