



# wwPDB X-ray Structure Validation Summary Report ⓘ

May 15, 2020 – 08:01 pm BST

PDB ID : 5MF2  
Title : Bacteriophage T5 distal tail protein pb9 co-crystallized with Tb-Xo4  
Authors : Engilberge, S.; Riobe, F.; Di Pietro, S.; Lassalle, L.; Arnaud, C.-A.; Breyton, C.; Madern, D.; Coquelle, N.; Maury, O.; Girard, E.  
Deposited on : 2016-11-17  
Resolution : 2.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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.

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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 : 2.11  
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

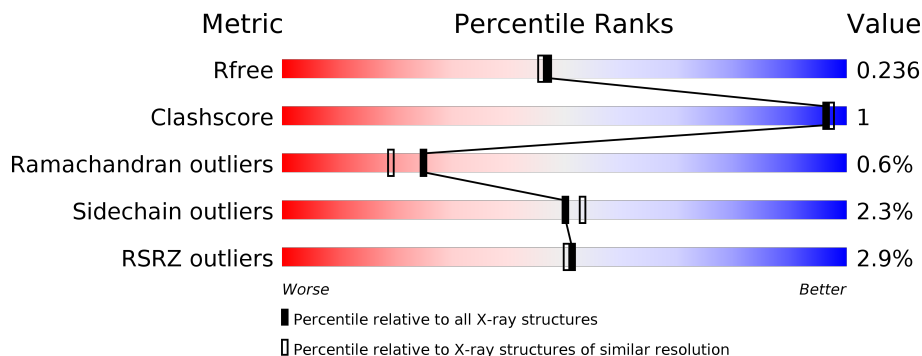
# 1 Overall quality at a glance

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 on 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	217	
1	B	217	
1	C	217	
1	D	217	

## 2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 11918 atoms, of which 5722 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 Distal tail protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	185	2874	937	1415	238	282	2	0	0	0
1	B	173	2743	891	1363	222	265	2	0	1	0
1	C	187	2914	945	1438	240	289	2	0	0	0
1	D	187	2914	946	1437	240	289	2	0	1	0

There are 52 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	205	GLU	-	expression tag	UNP Q6QGE8
A	206	ASN	-	expression tag	UNP Q6QGE8
A	207	LEU	-	expression tag	UNP Q6QGE8
A	208	TYR	-	expression tag	UNP Q6QGE8
A	209	PHE	-	expression tag	UNP Q6QGE8
A	210	GLN	-	expression tag	UNP Q6QGE8
A	211	GLY	-	expression tag	UNP Q6QGE8
A	212	HIS	-	expression tag	UNP Q6QGE8
A	213	HIS	-	expression tag	UNP Q6QGE8
A	214	HIS	-	expression tag	UNP Q6QGE8
A	215	HIS	-	expression tag	UNP Q6QGE8
A	216	HIS	-	expression tag	UNP Q6QGE8
A	217	HIS	-	expression tag	UNP Q6QGE8
B	205	GLU	-	expression tag	UNP Q6QGE8
B	206	ASN	-	expression tag	UNP Q6QGE8
B	207	LEU	-	expression tag	UNP Q6QGE8
B	208	TYR	-	expression tag	UNP Q6QGE8
B	209	PHE	-	expression tag	UNP Q6QGE8
B	210	GLN	-	expression tag	UNP Q6QGE8
B	211	GLY	-	expression tag	UNP Q6QGE8
B	212	HIS	-	expression tag	UNP Q6QGE8

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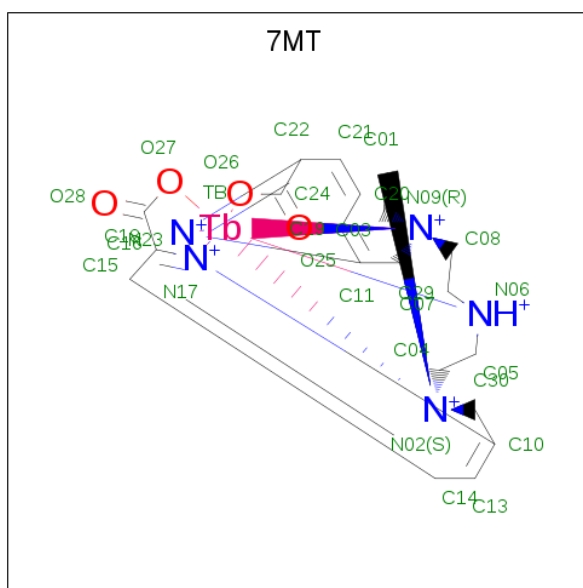
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Chain	Residue	Modelled	Actual	Comment	Reference
B	213	HIS	-	expression tag	UNP Q6QGE8
B	214	HIS	-	expression tag	UNP Q6QGE8
B	215	HIS	-	expression tag	UNP Q6QGE8
B	216	HIS	-	expression tag	UNP Q6QGE8
B	217	HIS	-	expression tag	UNP Q6QGE8
C	205	GLU	-	expression tag	UNP Q6QGE8
C	206	ASN	-	expression tag	UNP Q6QGE8
C	207	LEU	-	expression tag	UNP Q6QGE8
C	208	TYR	-	expression tag	UNP Q6QGE8
C	209	PHE	-	expression tag	UNP Q6QGE8
C	210	GLN	-	expression tag	UNP Q6QGE8
C	211	GLY	-	expression tag	UNP Q6QGE8
C	212	HIS	-	expression tag	UNP Q6QGE8
C	213	HIS	-	expression tag	UNP Q6QGE8
C	214	HIS	-	expression tag	UNP Q6QGE8
C	215	HIS	-	expression tag	UNP Q6QGE8
C	216	HIS	-	expression tag	UNP Q6QGE8
C	217	HIS	-	expression tag	UNP Q6QGE8
D	205	GLU	-	expression tag	UNP Q6QGE8
D	206	ASN	-	expression tag	UNP Q6QGE8
D	207	LEU	-	expression tag	UNP Q6QGE8
D	208	TYR	-	expression tag	UNP Q6QGE8
D	209	PHE	-	expression tag	UNP Q6QGE8
D	210	GLN	-	expression tag	UNP Q6QGE8
D	211	GLY	-	expression tag	UNP Q6QGE8
D	212	HIS	-	expression tag	UNP Q6QGE8
D	213	HIS	-	expression tag	UNP Q6QGE8
D	214	HIS	-	expression tag	UNP Q6QGE8
D	215	HIS	-	expression tag	UNP Q6QGE8
D	216	HIS	-	expression tag	UNP Q6QGE8
D	217	HIS	-	expression tag	UNP Q6QGE8

- Molecule 2 is TERBIUM(III) ION (three-letter code: Tb) (formula: Tb).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	5	Total Tb 5 5	0	0
2	A	3	Total Tb 3 3	0	0
2	D	2	Total Tb 2 2	0	0
2	C	2	Total Tb 2 2	0	0

- Molecule 3 is Tb-Xo4 (three-letter code: 7MT) (formula:  $C_{20}H_{23}N_5O_4Tb$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	N	O			Tb
3	A	1	Total	C	H	N	O	Tb	0	0
			53	20	23	5	4	1		
3	C	1	Total	C	H	N	O	Tb	0	0
			53	20	23	5	4	1		
3	D	1	Total	C	H	N	O	Tb	0	0
			53	20	23	5	4	1		

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
4	B	1	Total	Cl	0	0
			1	1		
4	A	2	Total	Cl	0	0
			2	2		
4	D	1	Total	Cl	0	0
			1	1		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	
5	A	90	Total	O	0	0
			90	90		
5	B	69	Total	O	0	0
			69	69		
5	C	72	Total	O	0	0
			72	72		

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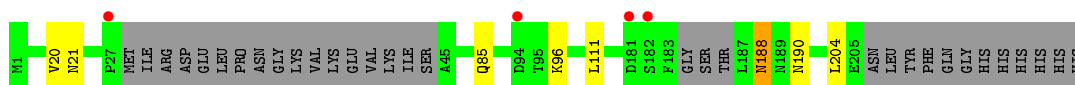
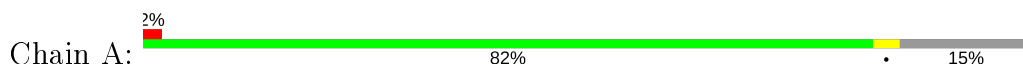
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
5	D	67	Total	O	0	0
			67	67		

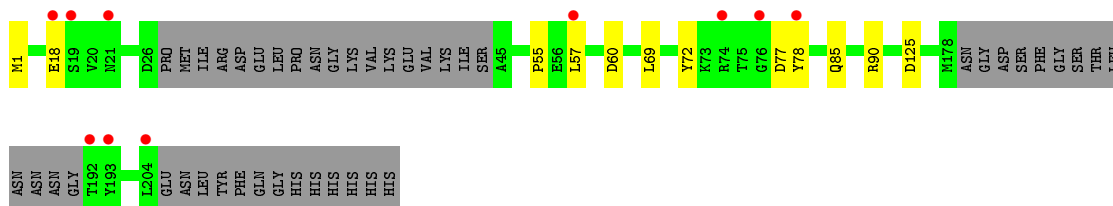
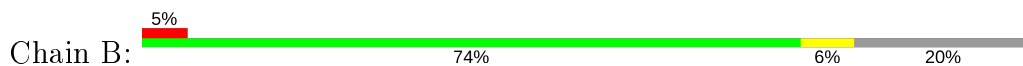
### 3 Residue-property plots [i](#)

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.

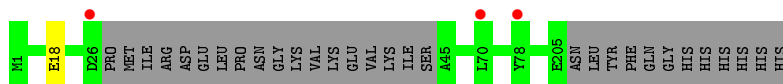
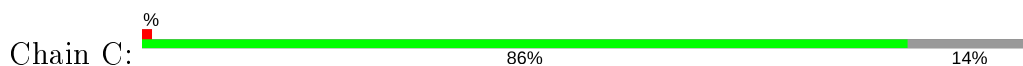
- Molecule 1: Distal tail protein



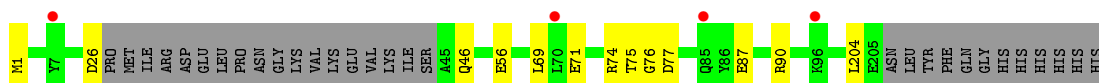
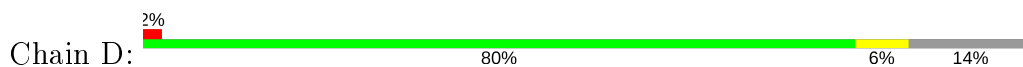
- Molecule 1: Distal tail protein



- Molecule 1: Distal tail protein



- Molecule 1: Distal tail protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.46 Å 95.50 Å 71.49 Å 90.00° 103.46° 90.00°	Depositor
Resolution (Å)	48.38 – 2.00 48.38 – 2.00	Depositor EDS
% Data completeness (in resolution range)	98.9 (48.38-2.00) 98.4 (48.38-2.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.14 (at 2.00 Å)	Xtrriage
Refinement program	PHENIX (1.11_2567: ???)	Depositor
R, $R_{free}$	0.210 , 0.236 0.210 , 0.236	Depositor DCC
$R_{free}$ test set	3103 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	37.5	Xtrriage
Anisotropy	0.419	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.39 , 39.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.46$ , $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	0.236 for l,-k,h	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	11918	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	53.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.94% 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, TB, 7MT

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	0.27	0/1495	0.46	0/2032
1	B	0.26	0/1417	0.46	0/1925
1	C	0.26	0/1512	0.45	0/2055
1	D	0.27	0/1516	0.45	0/2061
All	All	0.27	0/5940	0.46	0/8073

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	1459	1415	1416	1	0
1	B	1380	1363	1363	3	0
1	C	1476	1438	1439	1	0
1	D	1477	1437	1439	6	0
2	A	3	0	0	0	0
2	B	5	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
3	A	30	23	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	30	23	0	1	0
3	D	30	23	0	0	0
4	A	2	0	0	0	0
4	B	1	0	0	0	0
4	D	1	0	0	0	0
5	A	90	0	0	0	1
5	B	69	0	0	0	0
5	C	72	0	0	0	0
5	D	67	0	0	3	1
All	All	6196	5722	5657	11	1

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.

The worst 5 of 11 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:D:71:GLU:OE2	1:D:74:ARG:NH1	2.17	0.78
1:C:18:GLU:OE2	3:C:303:7MT:O27	2.11	0.69
1:D:75:THR:O	1:D:77:ASP:N	2.27	0.68
1:D:87:GLU:OE1	5:D:401:HOH:O	2.13	0.67
1:D:26:ASP:O	5:D:402:HOH:O	2.17	0.59

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:488:HOH:O	5:D:467:HOH:O[2_755]	2.14	0.06

## 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	179/217 (82%)	173 (97%)	5 (3%)	1 (1%)	25	19
1	B	168/217 (77%)	164 (98%)	2 (1%)	2 (1%)	13	7
1	C	183/217 (84%)	182 (100%)	1 (0%)	0	100	100
1	D	184/217 (85%)	180 (98%)	3 (2%)	1 (0%)	29	23
All	All	714/868 (82%)	699 (98%)	11 (2%)	4 (1%)	25	19

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	76	GLY
1	B	55	PRO
1	B	57	LEU
1	A	188	ASN

### 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	161/193 (83%)	155 (96%)	6 (4%)	34	32
1	B	155/193 (80%)	150 (97%)	5 (3%)	39	38
1	C	165/193 (86%)	165 (100%)	0	100	100
1	D	165/193 (86%)	161 (98%)	4 (2%)	49	51
All	All	646/772 (84%)	631 (98%)	15 (2%)	50	53

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	18	GLU
1	B	60	ASP
1	D	56	GLU
1	A	204	LEU
1	D	46	GLN

Some 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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 19 ligands modelled in this entry, 16 are monoatomic - leaving 3 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	7MT	A	304	1	21,38,38	1.33	2 (9%)	20,76,76	1.43	3 (15%)
3	7MT	D	303	1	21,38,38	1.50	2 (9%)	20,76,76	1.77	6 (30%)
3	7MT	C	303	1	21,38,38	1.45	2 (9%)	20,76,76	1.62	4 (20%)

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	303	7MT	C30-C10	4.17	1.56	1.51
3	C	303	7MT	C30-C10	3.96	1.55	1.51
3	A	304	7MT	C30-C10	3.74	1.55	1.51
3	D	303	7MT	C29-C11	3.71	1.55	1.51
3	C	303	7MT	C29-C11	3.68	1.55	1.51

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
3	D	303	7MT	O26-C24-C22	3.20	120.45	115.78
3	C	303	7MT	O27-C18-O28	-3.00	119.89	125.24
3	D	303	7MT	O26-C24-O25	-2.98	119.92	125.24
3	D	303	7MT	O27-C18-O28	-2.98	119.93	125.24
3	D	303	7MT	O27-C18-C16	2.95	120.08	115.78

There are no chirality outliers.

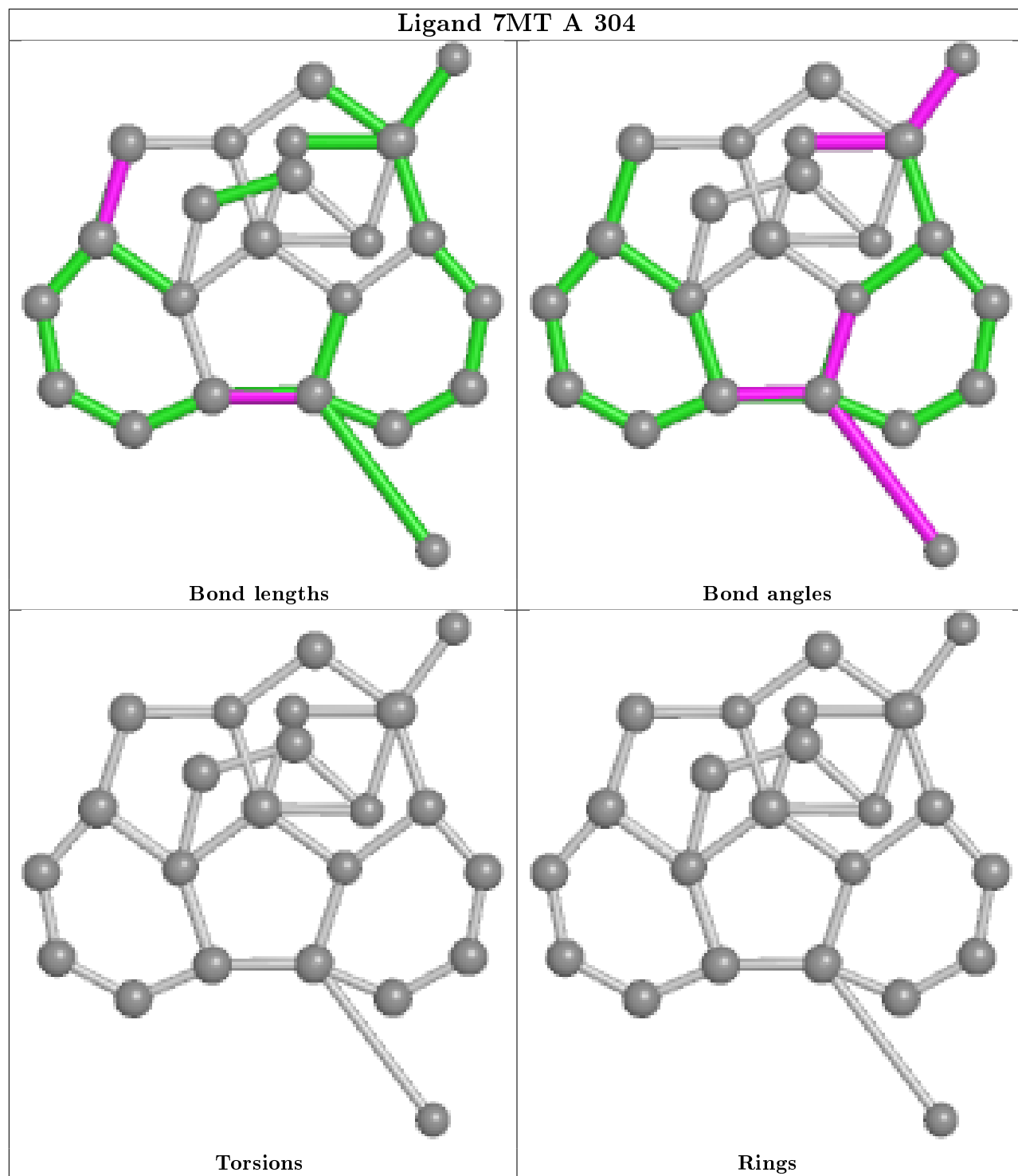
There are no torsion outliers.

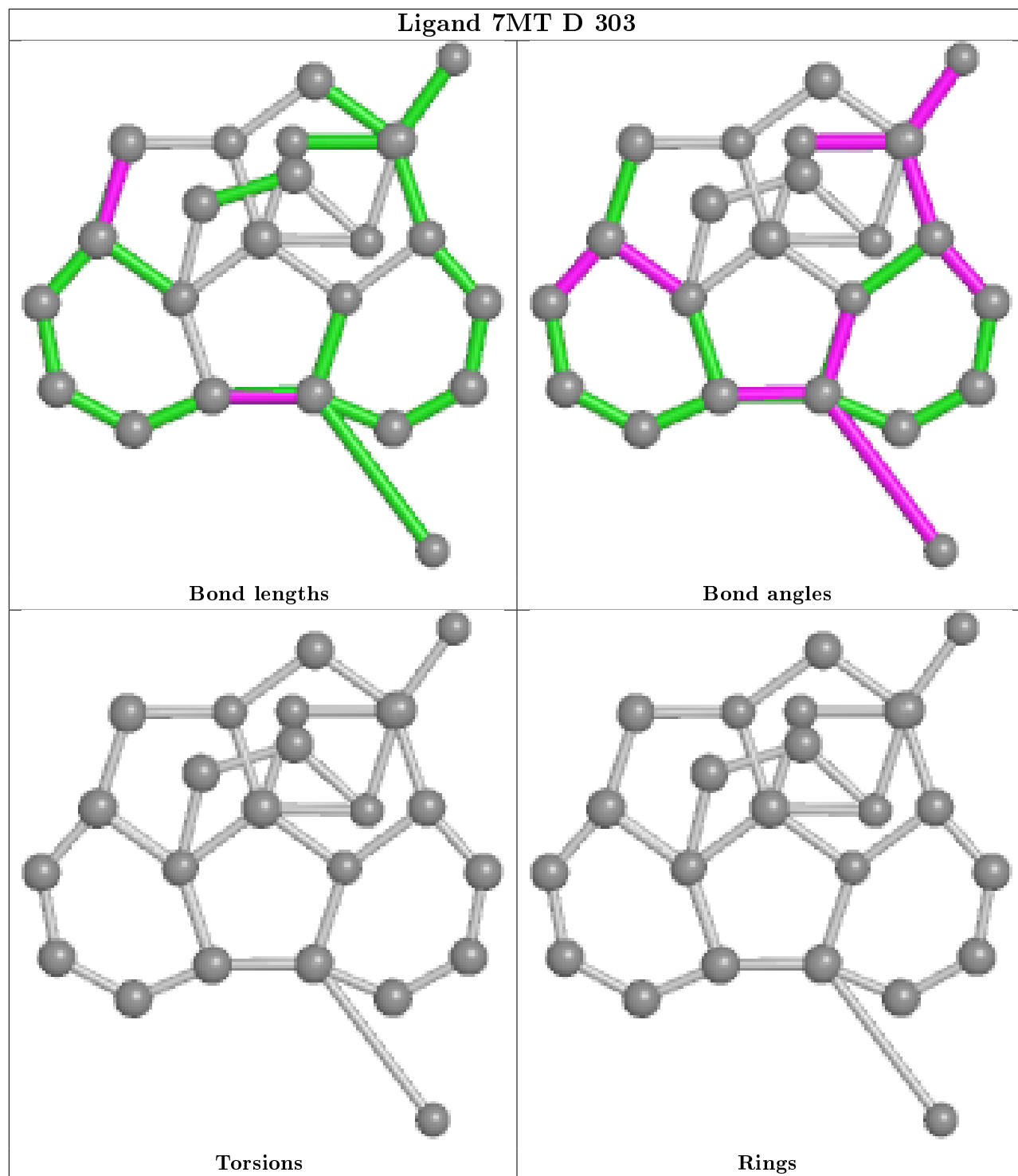
There are no ring outliers.

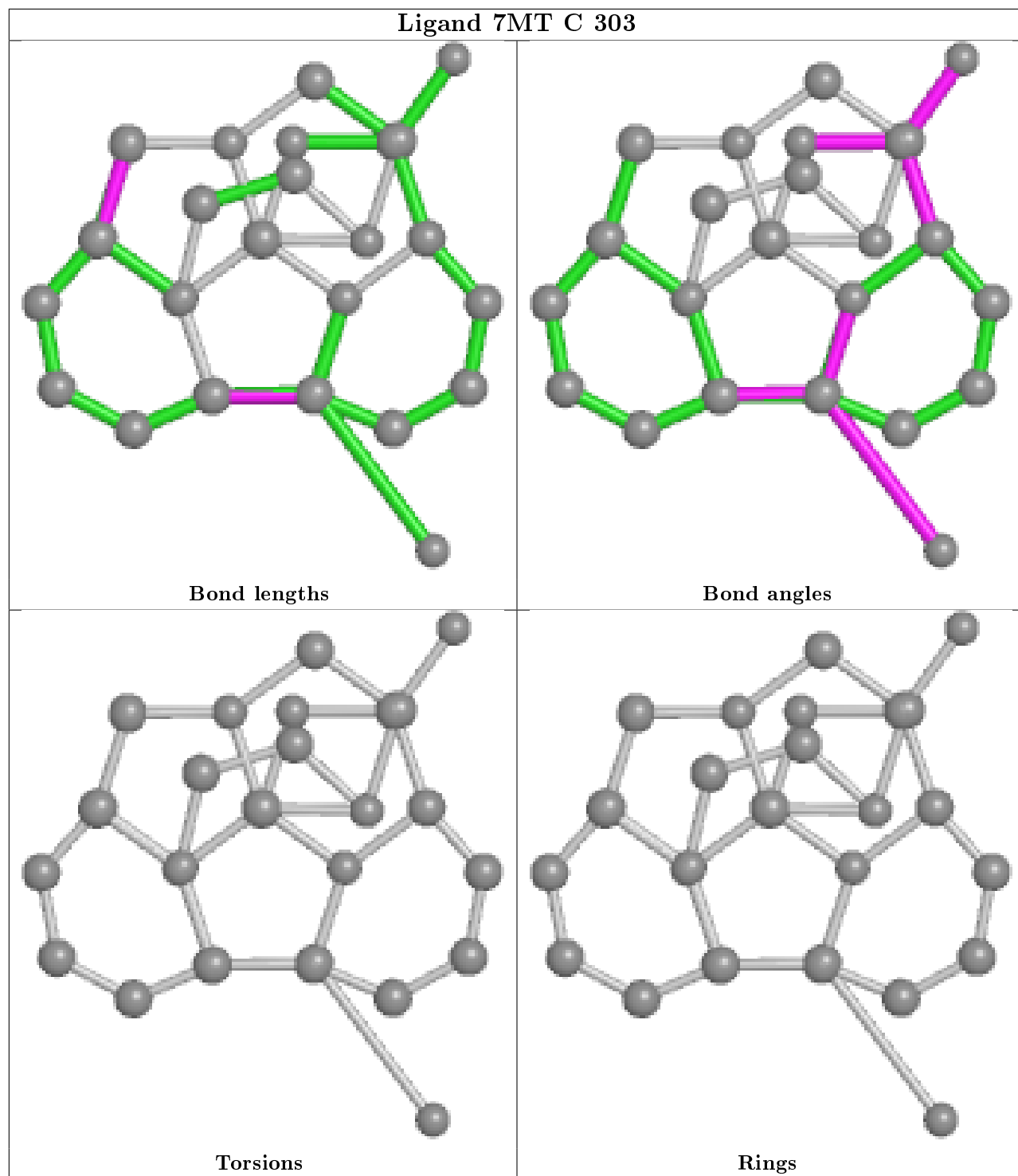
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	303	7MT	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

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	185/217 (85%)	0.08	4 (2%) 62 60	27, 42, 90, 131	2 (1%)
1	B	173/217 (79%)	0.17	10 (5%) 23 22	26, 43, 81, 141	1 (0%)
1	C	187/217 (86%)	-0.03	3 (1%) 72 70	32, 45, 82, 124	1 (0%)
1	D	187/217 (86%)	0.00	4 (2%) 63 62	33, 45, 74, 119	1 (0%)
All	All	732/868 (84%)	0.05	21 (2%) 51 50	26, 44, 83, 141	5 (0%)

The worst 5 of 21 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	19	SER	8.1
1	C	78	TYR	4.4
1	B	21	ASN	3.8
1	C	70	LEU	3.7
1	B	193	TYR	3.6

### 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](#)

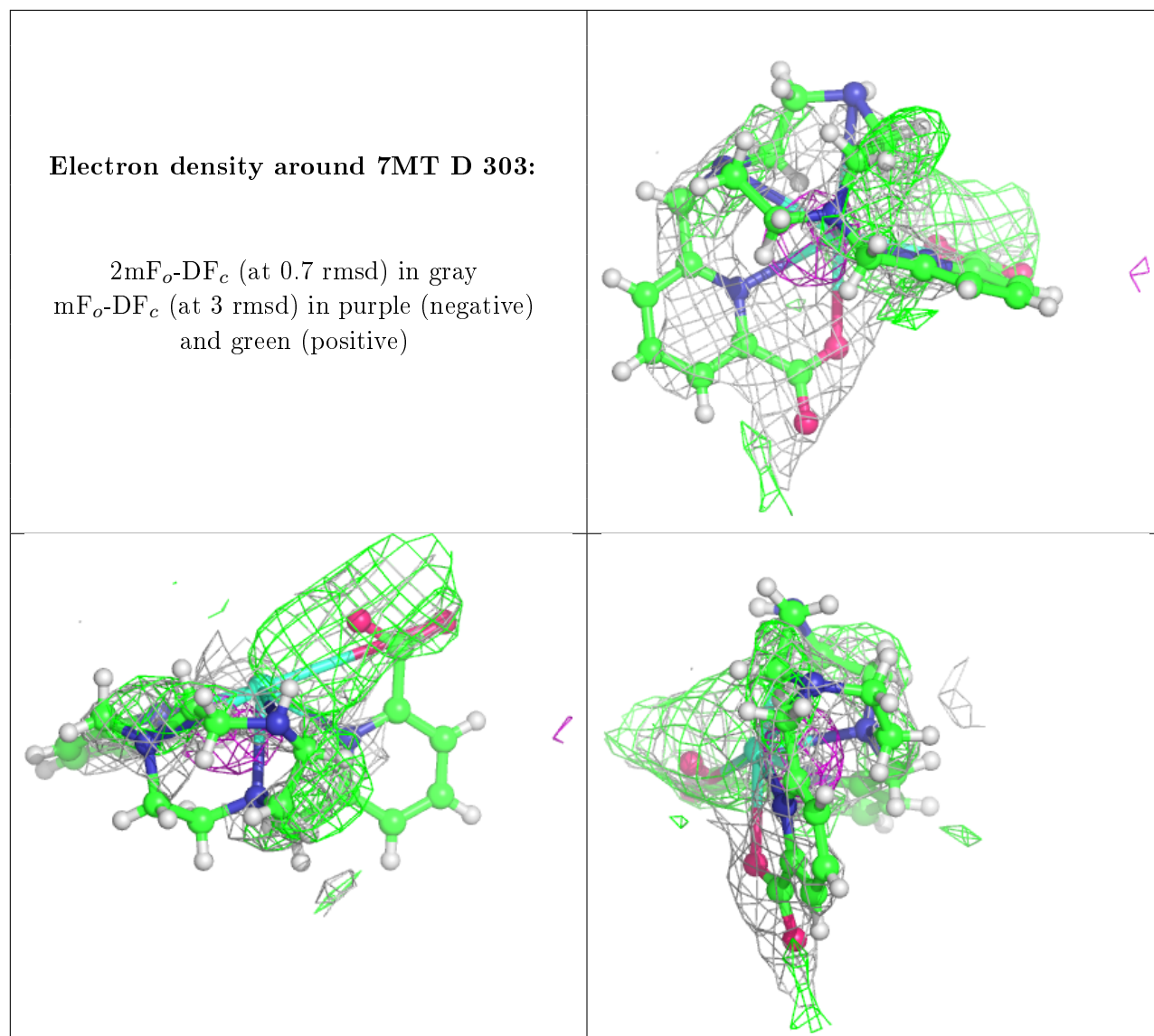
There are no carbohydrates in this entry.

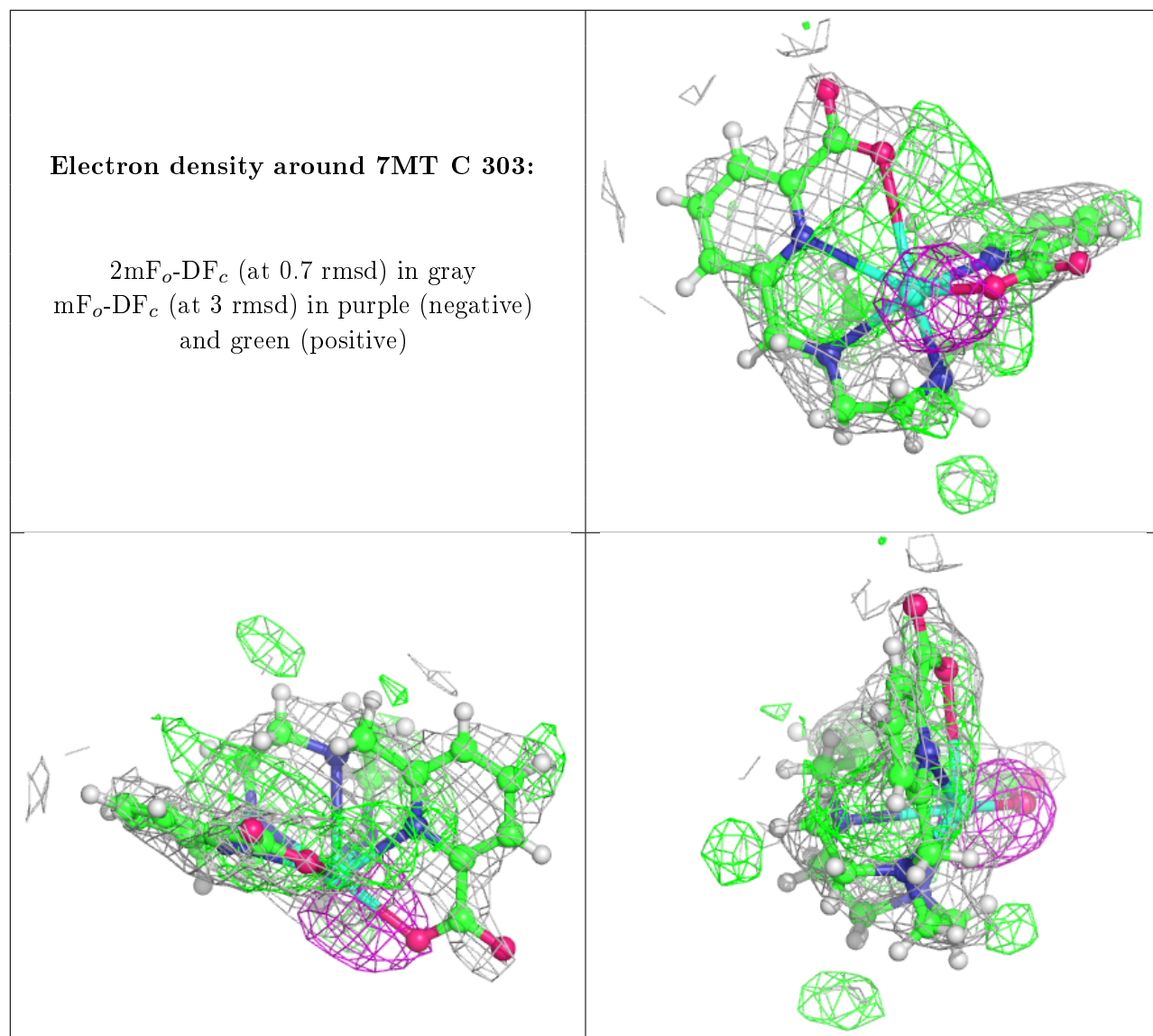
### 6.4 Ligands [i](#)

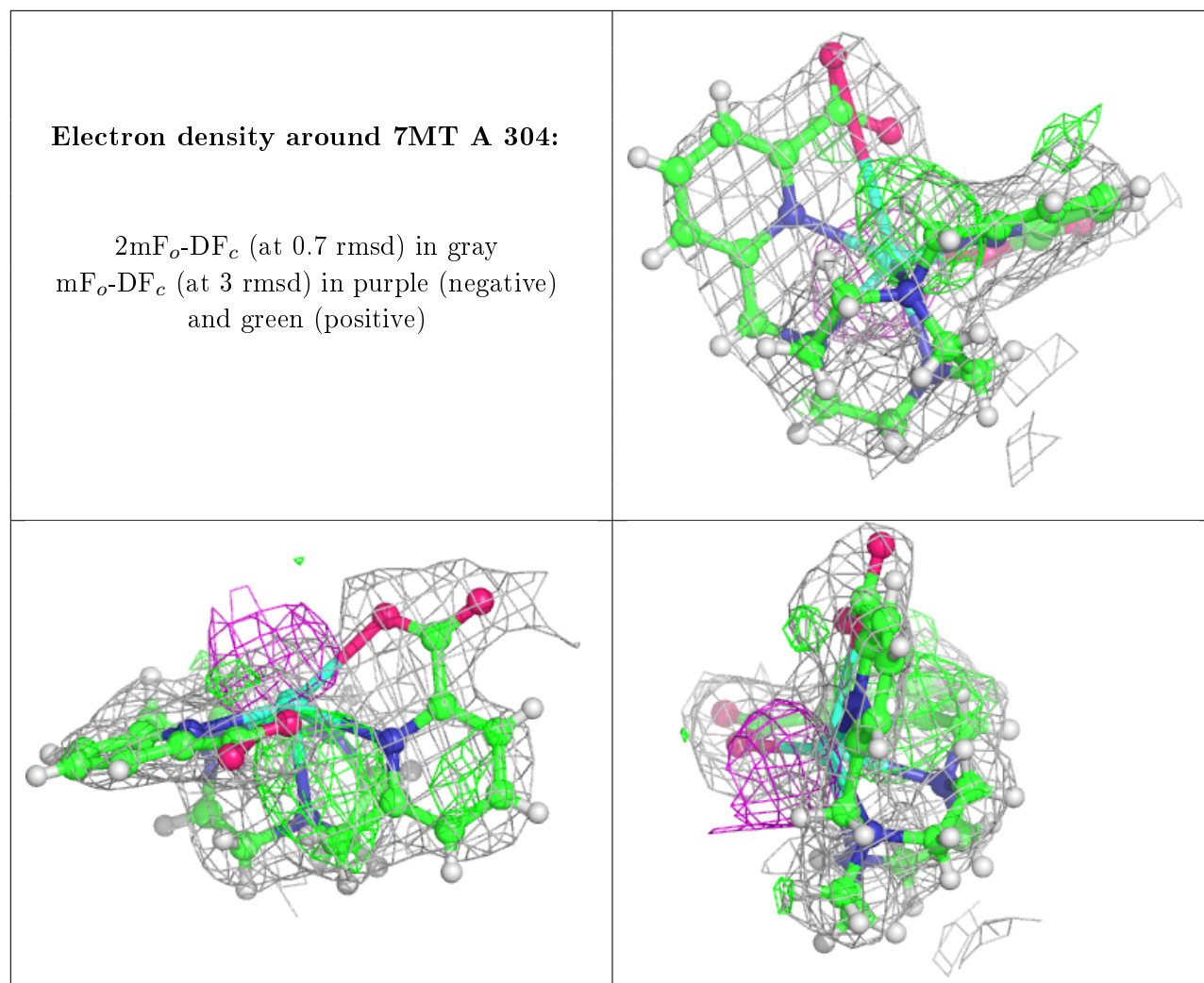
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	TB	B	304	1/1	0.15	0.19	71,71,71,71	1
2	TB	B	301	1/1	0.58	0.16	82,82,82,82	1
2	TB	D	302	1/1	0.58	0.20	58,58,58,58	1
2	TB	B	303	1/1	0.61	0.14	57,57,57,57	1
2	TB	A	301	1/1	0.63	0.11	66,66,66,66	1
2	TB	A	302	1/1	0.65	0.29	64,64,64,64	1
2	TB	B	302	1/1	0.69	0.18	51,51,51,51	1
2	TB	B	305	1/1	0.72	0.28	53,53,53,53	1
2	TB	C	301	1/1	0.74	0.14	61,61,61,61	1
2	TB	A	303	1/1	0.77	0.19	40,40,40,40	1
3	7MT	D	303	30/30	0.90	0.33	40,101,129,138	53
3	7MT	C	303	30/30	0.91	0.22	50,61,71,72	53
2	TB	C	302	1/1	0.94	0.12	37,37,37,37	1
2	TB	D	301	1/1	0.94	0.13	39,39,39,39	1
4	CL	D	304	1/1	0.96	0.19	75,75,75,75	0
3	7MT	A	304	30/30	0.96	0.14	32,42,52,54	53
4	CL	A	306	1/1	0.97	0.24	84,84,84,84	0
4	CL	B	306	1/1	0.99	0.09	42,42,42,42	0
4	CL	A	305	1/1	0.99	0.07	44,44,44,44	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.