



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 03:25 PM UTC

PDB ID : 5JW0 / pdb_00005jw0
Title : Crystal structure of mithramycin analogue MTM SA-Phe in complex with a 10-mer DNA AGGGTACCCT
Authors : Hou, C.; Rohr, J.; Tsodikov, O.V.
Deposited on : 2016-05-11
Resolution : 2.40 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

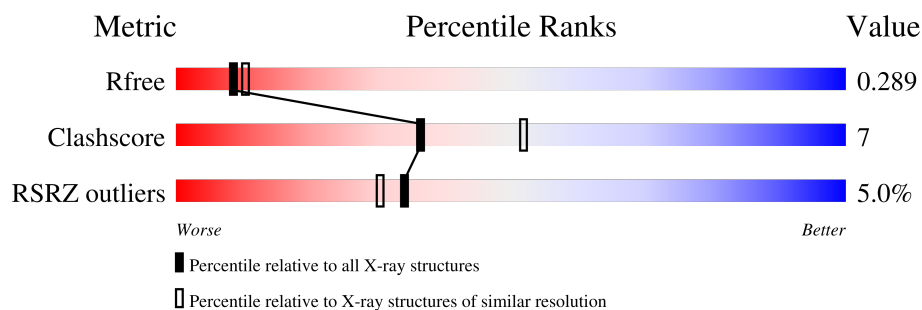
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	10	10% 80% 20%
1	B	10	80% 20%

2 Entry composition ⓘ

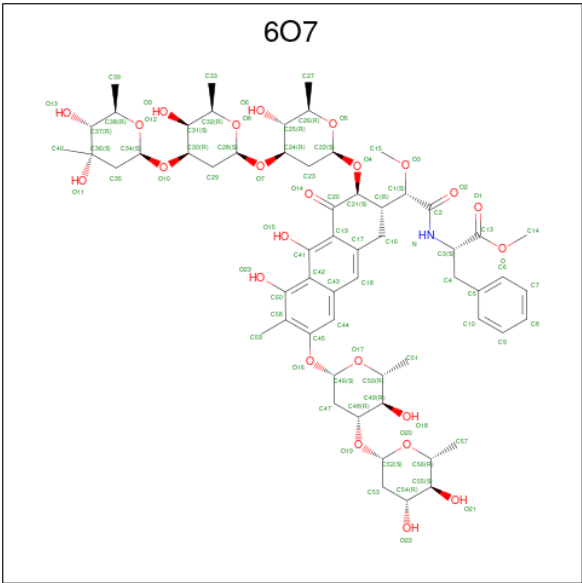
There are 4 unique types of molecules in this entry. The entry contains 759 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 DNA chain called DNA (5'-D(P*AP*GP*GP*GP*TP*AP*CP*CP*CP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	10	Total	C	N	O	P	0	0	0
			205	97	38	60	10			
1	B	10	Total	C	N	O	P	0	0	0
			202	97	38	58	9			

- Molecule 2 is Plicamycin, mithramycin analogue MTM SA-Phe (CCD ID: 6O7) (formula: C₅₉H₈₁NO₂₄).



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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			84	59	1	24		

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 4 is water.

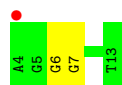
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	7	Total	O	0	0
			7	7		
4	B	3	Total	O	0	0
			3	3		

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: DNA (5'-D(P*AP*GP*GP*GP*TP*AP*CP*CP*CP*T)-3')

Chain A: 



- Molecule 1: DNA (5'-D(P*AP*GP*GP*GP*TP*AP*CP*CP*CP*T)-3')

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	50.56Å 50.56Å 125.24Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 2.40 40.00 – 2.40	Depositor EDS
% Data completeness (in resolution range)	98.2 (40.00-2.40) 98.2 (40.00-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.55 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.8.0071	Depositor
R, R_{free}	0.262 , 0.289 0.266 , 0.289	Depositor DCC
R_{free} test set	373 reflections (5.45%)	wwPDB-VP
Wilson B-factor (Å ²)	49.3	Xtriage
Anisotropy	0.118	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.45 , 60.6	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	0.89	EDS
Total number of atoms	759	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.13% 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: 6O7, ZN

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	0.38	0/229	0.69	0/351
1	B	0.39	0/226	0.78	0/347
All	All	0.39	0/455	0.74	0/698

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

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	205	0	113	1	0
1	B	202	0	114	2	0
2	A	252	0	0	2	0
2	B	84	0	0	3	0
3	A	5	0	0	0	0
3	B	1	0	0	0	0
4	A	7	0	0	0	0
4	B	3	0	0	0	0
All	All	759	0	227	7	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 7.

All (7) 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)
2:B:101:6O7:O2	2:B:101:6O7:C15	2.44	0.65
1:B:3:DA:H2'	1:B:4:DC:C6	2.35	0.62
1:A:6:DG:H2'	1:A:7:DG:C8	2.48	0.49
2:A:102:6O7:O15	2:A:102:6O7:O23	2.34	0.43
2:B:101:6O7:O2	2:B:101:6O7:C4	2.64	0.42
1:B:3:DA:N3	2:B:101:6O7:O11	2.53	0.42
2:A:101:6O7:O23	2:A:101:6O7:O15	2.37	0.41

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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
2	6O7	A	103	3	92,92,92	0.92	3 (3%)	130,138,138	1.39	19 (14%)
2	6O7	A	102	3	92,92,92	0.99	4 (4%)	130,138,138	1.24	16 (12%)
2	6O7	B	101	3	92,92,92	0.98	2 (2%)	130,138,138	1.44	19 (14%)
2	6O7	A	101	3	92,92,92	0.99	3 (3%)	130,138,138	1.24	15 (11%)

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	6O7	A	103	3	-	3/44/143/143	0/9/9/9
2	6O7	A	102	3	-	4/44/143/143	0/9/9/9
2	6O7	B	101	3	-	11/44/143/143	0/9/9/9
2	6O7	A	101	3	-	2/44/143/143	0/9/9/9

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	101	6O7	O-C13	5.23	1.46	1.33
2	B	101	6O7	O-C13	5.15	1.45	1.33
2	A	102	6O7	O-C13	5.14	1.45	1.33
2	A	103	6O7	O-C13	4.85	1.45	1.33
2	A	101	6O7	O11-C36	-3.38	1.39	1.44
2	B	101	6O7	O14-C20	3.36	1.26	1.22
2	A	102	6O7	O14-C20	2.43	1.25	1.22
2	A	103	6O7	C19-C20	2.39	1.52	1.46
2	A	103	6O7	O14-C20	2.25	1.25	1.22
2	A	101	6O7	C44-C45	2.22	1.40	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	102	6O7	C44-C45	2.16	1.40	1.36
2	A	102	6O7	C19-C20	2.06	1.51	1.46

All (69) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	103	6O7	C41-C19-C17	-4.45	117.03	119.80
2	B	101	6O7	O19-C52-C53	4.31	116.58	108.28
2	B	101	6O7	C4-C3-N	4.19	119.50	110.83
2	B	101	6O7	C-C1-C2	3.89	119.19	111.55
2	A	101	6O7	O-C13-C3	3.88	121.35	111.49
2	A	102	6O7	O16-C46-C47	3.83	112.44	107.38
2	A	103	6O7	O-C13-C3	3.80	121.16	111.49
2	B	101	6O7	C16-C17-C19	3.78	124.14	117.87
2	A	102	6O7	O-C13-C3	3.68	120.84	111.49
2	B	101	6O7	O-C13-C3	3.50	120.40	111.49
2	B	101	6O7	O3-C1-C2	-3.33	105.16	111.64
2	B	101	6O7	C4-C3-C13	-3.31	102.40	110.42
2	A	102	6O7	O-C13-O1	-3.30	117.43	123.85
2	B	101	6O7	C16-C17-C18	-3.06	115.62	121.23
2	A	103	6O7	O5-C26-C25	-3.04	104.08	109.55
2	A	103	6O7	O-C13-O1	-3.03	117.95	123.85
2	A	102	6O7	C60-C42-C43	3.00	120.90	118.16
2	A	101	6O7	C45-C58-C60	2.96	120.39	116.99
2	A	103	6O7	C16-C17-C19	2.95	122.76	117.87
2	A	103	6O7	C16-C17-C18	-2.92	115.88	121.23
2	A	103	6O7	C45-C58-C60	2.87	120.30	116.99
2	B	101	6O7	C45-C58-C60	2.85	120.27	116.99
2	A	101	6O7	C16-C17-C19	2.82	122.55	117.87
2	A	103	6O7	O16-C46-C47	2.81	111.09	107.38
2	A	103	6O7	O19-C52-C53	2.76	113.58	108.28
2	A	102	6O7	O14-C20-C19	-2.71	118.75	122.83
2	B	101	6O7	O2-C2-N	-2.68	118.16	122.96
2	A	103	6O7	O17-C46-C47	-2.61	106.80	110.84
2	A	101	6O7	O-C13-O1	-2.60	118.79	123.85
2	A	103	6O7	O12-C34-C35	-2.59	107.25	112.08
2	A	101	6O7	O7-C24-C23	-2.58	104.62	109.64
2	A	103	6O7	C45-O16-C46	2.58	122.79	118.13
2	A	102	6O7	C16-C17-C19	2.57	122.14	117.87
2	A	101	6O7	O14-C20-C19	-2.57	118.96	122.83
2	A	102	6O7	C45-C58-C60	2.56	119.94	116.99
2	A	102	6O7	O8-C32-C31	-2.55	104.97	109.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	101	6O7	O12-C34-C35	-2.51	107.39	112.08
2	A	102	6O7	O20-C56-C55	2.51	114.06	109.55
2	A	103	6O7	O18-C49-C50	-2.49	104.25	109.74
2	A	102	6O7	O17-C50-C51	2.47	112.22	106.74
2	A	101	6O7	C44-C45-C58	-2.44	119.56	122.45
2	A	102	6O7	C36-C35-C34	-2.41	110.30	114.77
2	A	101	6O7	C60-C42-C43	2.40	120.36	118.16
2	B	101	6O7	O20-C56-C57	2.37	112.01	106.74
2	B	101	6O7	C1-C2-N	2.37	122.74	117.71
2	B	101	6O7	O17-C46-C47	2.35	114.49	110.84
2	A	101	6O7	C16-C17-C18	-2.35	116.92	121.23
2	A	101	6O7	O16-C46-C47	2.31	110.42	107.38
2	A	102	6O7	C52-O19-C48	-2.29	111.03	116.22
2	A	101	6O7	C45-O16-C46	2.28	122.27	118.13
2	A	101	6O7	C5-C4-C3	-2.28	107.30	113.36
2	B	101	6O7	C44-C45-C58	-2.26	119.77	122.45
2	A	103	6O7	C4-C3-C13	-2.23	105.01	110.42
2	A	103	6O7	C44-C45-C58	-2.21	119.83	122.45
2	A	103	6O7	C6-C5-C10	2.17	121.47	118.23
2	B	101	6O7	O11-C36-C37	2.16	111.32	107.52
2	A	103	6O7	C19-C41-C42	2.14	122.81	121.13
2	A	102	6O7	O3-C1-C	2.14	110.72	106.99
2	B	101	6O7	C52-O19-C48	2.12	121.02	116.22
2	B	101	6O7	O7-C24-C23	-2.09	105.57	109.64
2	A	101	6O7	C19-C20-C21	2.07	120.06	116.04
2	A	103	6O7	C48-C49-C50	2.07	113.97	109.75
2	B	101	6O7	O20-C56-C55	-2.06	105.85	109.55
2	A	101	6O7	C52-O19-C48	-2.05	111.58	116.22
2	A	102	6O7	O21-C55-C56	-2.04	105.23	109.74
2	A	101	6O7	C41-C42-C43	2.04	120.02	118.16
2	A	102	6O7	C19-C20-C21	2.03	119.98	116.04
2	A	102	6O7	C57-C56-C55	-2.03	109.37	113.08
2	A	103	6O7	C28-O7-C24	-2.02	111.63	116.22

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	102	6O7	C2-C1-O3-C15
2	B	101	6O7	C16-C-C1-O3
2	B	101	6O7	C16-C-C1-C2
2	B	101	6O7	C21-C-C1-O3

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Mol	Chain	Res	Type	Atoms
2	B	101	6O7	C47-C46-O16-C45
2	B	101	6O7	C53-C52-O19-C48
2	B	101	6O7	C-C1-O3-C15
2	B	101	6O7	C4-C3-N-C2
2	A	102	6O7	O1-C13-O-C14
2	B	101	6O7	O1-C13-O-C14
2	A	101	6O7	C3-C13-O-C14
2	A	102	6O7	C3-C13-O-C14
2	B	101	6O7	C3-C13-O-C14
2	A	101	6O7	O1-C13-O-C14
2	A	103	6O7	C3-C13-O-C14
2	A	103	6O7	O1-C13-O-C14
2	B	101	6O7	O20-C52-O19-C48
2	A	102	6O7	C-C1-O3-C15
2	B	101	6O7	C-C1-C2-O2
2	A	103	6O7	C16-C-C1-O3

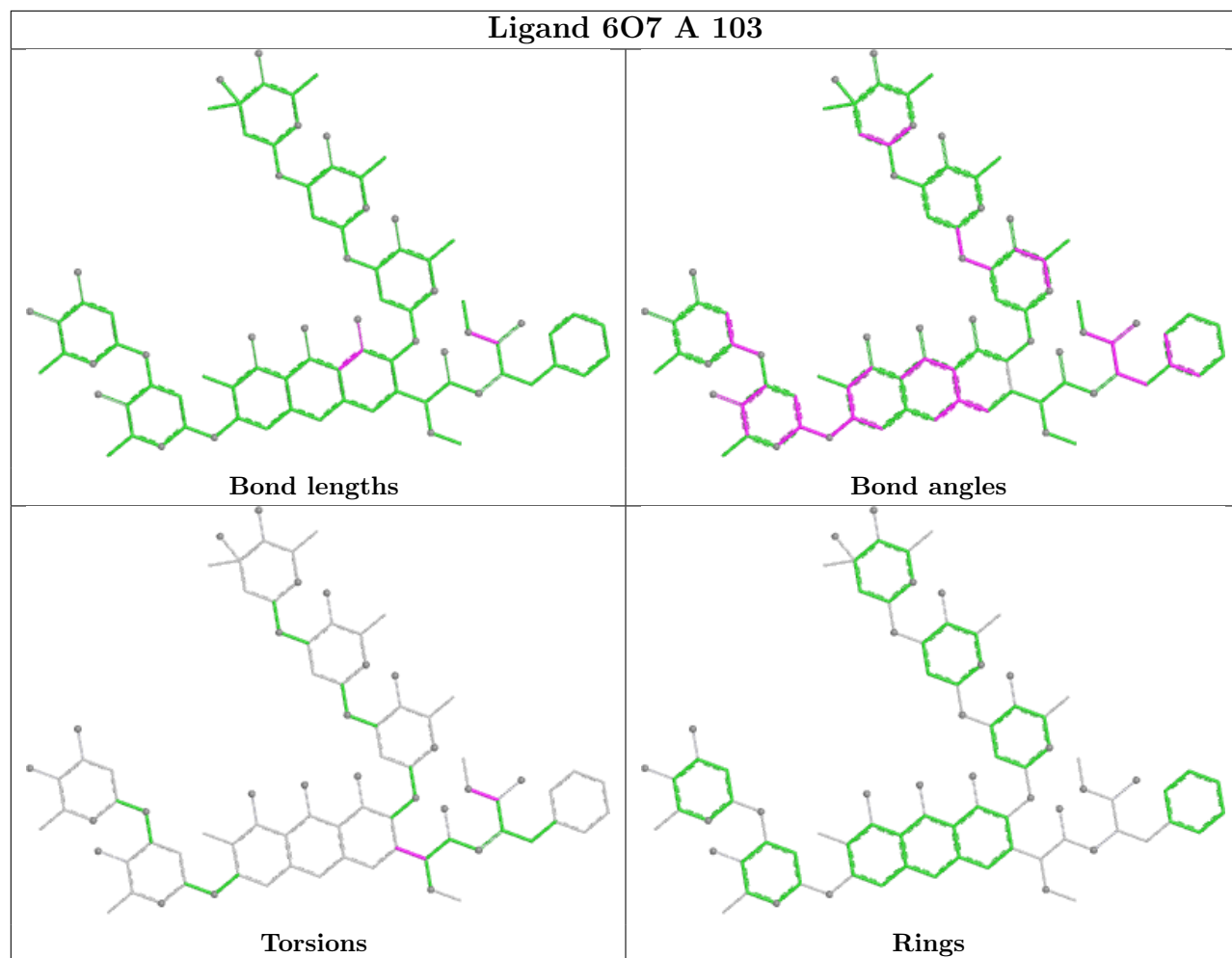
There are no ring outliers.

3 monomers are involved in 5 short contacts:

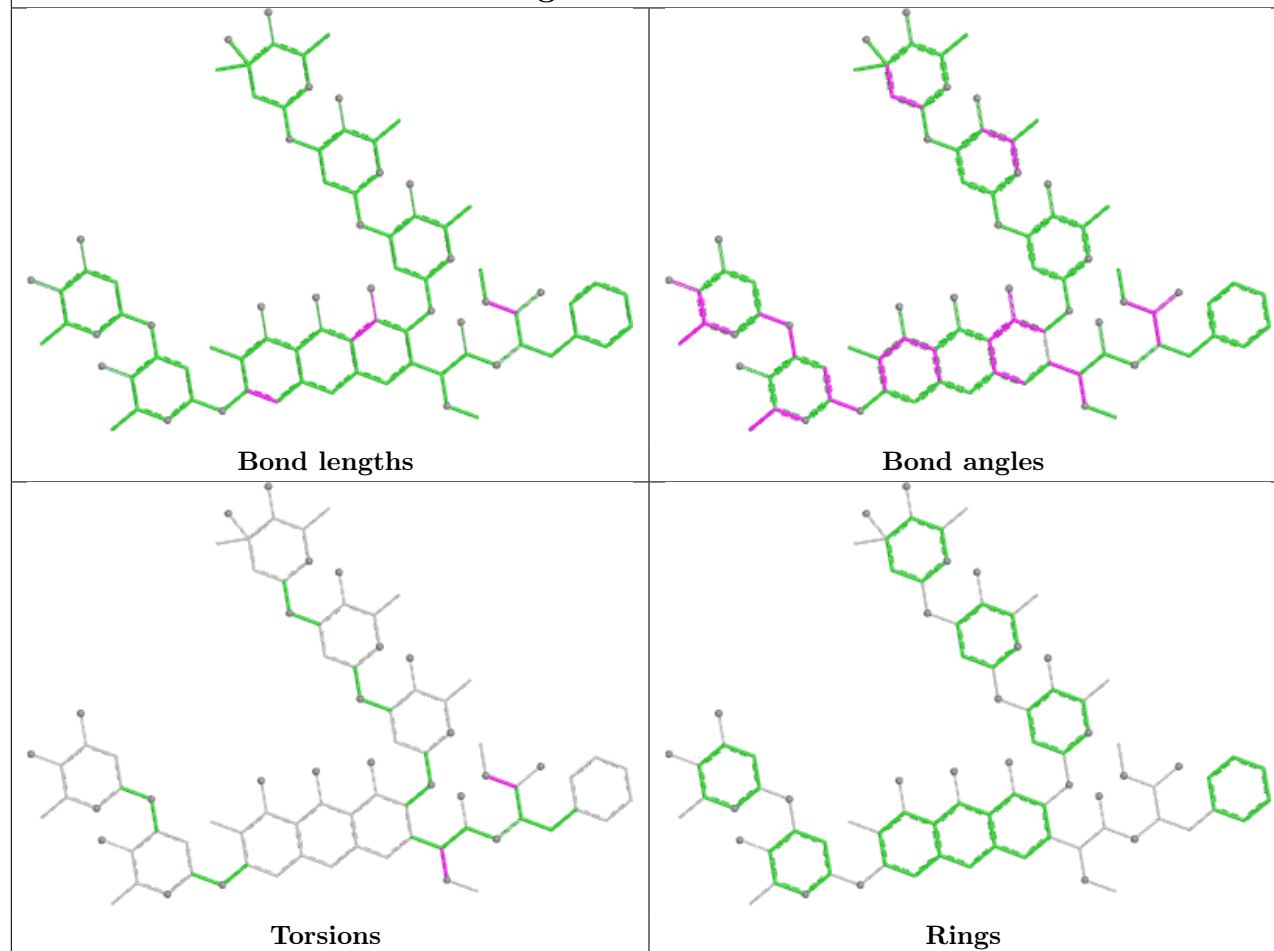
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	102	6O7	1	0
2	B	101	6O7	3	0
2	A	101	6O7	1	0

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.

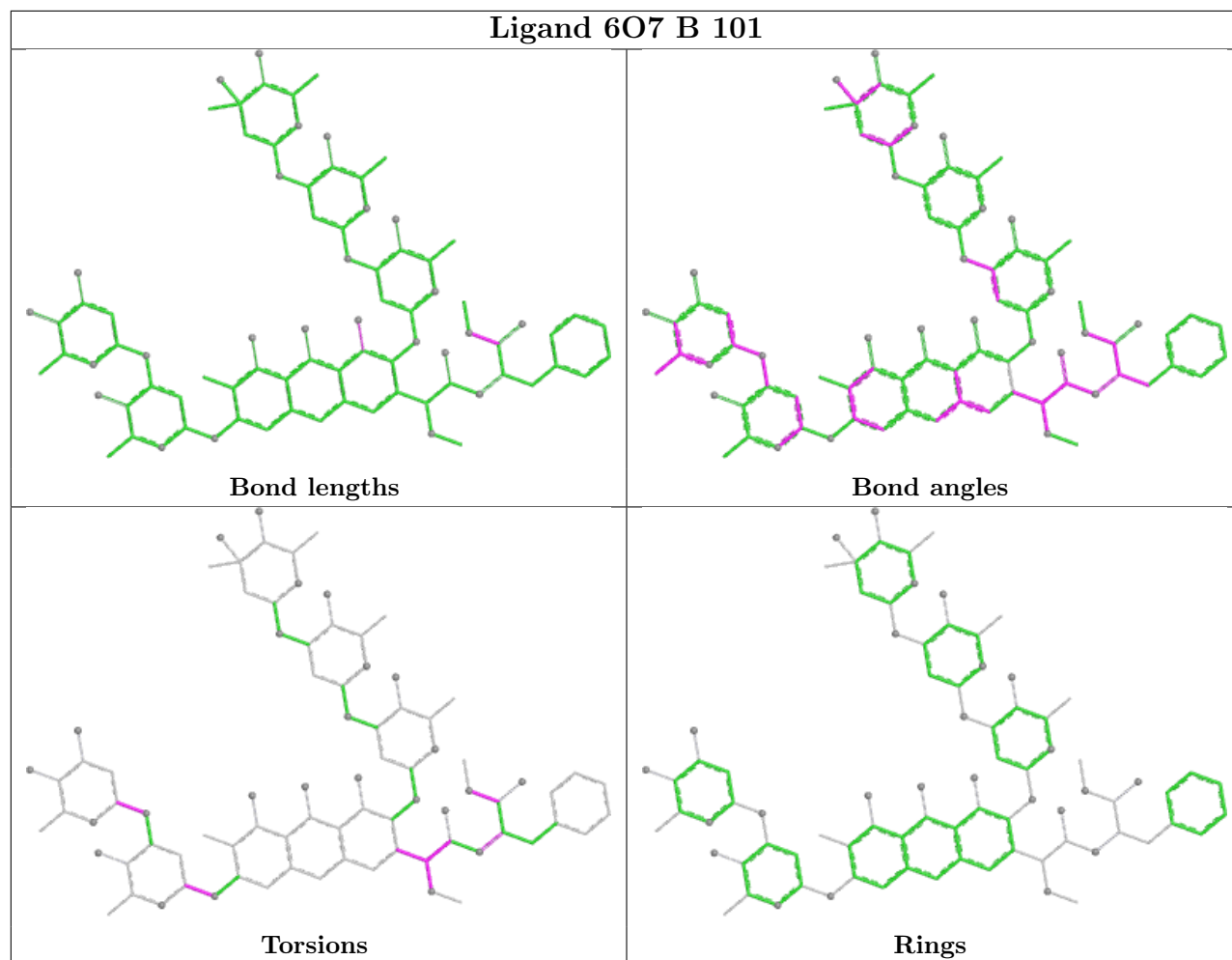
Ligand 6O7 A 103

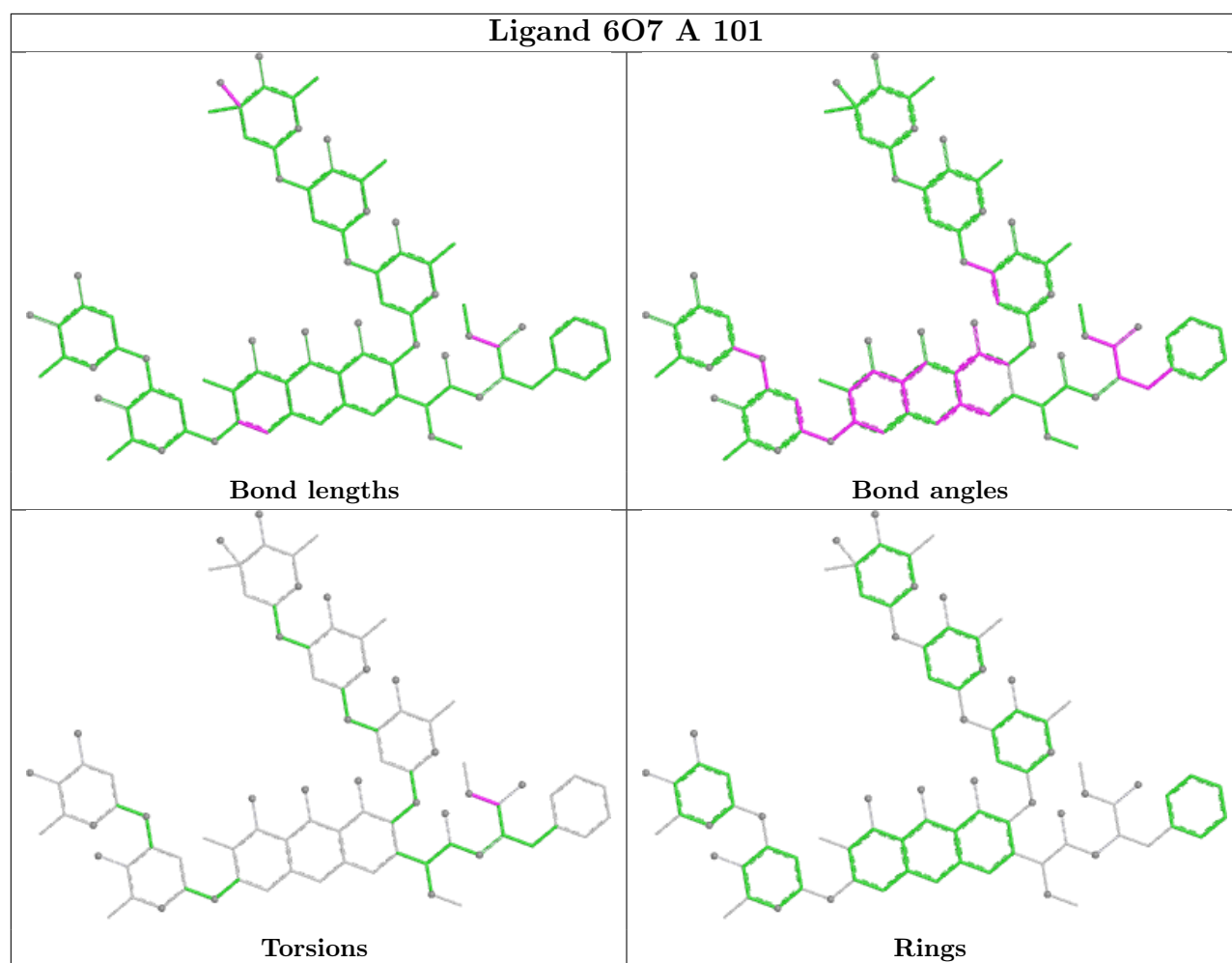


Ligand 6O7 A 102



Ligand 6O7 B 101





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	10/10 (100%)	0.76	1 (10%) 12 9	38, 41, 45, 47	0
1	B	10/10 (100%)	1.11	0 100 100	40, 43, 49, 50	0
All	All	20/20 (100%)	0.93	1 (5%) 34 30	38, 43, 49, 50	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	4	DA	2.5

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(Å ²)	Q<0.9
3	ZN	A	108	1/1	0.60	0.31	36,36,36,36	1
3	ZN	A	107	1/1	0.81	0.20	26,26,26,26	1
2	6O7	A	101	84/84	0.89	0.16	31,48,63,66	0
2	6O7	A	103	84/84	0.89	0.15	31,40,55,58	0

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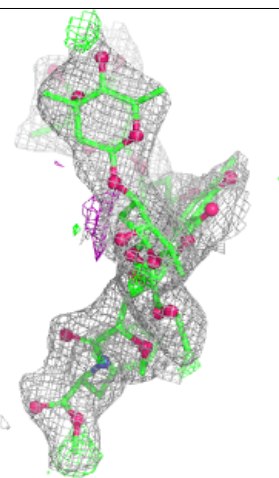
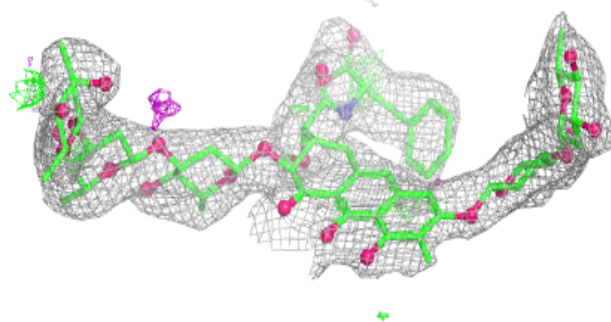
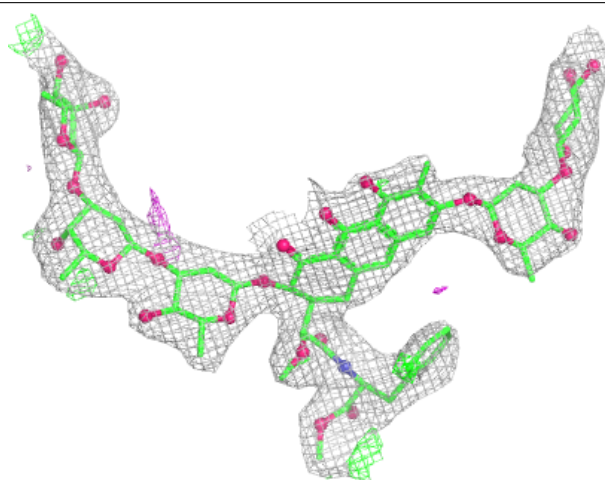
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	6O7	B	101	84/84	0.90	0.15	35,47,54,57	0
2	6O7	A	102	84/84	0.91	0.14	31,45,54,58	0
3	ZN	A	105	1/1	0.94	0.11	65,65,65,65	1
3	ZN	A	106	1/1	0.98	0.04	41,41,41,41	0
3	ZN	B	102	1/1	0.98	0.04	53,53,53,53	0
3	ZN	A	104	1/1	1.00	0.03	37,37,37,37	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.

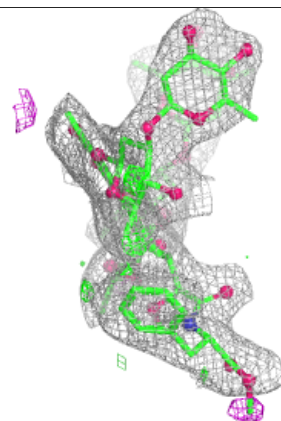
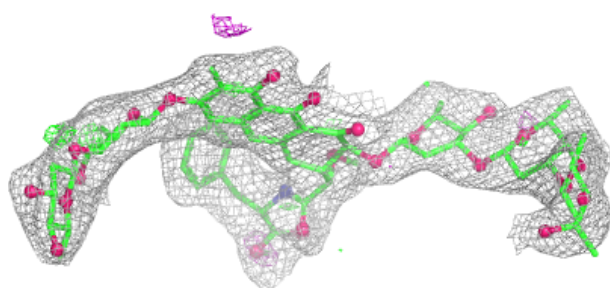
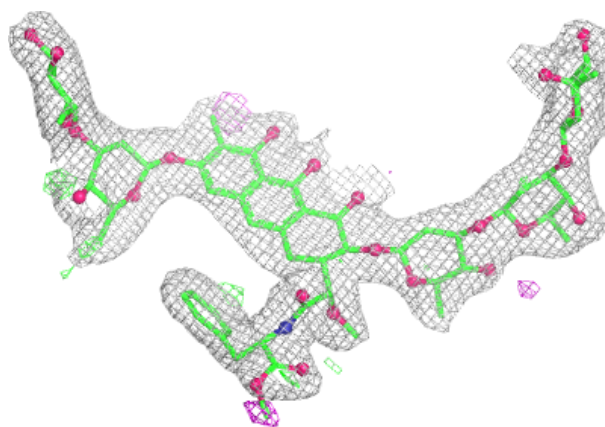
Electron density around 6O7 A 101:

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

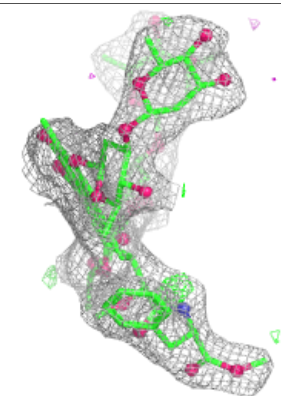
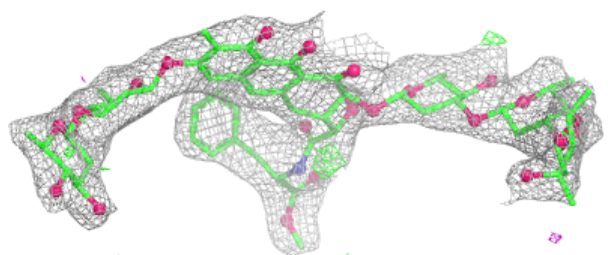
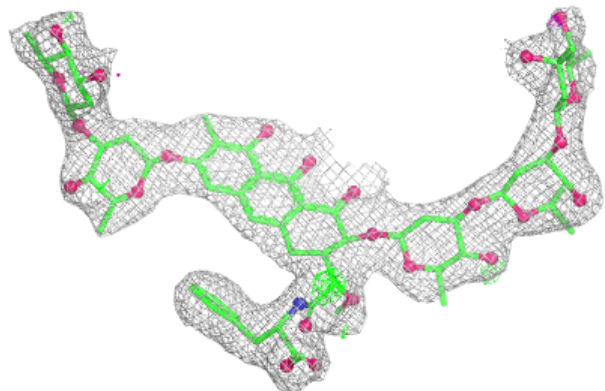


Electron density around 6O7 A 103:

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

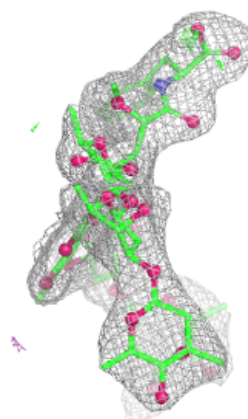
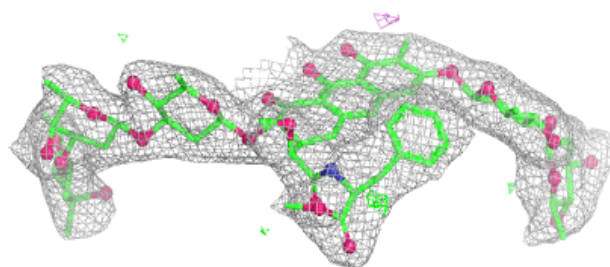
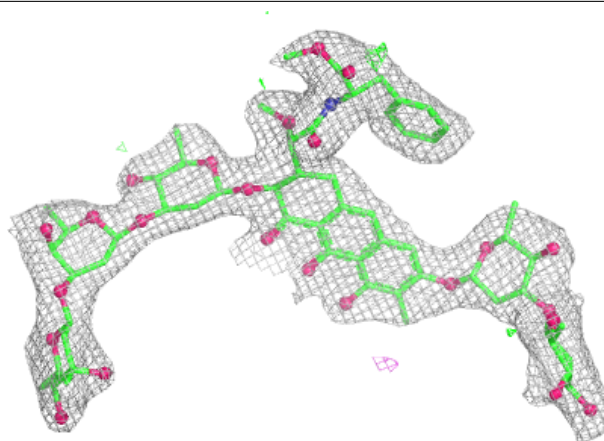
**Electron density around 6O7 B 101:**

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



Electron density around 6O7 A 102:

$2mF_o-DF_c$ (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.