Full wwPDB EM Validation Report ⓘ

Jul 10, 2026 – 02:19 PM JST

PDB ID	:	21NT / pdb_000021nt
EMDB ID	:	EMD-67850
Title	:	Cryo-EM structure of TLP-3
Authors	:	Yan, N.; Li, Z.; Wang, T.
Deposited on	:	2025-12-21
Resolution	:	3.50 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp
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:

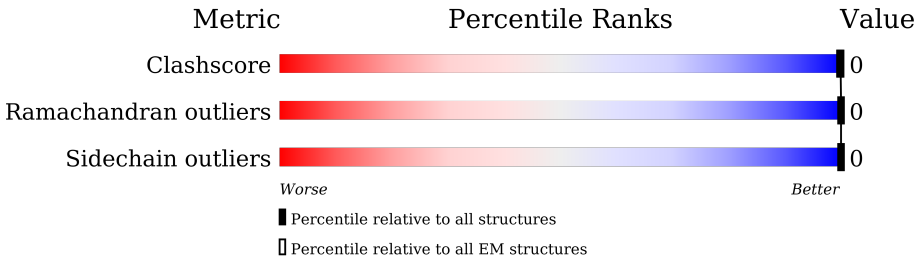
EMDB validation analysis	:	0.0.1.dev133
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

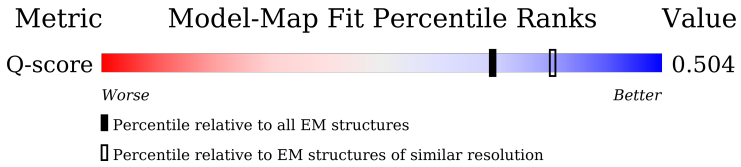
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.50 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13950 (3.00 - 4.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	27	100%
1	B	27	100%
1	C	27	100%
2	D	8	88% 12%

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Mol	Chain	Length	Quality of chain
2	E	8	88% 12%
2	F	8	88% 12%
2	G	8	88% 12%
2	H	8	100%
2	I	8	75% 25%
2	J	8	88% 12%
2	K	8	88% 12%
2	L	8	75% 25%
2	M	8	75% 25%
2	N	8	88% 12%
2	O	8	88% 12%
2	P	8	88% 12%
2	Q	8	100%
2	R	8	100%
2	S	8	100%
2	T	8	88% 12%
2	U	8	62% 38%
2	V	8	75% 25%
2	W	8	88% 12%
2	X	8	88% 12%
2	Y	8	88% 12%
2	Z	8	75% 25%
2	a	8	88% 12%
2	b	8	88% 12%
2	c	8	88% 12%

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Mol	Chain	Length	Quality of chain
2	d	8	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 2565 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 TLP-3.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	27	Total	C	N	O	0	0
			126	63	27	36		
1	B	27	Total	C	N	O	0	0
			126	63	27	36		
1	C	27	Total	C	N	O	0	0
			126	63	27	36		

- Molecule 2 is an oligosaccharide called beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	D	8	Total	C	N	O	0	0
			81	45	1	35		
2	E	8	Total	C	N	O	0	0
			81	45	1	35		
2	F	8	Total	C	N	O	0	0
			81	45	1	35		
2	G	8	Total	C	N	O	0	0
			81	45	1	35		
2	H	8	Total	C	N	O	0	0
			81	45	1	35		
2	I	8	Total	C	N	O	0	0
			81	45	1	35		
2	J	8	Total	C	N	O	0	0
			81	45	1	35		
2	K	8	Total	C	N	O	0	0
			81	45	1	35		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	L	8	Total	C	N	O	0	0
			81	45	1	35		
2	M	8	Total	C	N	O	0	0
			81	45	1	35		
2	N	8	Total	C	N	O	0	0
			81	45	1	35		
2	O	8	Total	C	N	O	0	0
			81	45	1	35		
2	P	8	Total	C	N	O	0	0
			81	45	1	35		
2	Q	8	Total	C	N	O	0	0
			81	45	1	35		
2	R	8	Total	C	N	O	0	0
			81	45	1	35		
2	S	8	Total	C	N	O	0	0
			81	45	1	35		
2	T	8	Total	C	N	O	0	0
			81	45	1	35		
2	U	8	Total	C	N	O	0	0
			81	45	1	35		
2	V	8	Total	C	N	O	0	0
			81	45	1	35		
2	W	8	Total	C	N	O	0	0
			81	45	1	35		
2	X	8	Total	C	N	O	0	0
			81	45	1	35		
2	Y	8	Total	C	N	O	0	0
			81	45	1	35		
2	Z	8	Total	C	N	O	0	0
			81	45	1	35		
2	a	8	Total	C	N	O	0	0
			81	45	1	35		
2	b	8	Total	C	N	O	0	0
			81	45	1	35		
2	c	8	Total	C	N	O	0	0
			81	45	1	35		
2	d	8	Total	C	N	O	0	0
			81	45	1	35		

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 atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

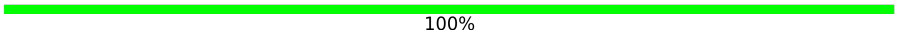
• Molecule 1: TLP-3

Chain A:

There are no outlier residues recorded for this chain.

• Molecule 1: TLP-3

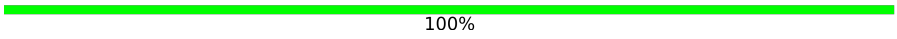
Chain B:



There are no outlier residues recorded for this chain.

• Molecule 1: TLP-3

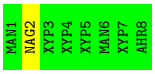
Chain C:



There are no outlier residues recorded for this chain.

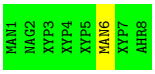
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain D:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain E:

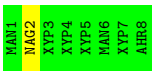


• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain F:

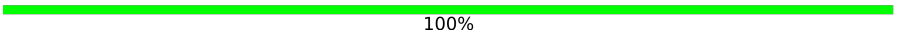
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

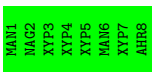
Chain G:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

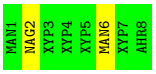
Chain H:





• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain I:

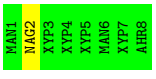


• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain J:

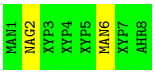
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain K:



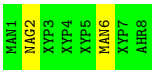
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain L:



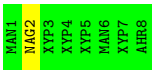
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain M:



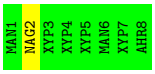
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain N:



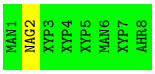
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain O:



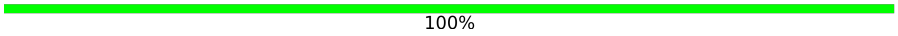
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain P:



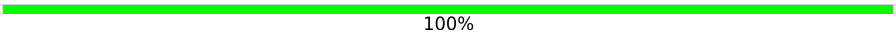
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

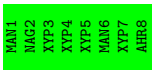
Chain Q:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

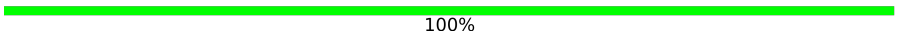
Chain R:

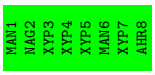




• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

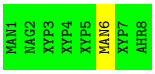
Chain S:





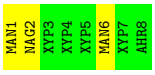
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain T:



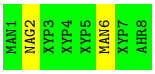
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain U:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain V:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain W:

• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

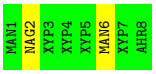
Chain X:

• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain Y:

• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain Z:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

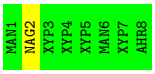
Chain a:

• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain b:

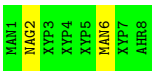
• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain c:



• Molecule 2: beta-D-xylopyranose-(1-2)-beta-D-xylopyranose-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[beta-D-xylopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-beta-D-xylopyranose-(1-4)][alpha-L-arabinofuranose-(1-3)]alpha-D-mannopyranose

Chain d:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=105.6°, rise=2.9 Å, axial sym=C3	Depositor
Number of segments used	28629	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.036	Depositor
Minimum map value	-0.543	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.051	Depositor
Recommended contour level	0.106	Depositor
Map size (Å)	281.0624, 281.0624, 281.0624	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.0979, 1.0979, 1.0979	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AHR, MAN, XYP, NAG

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	0.32	0/125	0.88	0/159
1	B	0.32	0/125	0.91	0/159
1	C	0.31	0/125	0.89	0/159
All	All	0.32	0/375	0.89	0/477

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	126	0	92	0	0
1	B	126	0	92	0	0
1	C	126	0	92	0	0
2	D	81	0	28	0	0
2	E	81	0	28	0	0
2	F	81	0	28	0	0
2	G	81	0	28	0	0
2	H	81	0	28	0	0
2	I	81	0	28	0	0
2	J	81	0	28	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	K	81	0	28	0	0
2	L	81	0	28	0	0
2	M	81	0	28	0	0
2	N	81	0	28	0	0
2	O	81	0	28	0	0
2	P	81	0	28	0	0
2	Q	81	0	28	0	0
2	R	81	0	28	0	0
2	S	81	0	28	0	0
2	T	81	0	28	0	0
2	U	81	0	28	0	0
2	V	81	0	28	0	0
2	W	81	0	28	0	0
2	X	81	0	28	0	0
2	Y	81	0	28	0	0
2	Z	81	0	28	0	0
2	a	81	0	28	0	0
2	b	81	0	28	0	0
2	c	81	0	28	0	0
2	d	81	0	28	0	0
All	All	2565	0	1032	0	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 0.

There are no clashes within the asymmetric unit.

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 PDB entries followed by that with respect to all EM entries.

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	25/27 (93%)	19 (76%)	6 (24%)	0	100	100
1	B	25/27 (93%)	19 (76%)	6 (24%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	25/27 (93%)	18 (72%)	7 (28%)	0	100	100
All	All	75/81 (93%)	56 (75%)	19 (25%)	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 PDB entries followed by that with respect to all EM entries.

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	9/9 (100%)	9 (100%)	0	100	100
1	B	9/9 (100%)	9 (100%)	0	100	100
1	C	9/9 (100%)	9 (100%)	0	100	100
All	All	27/27 (100%)	27 (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)

216 monosaccharides 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	MAN	D	1	1,2	11,11,12	0.20	0	15,15,17	0.82	0
2	NAG	D	2	2	14,14,15	0.42	0	17,19,21	0.98	1 (5%)
2	XYP	D	3	2	9,9,10	0.16	0	10,12,14	0.58	0
2	XYP	D	4	2	9,9,10	0.16	0	10,12,14	0.62	0
2	XYP	D	5	2	9,9,10	0.17	0	10,12,14	0.62	0
2	MAN	D	6	2	11,11,12	0.25	0	15,15,17	0.75	0
2	XYP	D	7	2	9,9,10	0.19	0	10,12,14	0.59	0
2	AHR	D	8	2	9,9,10	0.58	0	10,12,14	0.78	0
2	MAN	E	1	1,2	11,11,12	0.21	0	15,15,17	0.81	0
2	NAG	E	2	2	14,14,15	0.44	0	17,19,21	0.88	0
2	XYP	E	3	2	9,9,10	0.17	0	10,12,14	0.57	0
2	XYP	E	4	2	9,9,10	0.17	0	10,12,14	0.63	0
2	XYP	E	5	2	9,9,10	0.17	0	10,12,14	0.65	0
2	MAN	E	6	2	11,11,12	0.23	0	15,15,17	0.79	1 (6%)
2	XYP	E	7	2	9,9,10	0.16	0	10,12,14	0.61	0
2	AHR	E	8	2	9,9,10	0.57	0	10,12,14	0.84	0
2	MAN	F	1	1,2	11,11,12	0.19	0	15,15,17	0.82	0
2	NAG	F	2	2	14,14,15	0.43	0	17,19,21	0.94	1 (5%)
2	XYP	F	3	2	9,9,10	0.16	0	10,12,14	0.60	0
2	XYP	F	4	2	9,9,10	0.18	0	10,12,14	0.61	0
2	XYP	F	5	2	9,9,10	0.14	0	10,12,14	0.63	0
2	MAN	F	6	2	11,11,12	0.24	0	15,15,17	0.75	0
2	XYP	F	7	2	9,9,10	0.17	0	10,12,14	0.60	0
2	AHR	F	8	2	9,9,10	0.56	0	10,12,14	0.85	0
2	MAN	G	1	1,2	11,11,12	0.22	0	15,15,17	0.81	0
2	NAG	G	2	2	14,14,15	0.43	0	17,19,21	0.96	1 (5%)
2	XYP	G	3	2	9,9,10	0.16	0	10,12,14	0.58	0
2	XYP	G	4	2	9,9,10	0.17	0	10,12,14	0.61	0
2	XYP	G	5	2	9,9,10	0.16	0	10,12,14	0.65	0
2	MAN	G	6	2	11,11,12	0.23	0	15,15,17	0.73	0
2	XYP	G	7	2	9,9,10	0.17	0	10,12,14	0.60	0
2	AHR	G	8	2	9,9,10	0.57	0	10,12,14	0.80	0
2	MAN	H	1	1,2	11,11,12	0.19	0	15,15,17	0.82	0
2	NAG	H	2	2	14,14,15	0.44	0	17,19,21	0.94	0
2	XYP	H	3	2	9,9,10	0.18	0	10,12,14	0.54	0
2	XYP	H	4	2	9,9,10	0.17	0	10,12,14	0.62	0
2	XYP	H	5	2	9,9,10	0.17	0	10,12,14	0.65	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MAN	H	6	2	11,11,12	0.24	0	15,15,17	0.75	0
2	XYP	H	7	2	9,9,10	0.16	0	10,12,14	0.61	0
2	AHR	H	8	2	9,9,10	0.54	0	10,12,14	0.77	0
2	MAN	I	1	1,2	11,11,12	0.19	0	15,15,17	0.82	0
2	NAG	I	2	2	14,14,15	0.43	0	17,19,21	0.95	1 (5%)
2	XYP	I	3	2	9,9,10	0.15	0	10,12,14	0.56	0
2	XYP	I	4	2	9,9,10	0.18	0	10,12,14	0.60	0
2	XYP	I	5	2	9,9,10	0.16	0	10,12,14	0.64	0
2	MAN	I	6	2	11,11,12	0.24	0	15,15,17	0.76	1 (6%)
2	XYP	I	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	I	8	2	9,9,10	0.57	0	10,12,14	0.80	0
2	MAN	J	1	1,2	11,11,12	0.21	0	15,15,17	0.82	0
2	NAG	J	2	2	14,14,15	0.44	0	17,19,21	0.97	1 (5%)
2	XYP	J	3	2	9,9,10	0.16	0	10,12,14	0.55	0
2	XYP	J	4	2	9,9,10	0.17	0	10,12,14	0.62	0
2	XYP	J	5	2	9,9,10	0.17	0	10,12,14	0.62	0
2	MAN	J	6	2	11,11,12	0.24	0	15,15,17	0.73	0
2	XYP	J	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	J	8	2	9,9,10	0.55	0	10,12,14	0.80	0
2	MAN	K	1	1,2	11,11,12	0.21	0	15,15,17	0.83	0
2	NAG	K	2	2	14,14,15	0.45	0	17,19,21	0.95	1 (5%)
2	XYP	K	3	2	9,9,10	0.16	0	10,12,14	0.54	0
2	XYP	K	4	2	9,9,10	0.16	0	10,12,14	0.59	0
2	XYP	K	5	2	9,9,10	0.17	0	10,12,14	0.63	0
2	MAN	K	6	2	11,11,12	0.24	0	15,15,17	0.73	0
2	XYP	K	7	2	9,9,10	0.18	0	10,12,14	0.59	0
2	AHR	K	8	2	9,9,10	0.58	0	10,12,14	0.75	0
2	MAN	L	1	1,2	11,11,12	0.25	0	15,15,17	0.82	0
2	NAG	L	2	2	14,14,15	0.44	0	17,19,21	0.87	1 (5%)
2	XYP	L	3	2	9,9,10	0.17	0	10,12,14	0.54	0
2	XYP	L	4	2	9,9,10	0.15	0	10,12,14	0.62	0
2	XYP	L	5	2	9,9,10	0.16	0	10,12,14	0.65	0
2	MAN	L	6	2	11,11,12	0.24	0	15,15,17	0.75	1 (6%)
2	XYP	L	7	2	9,9,10	0.18	0	10,12,14	0.59	0
2	AHR	L	8	2	9,9,10	0.56	0	10,12,14	0.74	0
2	MAN	M	1	1,2	11,11,12	0.22	0	15,15,17	0.82	0
2	NAG	M	2	2	14,14,15	0.42	0	17,19,21	0.89	1 (5%)
2	XYP	M	3	2	9,9,10	0.15	0	10,12,14	0.56	0
2	XYP	M	4	2	9,9,10	0.15	0	10,12,14	0.61	0
2	XYP	M	5	2	9,9,10	0.15	0	10,12,14	0.68	0
2	MAN	M	6	2	11,11,12	0.24	0	15,15,17	0.76	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	XYP	M	7	2	9,9,10	0.15	0	10,12,14	0.59	0
2	AHR	M	8	2	9,9,10	0.57	0	10,12,14	0.80	0
2	MAN	N	1	1,2	11,11,12	0.22	0	15,15,17	0.81	0
2	NAG	N	2	2	14,14,15	0.42	0	17,19,21	0.92	1 (5%)
2	XYP	N	3	2	9,9,10	0.14	0	10,12,14	0.56	0
2	XYP	N	4	2	9,9,10	0.17	0	10,12,14	0.61	0
2	XYP	N	5	2	9,9,10	0.15	0	10,12,14	0.67	0
2	MAN	N	6	2	11,11,12	0.24	0	15,15,17	0.75	0
2	XYP	N	7	2	9,9,10	0.15	0	10,12,14	0.61	0
2	AHR	N	8	2	9,9,10	0.57	0	10,12,14	0.81	0
2	MAN	O	1	1,2	11,11,12	0.23	0	15,15,17	0.82	0
2	NAG	O	2	2	14,14,15	0.42	0	17,19,21	0.96	1 (5%)
2	XYP	O	3	2	9,9,10	0.16	0	10,12,14	0.58	0
2	XYP	O	4	2	9,9,10	0.18	0	10,12,14	0.62	0
2	XYP	O	5	2	9,9,10	0.15	0	10,12,14	0.65	0
2	MAN	O	6	2	11,11,12	0.24	0	15,15,17	0.74	0
2	XYP	O	7	2	9,9,10	0.16	0	10,12,14	0.61	0
2	AHR	O	8	2	9,9,10	0.55	0	10,12,14	0.79	0
2	MAN	P	1	1,2	11,11,12	0.22	0	15,15,17	0.81	0
2	NAG	P	2	2	14,14,15	0.44	0	17,19,21	0.91	1 (5%)
2	XYP	P	3	2	9,9,10	0.18	0	10,12,14	0.57	0
2	XYP	P	4	2	9,9,10	0.18	0	10,12,14	0.63	0
2	XYP	P	5	2	9,9,10	0.15	0	10,12,14	0.65	0
2	MAN	P	6	2	11,11,12	0.23	0	15,15,17	0.74	0
2	XYP	P	7	2	9,9,10	0.17	0	10,12,14	0.61	0
2	AHR	P	8	2	9,9,10	0.54	0	10,12,14	0.81	0
2	MAN	Q	1	1,2	11,11,12	0.22	0	15,15,17	0.80	0
2	NAG	Q	2	2	14,14,15	0.46	0	17,19,21	0.84	0
2	XYP	Q	3	2	9,9,10	0.15	0	10,12,14	0.55	0
2	XYP	Q	4	2	9,9,10	0.18	0	10,12,14	0.61	0
2	XYP	Q	5	2	9,9,10	0.16	0	10,12,14	0.65	0
2	MAN	Q	6	2	11,11,12	0.23	0	15,15,17	0.74	0
2	XYP	Q	7	2	9,9,10	0.18	0	10,12,14	0.59	0
2	AHR	Q	8	2	9,9,10	0.55	0	10,12,14	0.88	0
2	MAN	R	1	1,2	11,11,12	0.19	0	15,15,17	0.82	0
2	NAG	R	2	2	14,14,15	0.46	0	17,19,21	0.93	0
2	XYP	R	3	2	9,9,10	0.16	0	10,12,14	0.55	0
2	XYP	R	4	2	9,9,10	0.18	0	10,12,14	0.63	0
2	XYP	R	5	2	9,9,10	0.15	0	10,12,14	0.65	0
2	MAN	R	6	2	11,11,12	0.25	0	15,15,17	0.75	0
2	XYP	R	7	2	9,9,10	0.17	0	10,12,14	0.60	0
2	AHR	R	8	2	9,9,10	0.58	0	10,12,14	0.84	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MAN	S	1	1,2	11,11,12	0.21	0	15,15,17	0.81	0
2	NAG	S	2	2	14,14,15	0.44	0	17,19,21	0.97	0
2	XYP	S	3	2	9,9,10	0.16	0	10,12,14	0.58	0
2	XYP	S	4	2	9,9,10	0.17	0	10,12,14	0.59	0
2	XYP	S	5	2	9,9,10	0.17	0	10,12,14	0.63	0
2	MAN	S	6	2	11,11,12	0.23	0	15,15,17	0.75	0
2	XYP	S	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	S	8	2	9,9,10	0.56	0	10,12,14	0.79	0
2	MAN	T	1	1,2	11,11,12	0.19	0	15,15,17	0.82	0
2	NAG	T	2	2	14,14,15	0.45	0	17,19,21	0.94	0
2	XYP	T	3	2	9,9,10	0.17	0	10,12,14	0.56	0
2	XYP	T	4	2	9,9,10	0.16	0	10,12,14	0.60	0
2	XYP	T	5	2	9,9,10	0.16	0	10,12,14	0.64	0
2	MAN	T	6	2	11,11,12	0.22	0	15,15,17	0.74	1 (6%)
2	XYP	T	7	2	9,9,10	0.17	0	10,12,14	0.58	0
2	AHR	T	8	2	9,9,10	0.56	0	10,12,14	0.80	0
2	MAN	U	1	1,2	11,11,12	0.21	0	15,15,17	0.82	1 (6%)
2	NAG	U	2	2	14,14,15	0.41	0	17,19,21	0.95	1 (5%)
2	XYP	U	3	2	9,9,10	0.16	0	10,12,14	0.55	0
2	XYP	U	4	2	9,9,10	0.16	0	10,12,14	0.61	0
2	XYP	U	5	2	9,9,10	0.17	0	10,12,14	0.64	0
2	MAN	U	6	2	11,11,12	0.25	0	15,15,17	0.75	1 (6%)
2	XYP	U	7	2	9,9,10	0.18	0	10,12,14	0.58	0
2	AHR	U	8	2	9,9,10	0.57	0	10,12,14	0.77	0
2	MAN	V	1	1,2	11,11,12	0.21	0	15,15,17	0.85	0
2	NAG	V	2	2	14,14,15	0.39	0	17,19,21	0.91	1 (5%)
2	XYP	V	3	2	9,9,10	0.15	0	10,12,14	0.57	0
2	XYP	V	4	2	9,9,10	0.15	0	10,12,14	0.63	0
2	XYP	V	5	2	9,9,10	0.17	0	10,12,14	0.66	0
2	MAN	V	6	2	11,11,12	0.26	0	15,15,17	0.76	1 (6%)
2	XYP	V	7	2	9,9,10	0.17	0	10,12,14	0.61	0
2	AHR	V	8	2	9,9,10	0.56	0	10,12,14	0.77	0
2	MAN	W	1	1,2	11,11,12	0.24	0	15,15,17	0.81	0
2	NAG	W	2	2	14,14,15	0.42	0	17,19,21	0.92	1 (5%)
2	XYP	W	3	2	9,9,10	0.17	0	10,12,14	0.57	0
2	XYP	W	4	2	9,9,10	0.18	0	10,12,14	0.62	0
2	XYP	W	5	2	9,9,10	0.16	0	10,12,14	0.66	0
2	MAN	W	6	2	11,11,12	0.26	0	15,15,17	0.73	0
2	XYP	W	7	2	9,9,10	0.18	0	10,12,14	0.61	0
2	AHR	W	8	2	9,9,10	0.56	0	10,12,14	0.84	0
2	MAN	X	1	1,2	11,11,12	0.23	0	15,15,17	0.81	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	NAG	X	2	2	14,14,15	0.42	0	17,19,21	0.98	1 (5%)
2	XYP	X	3	2	9,9,10	0.17	0	10,12,14	0.54	0
2	XYP	X	4	2	9,9,10	0.18	0	10,12,14	0.62	0
2	XYP	X	5	2	9,9,10	0.15	0	10,12,14	0.64	0
2	MAN	X	6	2	11,11,12	0.24	0	15,15,17	0.74	0
2	XYP	X	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	X	8	2	9,9,10	0.56	0	10,12,14	0.85	0
2	MAN	Y	1	1,2	11,11,12	0.25	0	15,15,17	0.80	0
2	NAG	Y	2	2	14,14,15	0.45	0	17,19,21	0.94	1 (5%)
2	XYP	Y	3	2	9,9,10	0.17	0	10,12,14	0.55	0
2	XYP	Y	4	2	9,9,10	0.17	0	10,12,14	0.62	0
2	XYP	Y	5	2	9,9,10	0.16	0	10,12,14	0.65	0
2	MAN	Y	6	2	11,11,12	0.24	0	15,15,17	0.74	0
2	XYP	Y	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	Y	8	2	9,9,10	0.59	0	10,12,14	0.82	0
2	MAN	Z	1	1,2	11,11,12	0.22	0	15,15,17	0.79	0
2	NAG	Z	2	2	14,14,15	0.44	0	17,19,21	0.92	1 (5%)
2	XYP	Z	3	2	9,9,10	0.16	0	10,12,14	0.54	0
2	XYP	Z	4	2	9,9,10	0.18	0	10,12,14	0.63	0
2	XYP	Z	5	2	9,9,10	0.17	0	10,12,14	0.62	0
2	MAN	Z	6	2	11,11,12	0.22	0	15,15,17	0.75	1 (6%)
2	XYP	Z	7	2	9,9,10	0.17	0	10,12,14	0.59	0
2	AHR	Z	8	2	9,9,10	0.57	0	10,12,14	0.83	0
2	MAN	a	1	1,2	11,11,12	0.22	0	15,15,17	0.81	0
2	NAG	a	2	2	14,14,15	0.45	0	17,19,21	0.90	1 (5%)
2	XYP	a	3	2	9,9,10	0.16	0	10,12,14	0.55	0
2	XYP	a	4	2	9,9,10	0.16	0	10,12,14	0.61	0
2	XYP	a	5	2	9,9,10	0.16	0	10,12,14	0.63	0
2	MAN	a	6	2	11,11,12	0.24	0	15,15,17	0.74	0
2	XYP	a	7	2	9,9,10	0.18	0	10,12,14	0.59	0
2	AHR	a	8	2	9,9,10	0.57	0	10,12,14	0.79	0
2	MAN	b	1	1,2	11,11,12	0.23	0	15,15,17	0.81	0
2	NAG	b	2	2	14,14,15	0.43	0	17,19,21	0.96	1 (5%)
2	XYP	b	3	2	9,9,10	0.18	0	10,12,14	0.55	0
2	XYP	b	4	2	9,9,10	0.17	0	10,12,14	0.62	0
2	XYP	b	5	2	9,9,10	0.16	0	10,12,14	0.64	0
2	MAN	b	6	2	11,11,12	0.22	0	15,15,17	0.74	0
2	XYP	b	7	2	9,9,10	0.18	0	10,12,14	0.61	0
2	AHR	b	8	2	9,9,10	0.57	0	10,12,14	0.79	0
2	MAN	c	1	1,2	11,11,12	0.21	0	15,15,17	0.82	0
2	NAG	c	2	2	14,14,15	0.43	0	17,19,21	1.00	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	XYP	c	3	2	9,9,10	0.17	0	10,12,14	0.57	0
2	XYP	c	4	2	9,9,10	0.18	0	10,12,14	0.61	0
2	XYP	c	5	2	9,9,10	0.16	0	10,12,14	0.63	0
2	MAN	c	6	2	11,11,12	0.23	0	15,15,17	0.73	0
2	XYP	c	7	2	9,9,10	0.18	0	10,12,14	0.60	0
2	AHR	c	8	2	9,9,10	0.56	0	10,12,14	0.78	0
2	MAN	d	1	1,2	11,11,12	0.24	0	15,15,17	0.81	0
2	NAG	d	2	2	14,14,15	0.43	0	17,19,21	0.92	1 (5%)
2	XYP	d	3	2	9,9,10	0.15	0	10,12,14	0.53	0
2	XYP	d	4	2	9,9,10	0.17	0	10,12,14	0.63	0
2	XYP	d	5	2	9,9,10	0.16	0	10,12,14	0.61	0
2	MAN	d	6	2	11,11,12	0.23	0	15,15,17	0.76	1 (6%)
2	XYP	d	7	2	9,9,10	0.19	0	10,12,14	0.62	0
2	AHR	d	8	2	9,9,10	0.57	0	10,12,14	0.77	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	MAN	D	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	D	2	2	-	2/6/23/26	0/1/1/1
2	XYP	D	3	2	-	-	0/1/1/1
2	XYP	D	4	2	-	-	0/1/1/1
2	XYP	D	5	2	-	-	0/1/1/1
2	MAN	D	6	2	-	1/2/19/22	0/1/1/1
2	XYP	D	7	2	-	-	0/1/1/1
2	AHR	D	8	2	-	0/2/15/18	0/1/1/1
2	MAN	E	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	E	2	2	-	2/6/23/26	0/1/1/1
2	XYP	E	3	2	-	-	0/1/1/1
2	XYP	E	4	2	-	-	0/1/1/1
2	XYP	E	5	2	-	-	0/1/1/1
2	MAN	E	6	2	-	1/2/19/22	0/1/1/1
2	XYP	E	7	2	-	-	0/1/1/1
2	AHR	E	8	2	-	0/2/15/18	0/1/1/1
2	MAN	F	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	F	2	2	-	2/6/23/26	0/1/1/1
2	XYP	F	3	2	-	-	0/1/1/1
2	XYP	F	4	2	-	-	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	XYP	F	5	2	-	-	0/1/1/1
2	MAN	F	6	2	-	1/2/19/22	0/1/1/1
2	XYP	F	7	2	-	-	0/1/1/1
2	AHR	F	8	2	-	0/2/15/18	0/1/1/1
2	MAN	G	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	G	2	2	-	2/6/23/26	0/1/1/1
2	XYP	G	3	2	-	-	0/1/1/1
2	XYP	G	4	2	-	-	0/1/1/1
2	XYP	G	5	2	-	-	0/1/1/1
2	MAN	G	6	2	-	1/2/19/22	0/1/1/1
2	XYP	G	7	2	-	-	0/1/1/1
2	AHR	G	8	2	-	0/2/15/18	0/1/1/1
2	MAN	H	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	H	2	2	-	2/6/23/26	0/1/1/1
2	XYP	H	3	2	-	-	0/1/1/1
2	XYP	H	4	2	-	-	0/1/1/1
2	XYP	H	5	2	-	-	0/1/1/1
2	MAN	H	6	2	-	1/2/19/22	0/1/1/1
2	XYP	H	7	2	-	-	0/1/1/1
2	AHR	H	8	2	-	0/2/15/18	0/1/1/1
2	MAN	I	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	I	2	2	-	2/6/23/26	0/1/1/1
2	XYP	I	3	2	-	-	0/1/1/1
2	XYP	I	4	2	-	-	0/1/1/1
2	XYP	I	5	2	-	-	0/1/1/1
2	MAN	I	6	2	-	1/2/19/22	0/1/1/1
2	XYP	I	7	2	-	-	0/1/1/1
2	AHR	I	8	2	-	0/2/15/18	0/1/1/1
2	MAN	J	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	J	2	2	-	2/6/23/26	0/1/1/1
2	XYP	J	3	2	-	-	0/1/1/1
2	XYP	J	4	2	-	-	0/1/1/1
2	XYP	J	5	2	-	-	0/1/1/1
2	MAN	J	6	2	-	1/2/19/22	0/1/1/1
2	XYP	J	7	2	-	-	0/1/1/1
2	AHR	J	8	2	-	0/2/15/18	0/1/1/1
2	MAN	K	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	K	2	2	-	2/6/23/26	0/1/1/1
2	XYP	K	3	2	-	-	0/1/1/1
2	XYP	K	4	2	-	-	0/1/1/1
2	XYP	K	5	2	-	-	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	K	6	2	-	1/2/19/22	0/1/1/1
2	XYP	K	7	2	-	-	0/1/1/1
2	AHR	K	8	2	-	0/2/15/18	0/1/1/1
2	MAN	L	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	L	2	2	-	2/6/23/26	0/1/1/1
2	XYP	L	3	2	-	-	0/1/1/1
2	XYP	L	4	2	-	-	0/1/1/1
2	XYP	L	5	2	-	-	0/1/1/1
2	MAN	L	6	2	-	1/2/19/22	0/1/1/1
2	XYP	L	7	2	-	-	0/1/1/1
2	AHR	L	8	2	-	0/2/15/18	0/1/1/1
2	MAN	M	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	M	2	2	-	2/6/23/26	0/1/1/1
2	XYP	M	3	2	-	-	0/1/1/1
2	XYP	M	4	2	-	-	0/1/1/1
2	XYP	M	5	2	-	-	0/1/1/1
2	MAN	M	6	2	-	1/2/19/22	0/1/1/1
2	XYP	M	7	2	-	-	0/1/1/1
2	AHR	M	8	2	-	0/2/15/18	0/1/1/1
2	MAN	N	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	N	2	2	-	2/6/23/26	0/1/1/1
2	XYP	N	3	2	-	-	0/1/1/1
2	XYP	N	4	2	-	-	0/1/1/1
2	XYP	N	5	2	-	-	0/1/1/1
2	MAN	N	6	2	-	1/2/19/22	0/1/1/1
2	XYP	N	7	2	-	-	0/1/1/1
2	AHR	N	8	2	-	0/2/15/18	0/1/1/1
2	MAN	O	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	O	2	2	-	2/6/23/26	0/1/1/1
2	XYP	O	3	2	-	-	0/1/1/1
2	XYP	O	4	2	-	-	0/1/1/1
2	XYP	O	5	2	-	-	0/1/1/1
2	MAN	O	6	2	-	1/2/19/22	0/1/1/1
2	XYP	O	7	2	-	-	0/1/1/1
2	AHR	O	8	2	-	0/2/15/18	0/1/1/1
2	MAN	P	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	P	2	2	-	2/6/23/26	0/1/1/1
2	XYP	P	3	2	-	-	0/1/1/1
2	XYP	P	4	2	-	-	0/1/1/1
2	XYP	P	5	2	-	-	0/1/1/1
2	MAN	P	6	2	-	1/2/19/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	XYP	P	7	2	-	-	0/1/1/1
2	AHR	P	8	2	-	0/2/15/18	0/1/1/1
2	MAN	Q	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	Q	2	2	-	2/6/23/26	0/1/1/1
2	XYP	Q	3	2	-	-	0/1/1/1
2	XYP	Q	4	2	-	-	0/1/1/1
2	XYP	Q	5	2	-	-	0/1/1/1
2	MAN	Q	6	2	-	1/2/19/22	0/1/1/1
2	XYP	Q	7	2	-	-	0/1/1/1
2	AHR	Q	8	2	-	0/2/15/18	0/1/1/1
2	MAN	R	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	R	2	2	-	2/6/23/26	0/1/1/1
2	XYP	R	3	2	-	-	0/1/1/1
2	XYP	R	4	2	-	-	0/1/1/1
2	XYP	R	5	2	-	-	0/1/1/1
2	MAN	R	6	2	-	1/2/19/22	0/1/1/1
2	XYP	R	7	2	-	-	0/1/1/1
2	AHR	R	8	2	-	0/2/15/18	0/1/1/1
2	MAN	S	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	S	2	2	-	2/6/23/26	0/1/1/1
2	XYP	S	3	2	-	-	0/1/1/1
2	XYP	S	4	2	-	-	0/1/1/1
2	XYP	S	5	2	-	-	0/1/1/1
2	MAN	S	6	2	-	1/2/19/22	0/1/1/1
2	XYP	S	7	2	-	-	0/1/1/1
2	AHR	S	8	2	-	0/2/15/18	0/1/1/1
2	MAN	T	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	T	2	2	-	2/6/23/26	0/1/1/1
2	XYP	T	3	2	-	-	0/1/1/1
2	XYP	T	4	2	-	-	0/1/1/1
2	XYP	T	5	2	-	-	0/1/1/1
2	MAN	T	6	2	-	1/2/19/22	0/1/1/1
2	XYP	T	7	2	-	-	0/1/1/1
2	AHR	T	8	2	-	0/2/15/18	0/1/1/1
2	MAN	U	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	U	2	2	-	2/6/23/26	0/1/1/1
2	XYP	U	3	2	-	-	0/1/1/1
2	XYP	U	4	2	-	-	0/1/1/1
2	XYP	U	5	2	-	-	0/1/1/1
2	MAN	U	6	2	-	1/2/19/22	0/1/1/1
2	XYP	U	7	2	-	-	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	AHR	U	8	2	-	0/2/15/18	0/1/1/1
2	MAN	V	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	V	2	2	-	2/6/23/26	0/1/1/1
2	XYP	V	3	2	-	-	0/1/1/1
2	XYP	V	4	2	-	-	0/1/1/1
2	XYP	V	5	2	-	-	0/1/1/1
2	MAN	V	6	2	-	1/2/19/22	0/1/1/1
2	XYP	V	7	2	-	-	0/1/1/1
2	AHR	V	8	2	-	0/2/15/18	0/1/1/1
2	MAN	W	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	W	2	2	-	2/6/23/26	0/1/1/1
2	XYP	W	3	2	-	-	0/1/1/1
2	XYP	W	4	2	-	-	0/1/1/1
2	XYP	W	5	2	-	-	0/1/1/1
2	MAN	W	6	2	-	1/2/19/22	0/1/1/1
2	XYP	W	7	2	-	-	0/1/1/1
2	AHR	W	8	2	-	0/2/15/18	0/1/1/1
2	MAN	X	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	X	2	2	-	2/6/23/26	0/1/1/1
2	XYP	X	3	2	-	-	0/1/1/1
2	XYP	X	4	2	-	-	0/1/1/1
2	XYP	X	5	2	-	-	0/1/1/1
2	MAN	X	6	2	-	1/2/19/22	0/1/1/1
2	XYP	X	7	2	-	-	0/1/1/1
2	AHR	X	8	2	-	0/2/15/18	0/1/1/1
2	MAN	Y	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	Y	2	2	-	2/6/23/26	0/1/1/1
2	XYP	Y	3	2	-	-	0/1/1/1
2	XYP	Y	4	2	-	-	0/1/1/1
2	XYP	Y	5	2	-	-	0/1/1/1
2	MAN	Y	6	2	-	1/2/19/22	0/1/1/1
2	XYP	Y	7	2	-	-	0/1/1/1
2	AHR	Y	8	2	-	0/2/15/18	0/1/1/1
2	MAN	Z	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	Z	2	2	-	2/6/23/26	0/1/1/1
2	XYP	Z	3	2	-	-	0/1/1/1
2	XYP	Z	4	2	-	-	0/1/1/1
2	XYP	Z	5	2	-	-	0/1/1/1
2	MAN	Z	6	2	-	1/2/19/22	0/1/1/1
2	XYP	Z	7	2	-	-	0/1/1/1
2	AHR	Z	8	2	-	0/2/15/18	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MAN	a	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	a	2	2	-	2/6/23/26	0/1/1/1
2	XYP	a	3	2	-	-	0/1/1/1
2	XYP	a	4	2	-	-	0/1/1/1
2	XYP	a	5	2	-	-	0/1/1/1
2	MAN	a	6	2	-	1/2/19/22	0/1/1/1
2	XYP	a	7	2	-	-	0/1/1/1
2	AHR	a	8	2	-	0/2/15/18	0/1/1/1
2	MAN	b	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	b	2	2	-	2/6/23/26	0/1/1/1
2	XYP	b	3	2	-	-	0/1/1/1
2	XYP	b	4	2	-	-	0/1/1/1
2	XYP	b	5	2	-	-	0/1/1/1
2	MAN	b	6	2	-	1/2/19/22	0/1/1/1
2	XYP	b	7	2	-	-	0/1/1/1
2	AHR	b	8	2	-	0/2/15/18	0/1/1/1
2	MAN	c	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	c	2	2	-	2/6/23/26	0/1/1/1
2	XYP	c	3	2	-	-	0/1/1/1
2	XYP	c	4	2	-	-	0/1/1/1
2	XYP	c	5	2	-	-	0/1/1/1
2	MAN	c	6	2	-	1/2/19/22	0/1/1/1
2	XYP	c	7	2	-	-	0/1/1/1
2	AHR	c	8	2	-	0/2/15/18	0/1/1/1
2	MAN	d	1	1,2	-	0/2/19/22	0/1/1/1
2	NAG	d	2	2	-	2/6/23/26	0/1/1/1
2	XYP	d	3	2	-	-	0/1/1/1
2	XYP	d	4	2	-	-	0/1/1/1
2	XYP	d	5	2	-	-	0/1/1/1
2	MAN	d	6	2	-	1/2/19/22	0/1/1/1
2	XYP	d	7	2	-	-	0/1/1/1
2	AHR	d	8	2	-	0/2/15/18	0/1/1/1

There are no bond length outliers.

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U	2	NAG	O3-C3-C2	-2.20	104.92	109.47
2	W	2	NAG	O3-C3-C2	-2.18	104.95	109.47
2	D	2	NAG	O3-C3-C2	-2.18	104.95	109.47
2	V	2	NAG	O3-C3-C2	-2.16	104.99	109.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	2	NAG	O3-C3-C2	-2.15	105.02	109.47
2	I	2	NAG	O3-C3-C2	-2.14	105.04	109.47
2	c	2	NAG	O3-C3-C2	-2.13	105.05	109.47
2	M	2	NAG	O3-C3-C2	-2.11	105.09	109.47
2	Z	2	NAG	O3-C3-C2	-2.11	105.10	109.47
2	I	6	MAN	C1-C2-C3	2.11	112.26	109.67
2	b	2	NAG	O3-C3-C2	-2.09	105.14	109.47
2	J	2	NAG	O3-C3-C2	-2.08	105.17	109.47
2	O	2	NAG	O3-C3-C2	-2.08	105.17	109.47
2	F	2	NAG	O3-C3-C2	-2.07	105.17	109.47
2	E	6	MAN	C1-C2-C3	2.07	112.22	109.67
2	X	2	NAG	O3-C3-C2	-2.07	105.18	109.47
2	U	6	MAN	C1-C2-C3	2.06	112.20	109.67
2	d	2	NAG	O3-C3-C2	-2.06	105.20	109.47
2	Y	2	NAG	O3-C3-C2	-2.06	105.21	109.47
2	Z	6	MAN	C1-C2-C3	2.06	112.19	109.67
2	d	6	MAN	C1-C2-C3	2.04	112.18	109.67
2	L	6	MAN	C1-C2-C3	2.04	112.17	109.67
2	G	2	NAG	O3-C3-C2	-2.03	105.26	109.47
2	T	6	MAN	C1-C2-C3	2.02	112.14	109.67
2	K	2	NAG	O3-C3-C2	-2.01	105.30	109.47
2	L	2	NAG	O3-C3-C2	-2.01	105.31	109.47
2	U	1	MAN	C1-C2-C3	2.01	112.13	109.67
2	V	6	MAN	C1-C2-C3	2.01	112.13	109.67
2	a	2	NAG	O3-C3-C2	-2.01	105.32	109.47
2	M	6	MAN	C1-C2-C3	2.00	112.13	109.67
2	P	2	NAG	O3-C3-C2	-2.00	105.33	109.47

There are no chirality outliers.

All (81) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	I	2	NAG	C8-C7-N2-C2
2	I	2	NAG	O7-C7-N2-C2
2	M	2	NAG	C8-C7-N2-C2
2	M	2	NAG	O7-C7-N2-C2
2	a	2	NAG	O7-C7-N2-C2
2	b	2	NAG	C8-C7-N2-C2
2	b	2	NAG	O7-C7-N2-C2
2	F	2	NAG	C8-C7-N2-C2
2	G	2	NAG	C8-C7-N2-C2
2	H	2	NAG	C8-C7-N2-C2

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Mol	Chain	Res	Type	Atoms
2	H	2	NAG	O7-C7-N2-C2
2	J	2	NAG	C8-C7-N2-C2
2	K	2	NAG	C8-C7-N2-C2
2	L	2	NAG	C8-C7-N2-C2
2	O	2	NAG	C8-C7-N2-C2
2	O	2	NAG	O7-C7-N2-C2
2	Q	2	NAG	C8-C7-N2-C2
2	Q	2	NAG	O7-C7-N2-C2
2	R	2	NAG	C8-C7-N2-C2
2	S	2	NAG	C8-C7-N2-C2
2	T	2	NAG	C8-C7-N2-C2
2	V	2	NAG	C8-C7-N2-C2
2	X	2	NAG	C8-C7-N2-C2
2	Z	2	NAG	C8-C7-N2-C2
2	a	2	NAG	C8-C7-N2-C2
2	c	2	NAG	C8-C7-N2-C2
2	D	2	NAG	C8-C7-N2-C2
2	F	2	NAG	O7-C7-N2-C2
2	G	2	NAG	O7-C7-N2-C2
2	K	2	NAG	O7-C7-N2-C2
2	L	2	NAG	O7-C7-N2-C2
2	N	2	NAG	C8-C7-N2-C2
2	P	2	NAG	C8-C7-N2-C2
2	R	2	NAG	O7-C7-N2-C2
2	S	2	NAG	O7-C7-N2-C2
2	T	2	NAG	O7-C7-N2-C2
2	U	2	NAG	C8-C7-N2-C2
2	V	2	NAG	O7-C7-N2-C2
2	W	2	NAG	C8-C7-N2-C2
2	X	2	NAG	O7-C7-N2-C2
2	Y	2	NAG	C8-C7-N2-C2
2	Z	2	NAG	O7-C7-N2-C2
2	D	2	NAG	O7-C7-N2-C2
2	E	2	NAG	C8-C7-N2-C2
2	E	2	NAG	O7-C7-N2-C2
2	J	2	NAG	O7-C7-N2-C2
2	N	2	NAG	O7-C7-N2-C2
2	P	2	NAG	O7-C7-N2-C2
2	U	2	NAG	O7-C7-N2-C2
2	W	2	NAG	O7-C7-N2-C2
2	Y	2	NAG	O7-C7-N2-C2
2	c	2	NAG	O7-C7-N2-C2

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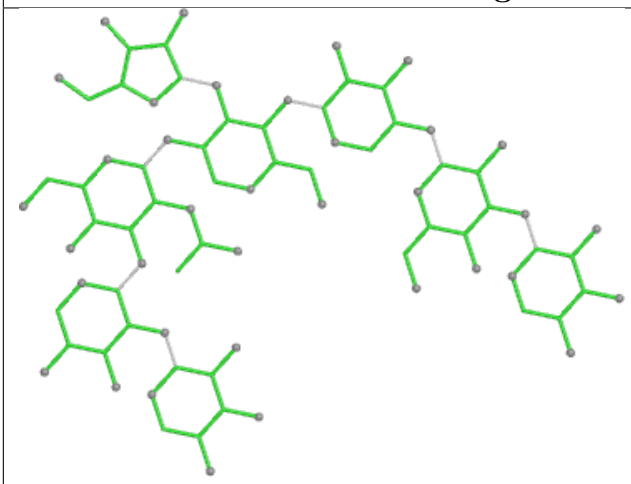
Mol	Chain	Res	Type	Atoms
2	d	2	NAG	C8-C7-N2-C2
2	d	2	NAG	O7-C7-N2-C2
2	E	6	MAN	O5-C5-C6-O6
2	F	6	MAN	O5-C5-C6-O6
2	M	6	MAN	O5-C5-C6-O6
2	N	6	MAN	O5-C5-C6-O6
2	O	6	MAN	O5-C5-C6-O6
2	V	6	MAN	O5-C5-C6-O6
2	W	6	MAN	O5-C5-C6-O6
2	X	6	MAN	O5-C5-C6-O6
2	D	6	MAN	O5-C5-C6-O6
2	G	6	MAN	O5-C5-C6-O6
2	H	6	MAN	O5-C5-C6-O6
2	I	6	MAN	O5-C5-C6-O6
2	P	6	MAN	O5-C5-C6-O6
2	Q	6	MAN	O5-C5-C6-O6
2	Y	6	MAN	O5-C5-C6-O6
2	Z	6	MAN	O5-C5-C6-O6
2	J	6	MAN	O5-C5-C6-O6
2	K	6	MAN	O5-C5-C6-O6
2	L	6	MAN	O5-C5-C6-O6
2	R	6	MAN	O5-C5-C6-O6
2	S	6	MAN	O5-C5-C6-O6
2	T	6	MAN	O5-C5-C6-O6
2	U	6	MAN	O5-C5-C6-O6
2	a	6	MAN	O5-C5-C6-O6
2	b	6	MAN	O5-C5-C6-O6
2	c	6	MAN	O5-C5-C6-O6
2	d	6	MAN	O5-C5-C6-O6

There are no ring outliers.

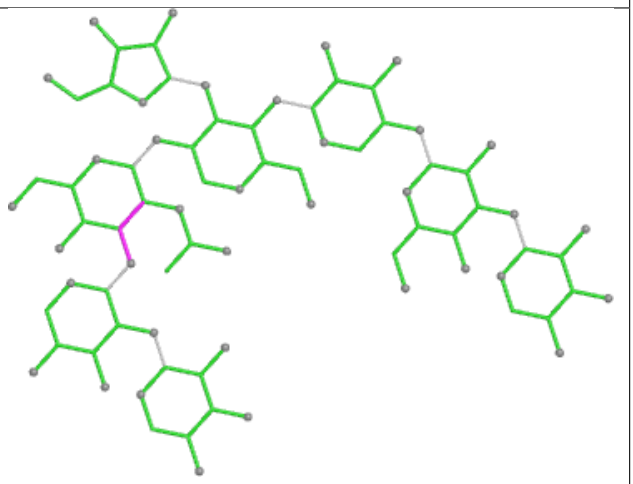
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

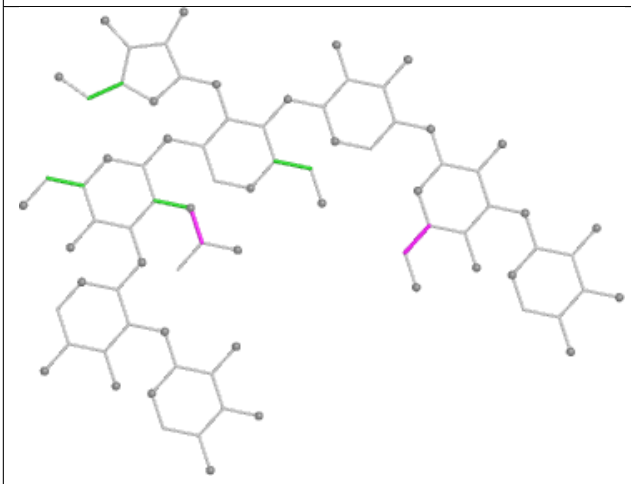
Oligosaccharide Chain D



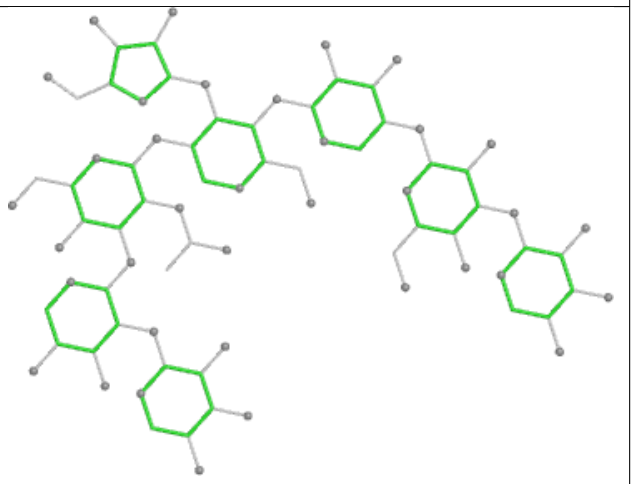
Bond lengths



Bond angles

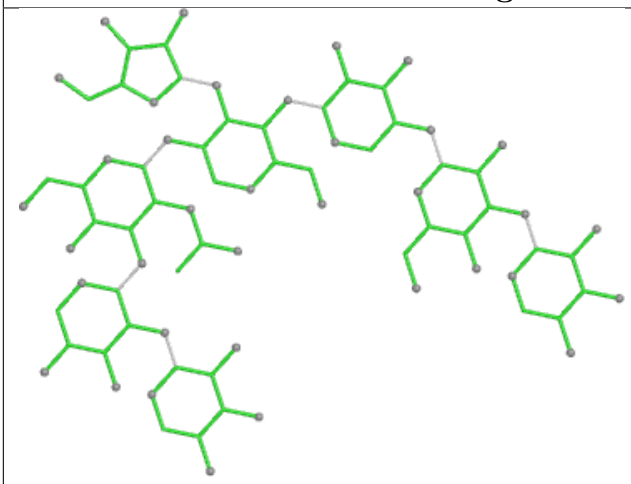


Torsions

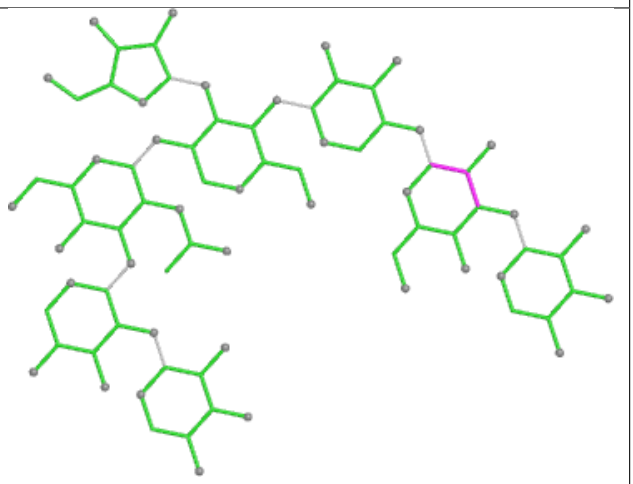


Rings

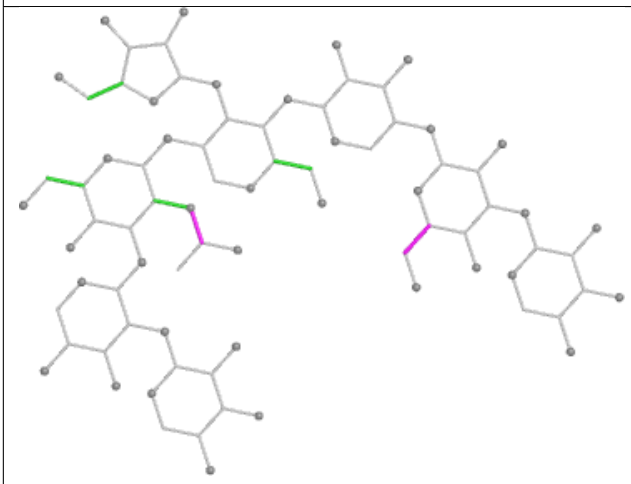
Oligosaccharide Chain E



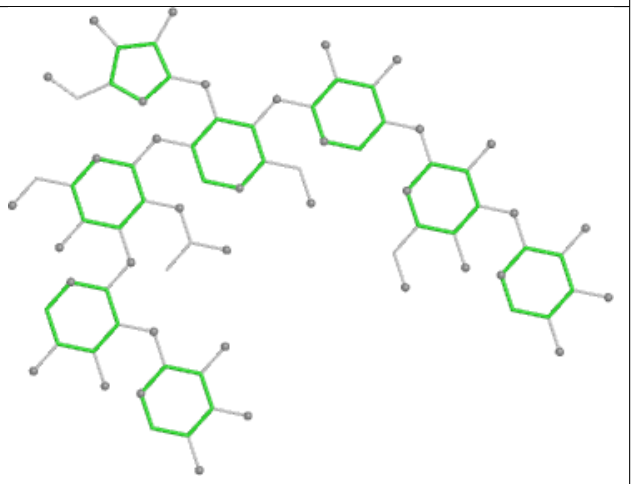
Bond lengths



Bond angles

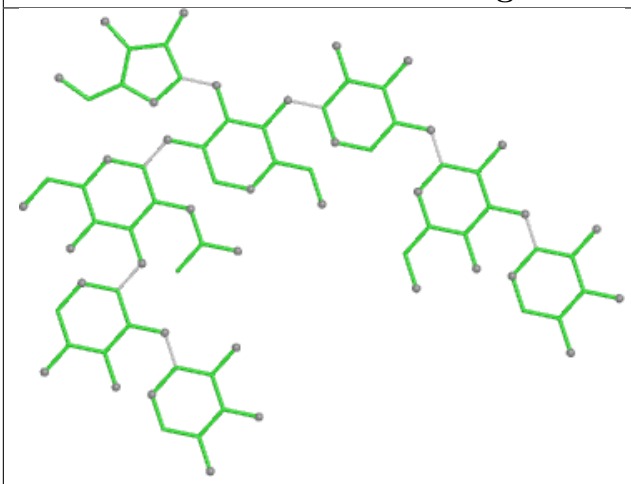


Torsions

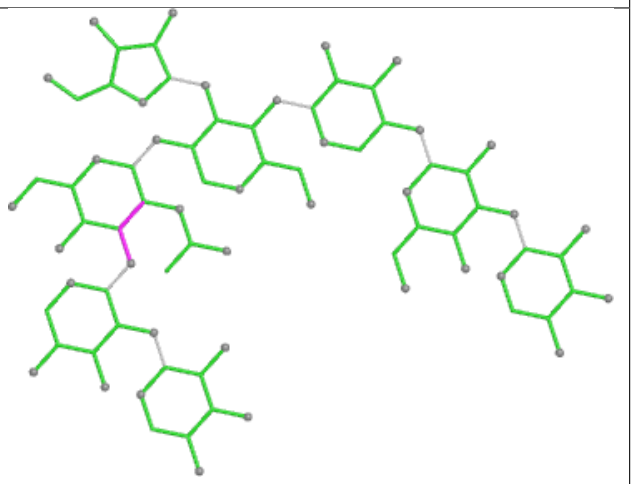


Rings

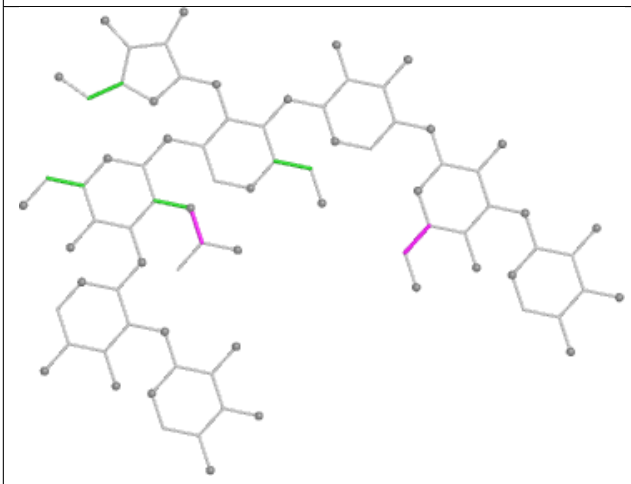
Oligosaccharide Chain F



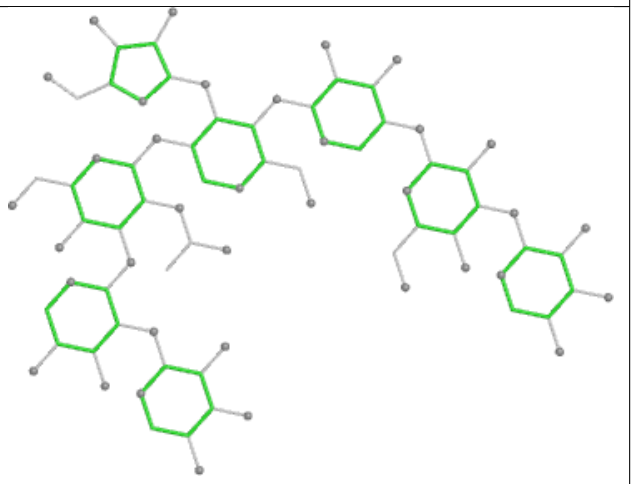
Bond lengths



Bond angles

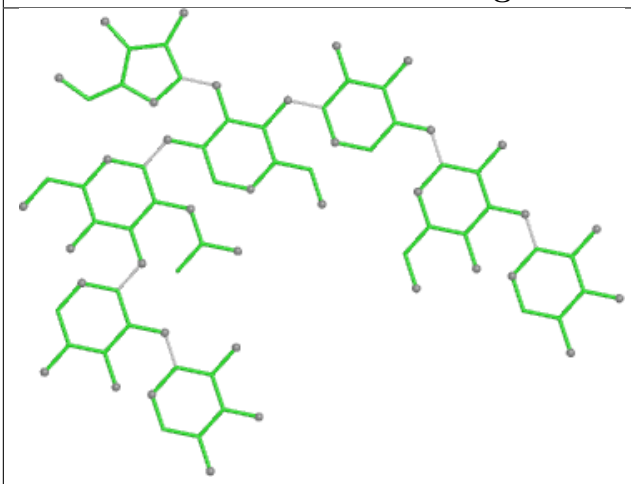


Torsions

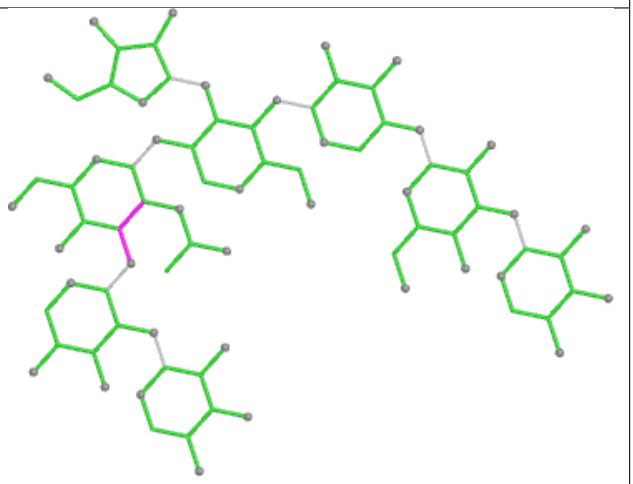


Rings

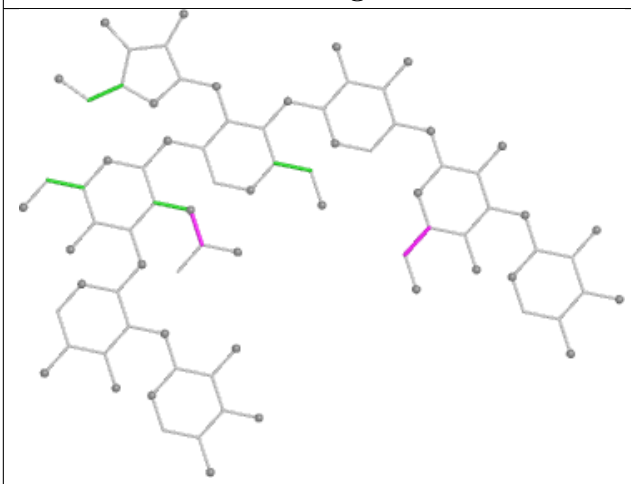
Oligosaccharide Chain G



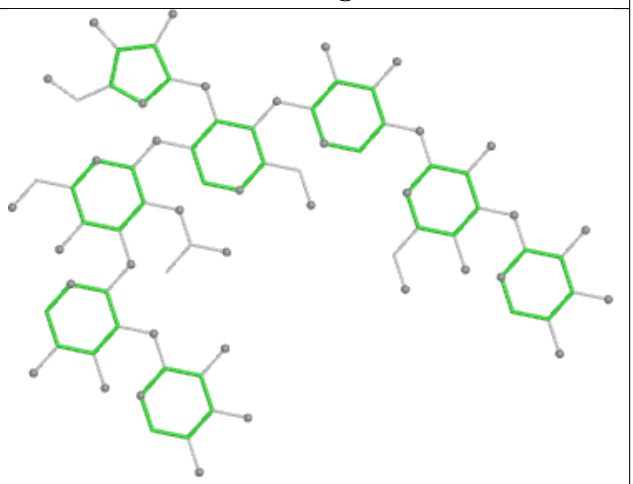
Bond lengths



Bond angles

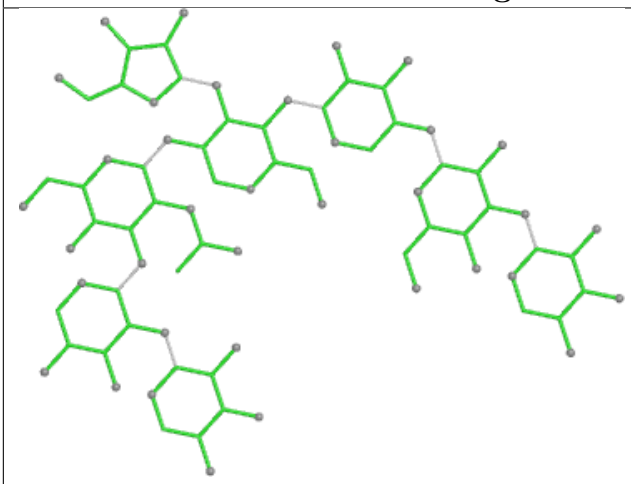


Torsions

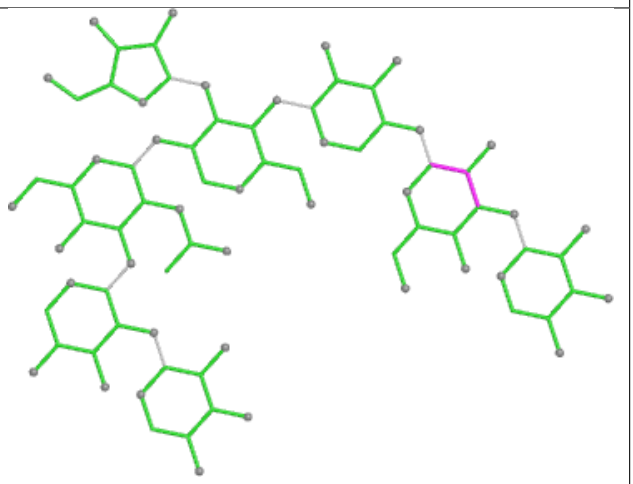


Rings

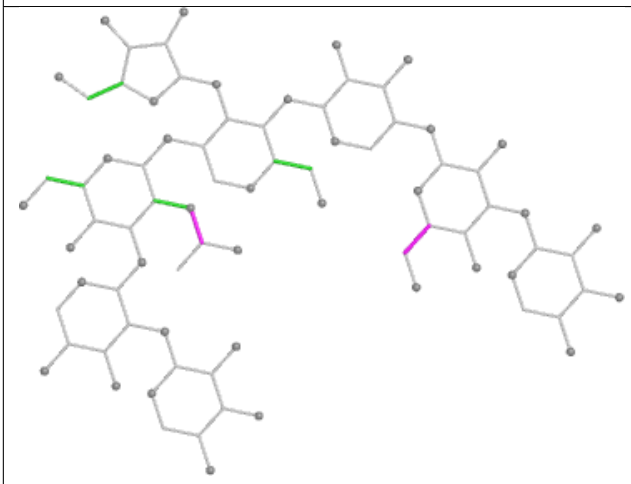
Oligosaccharide Chain H



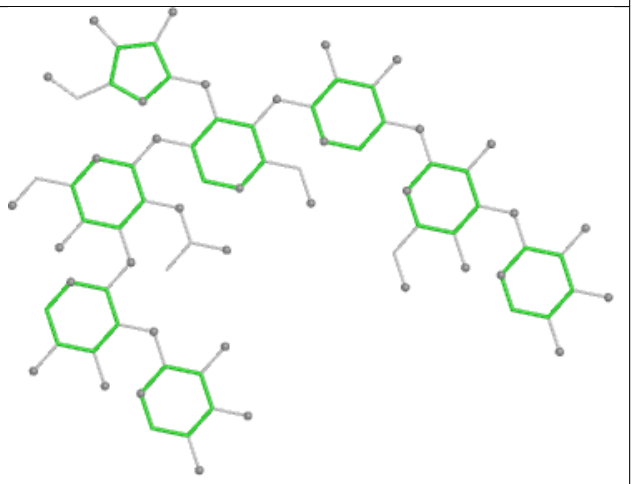
Bond lengths



Bond angles

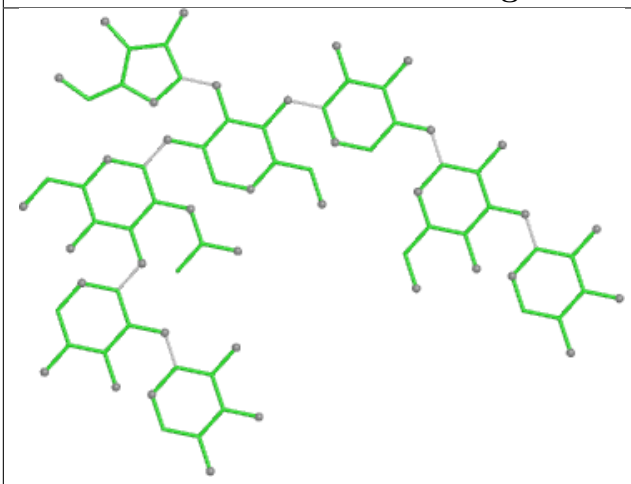


Torsions

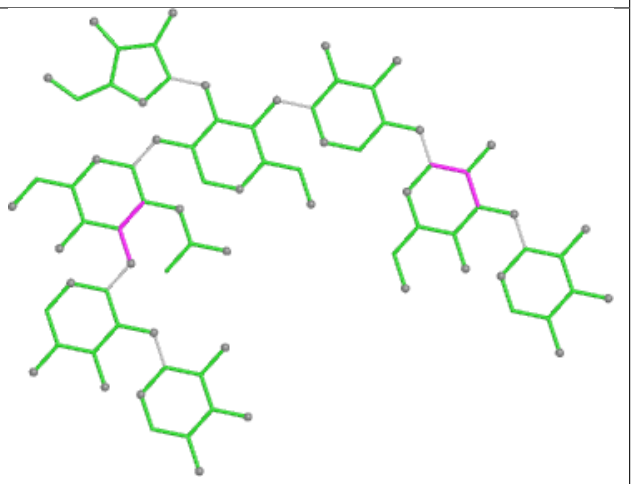


Rings

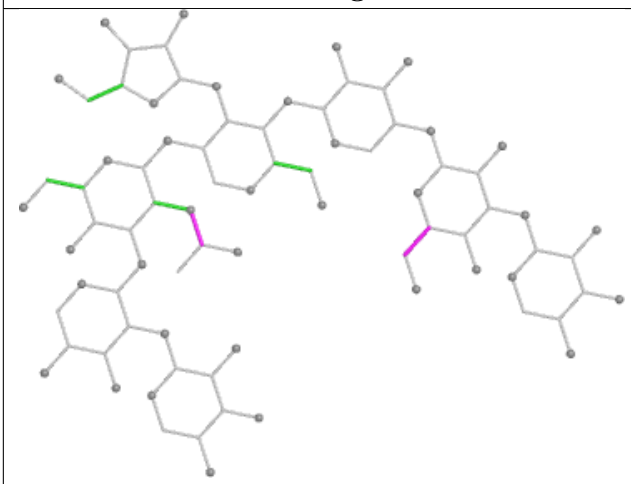
Oligosaccharide Chain I



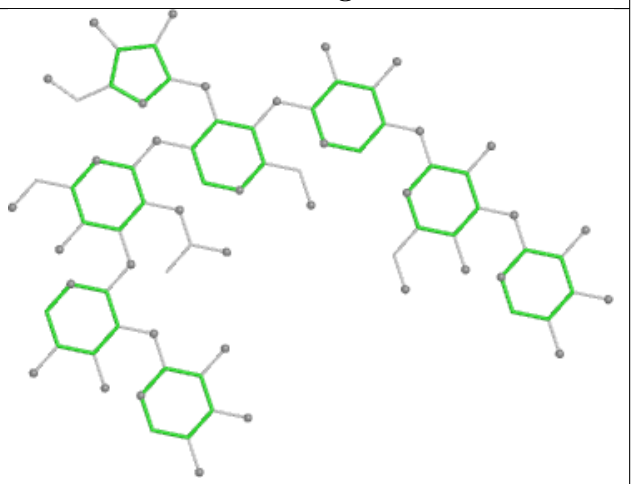
Bond lengths



Bond angles

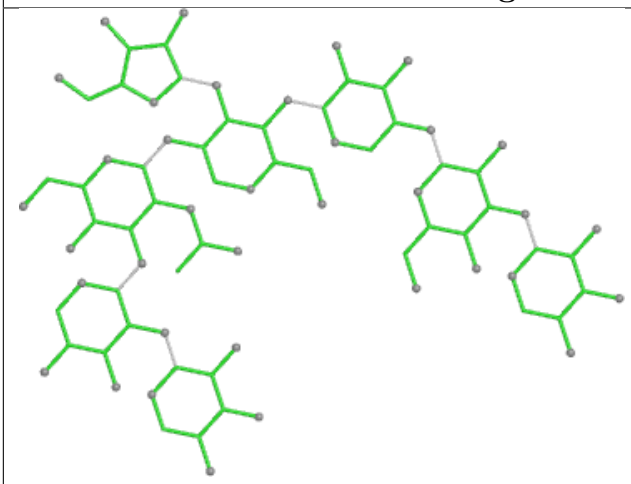


Torsions



Rings

Oligosaccharide Chain J



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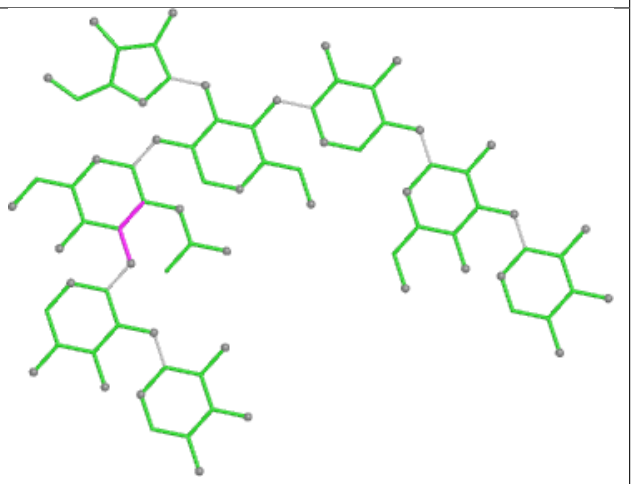

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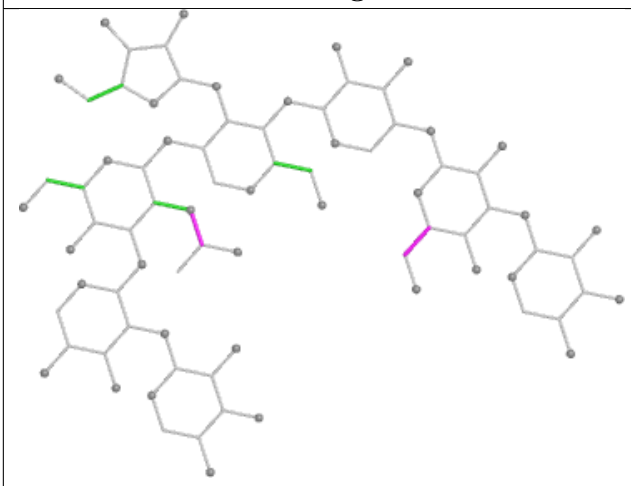

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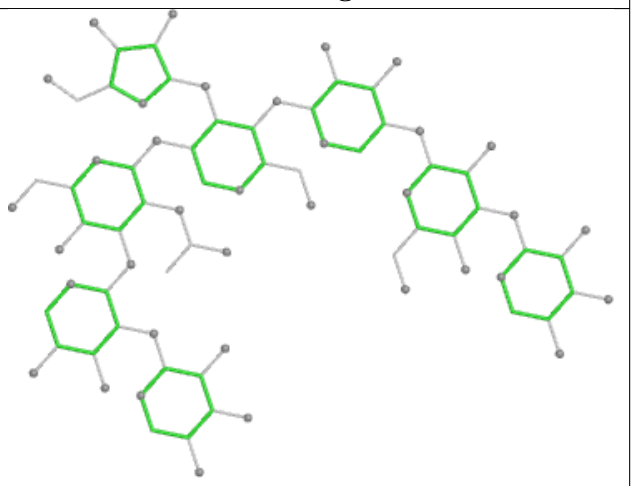
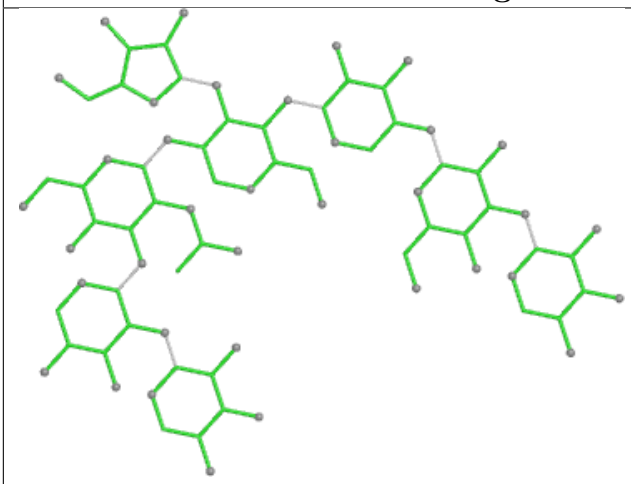


Rings

Oligosaccharide Chain K



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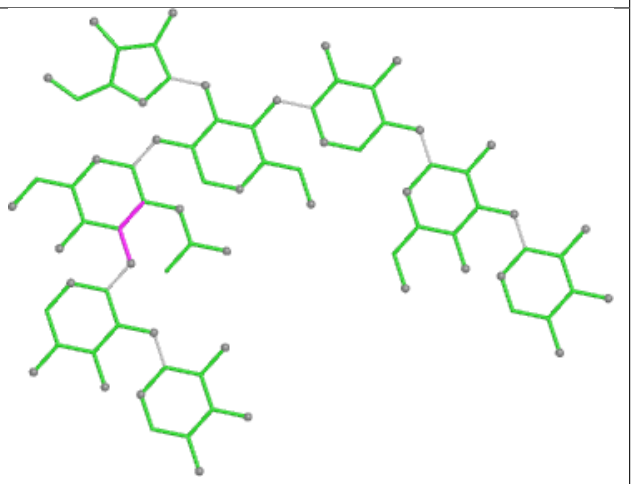

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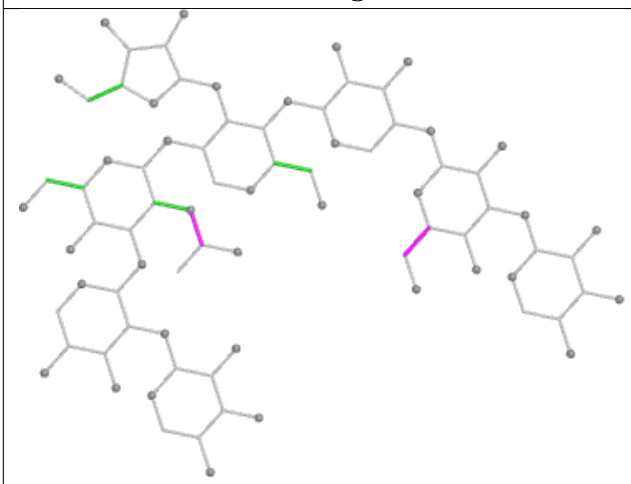

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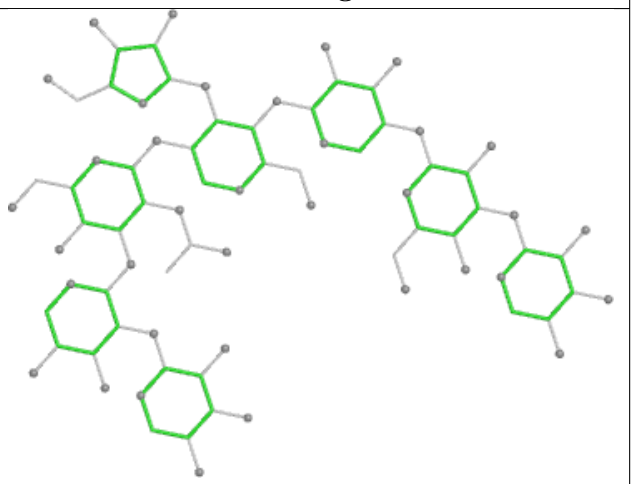
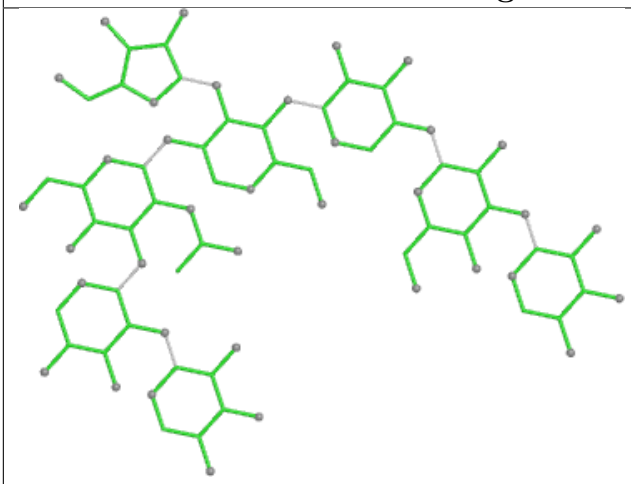


Rings

Oligosaccharide Chain L



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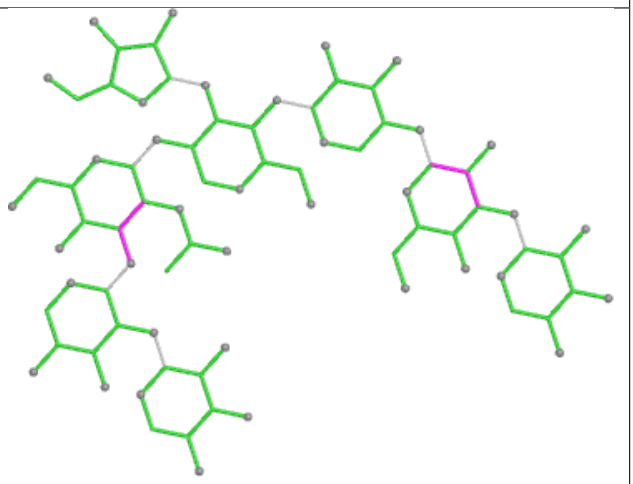
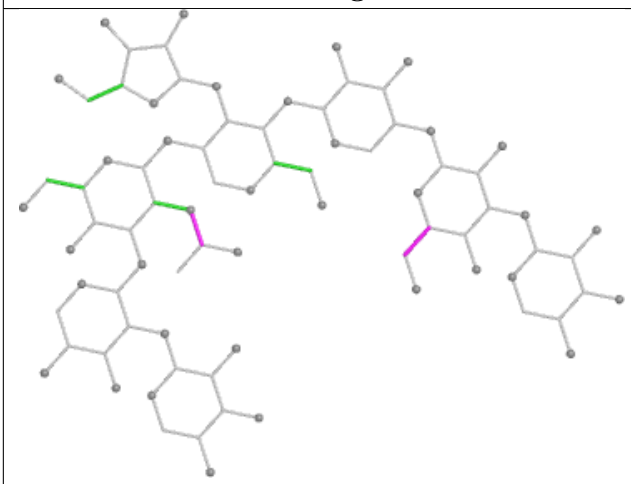


Bond angles



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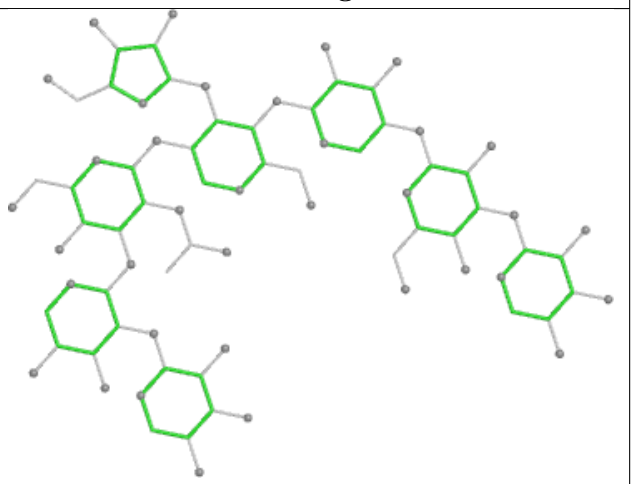
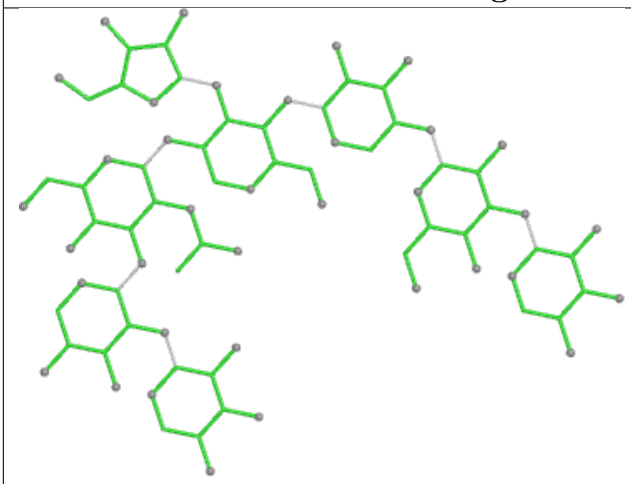


Rings

Oligosaccharide Chain M



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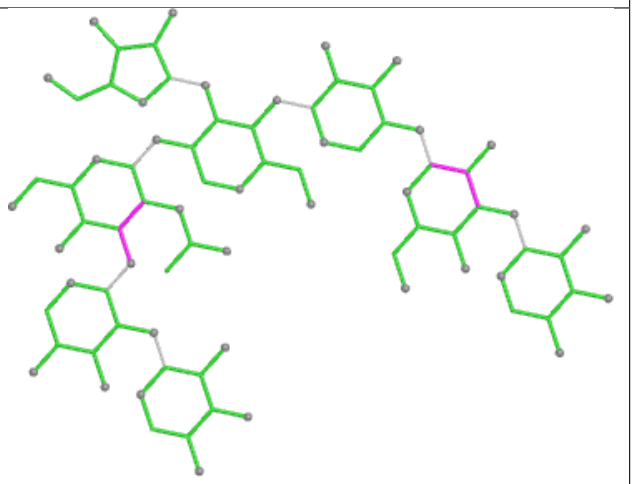

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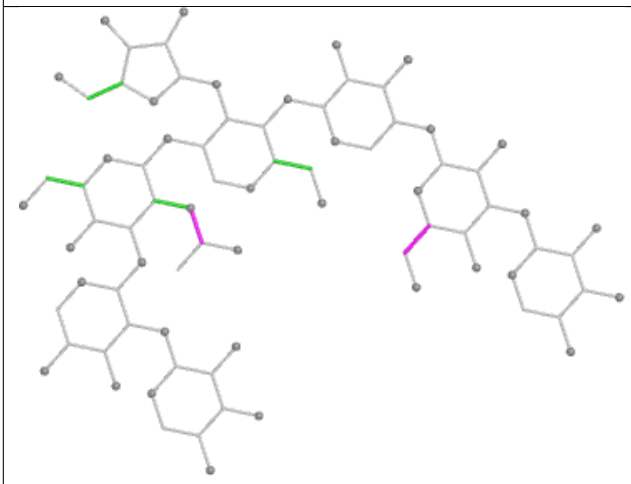

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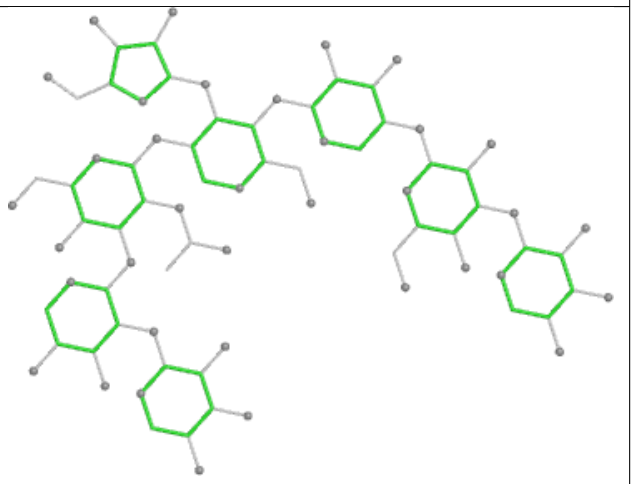
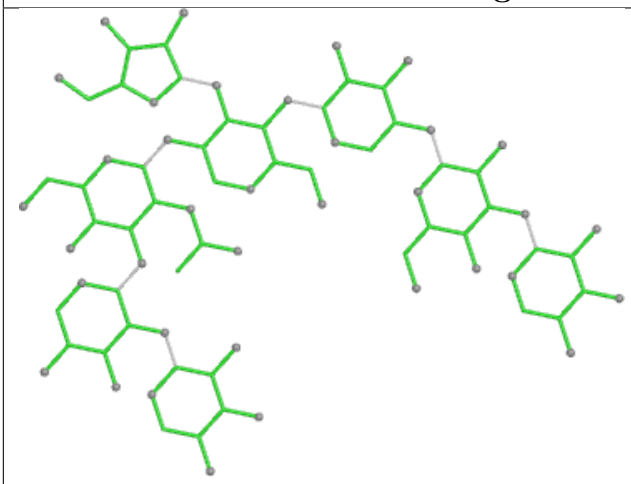


Rings

Oligosaccharide Chain N



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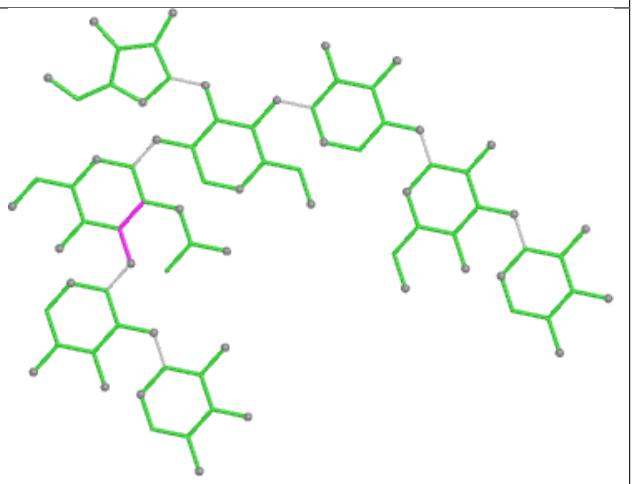

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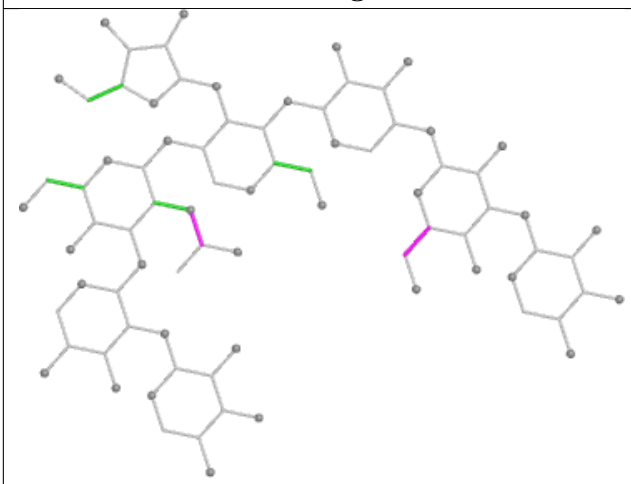

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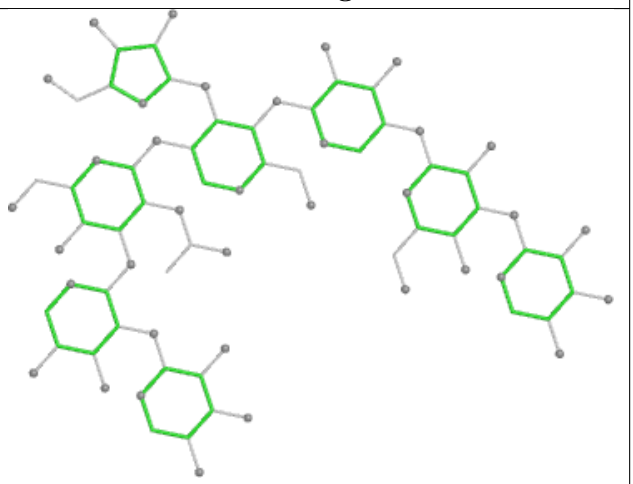
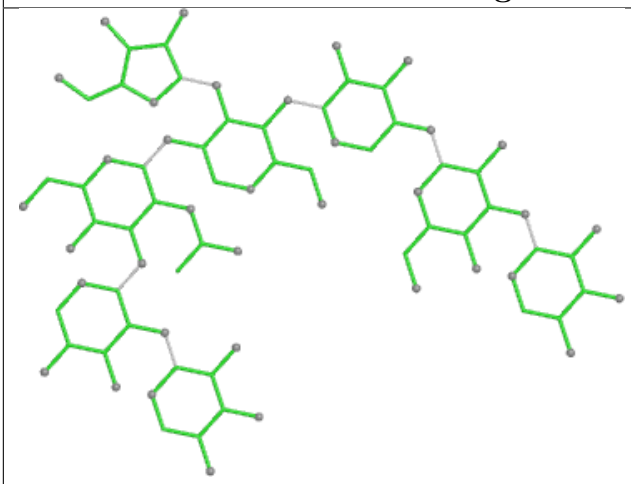


Rings

Oligosaccharide Chain O



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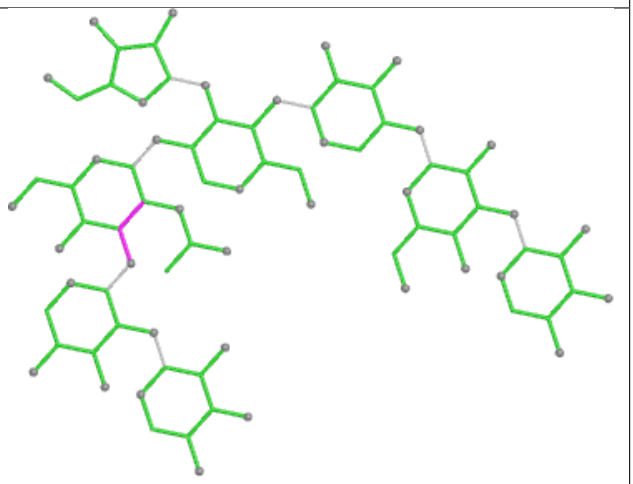

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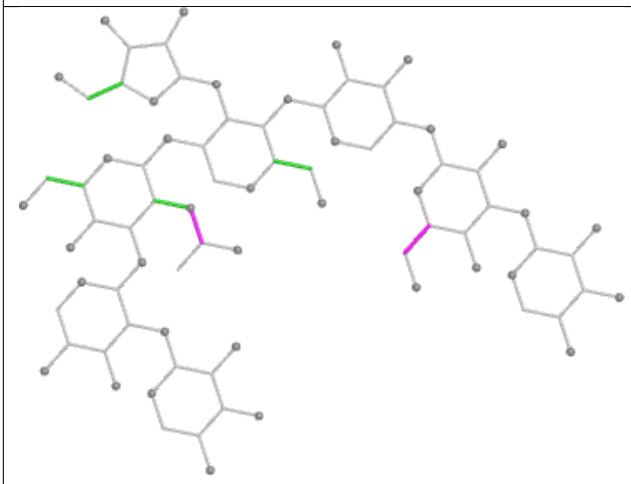

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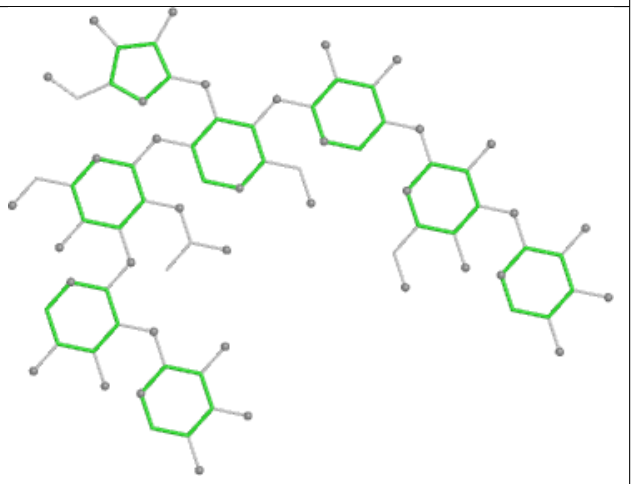
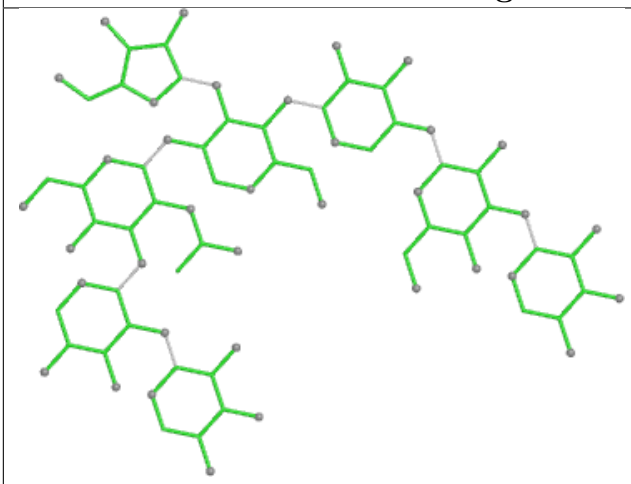


Rings

Oligosaccharide Chain P



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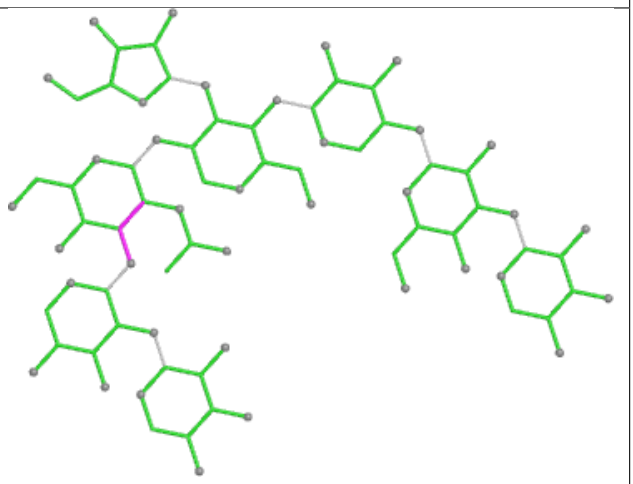

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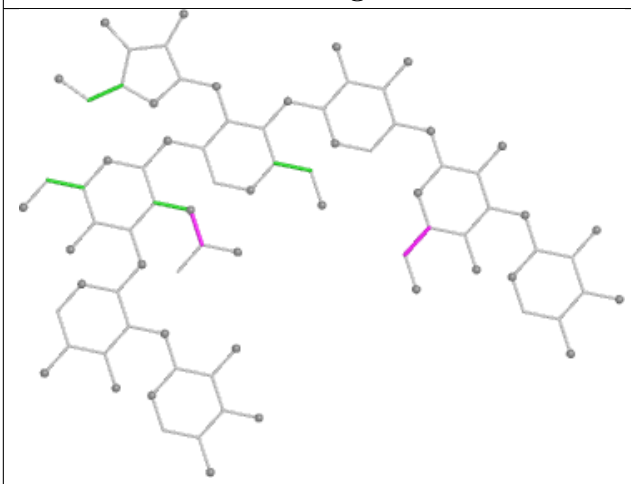

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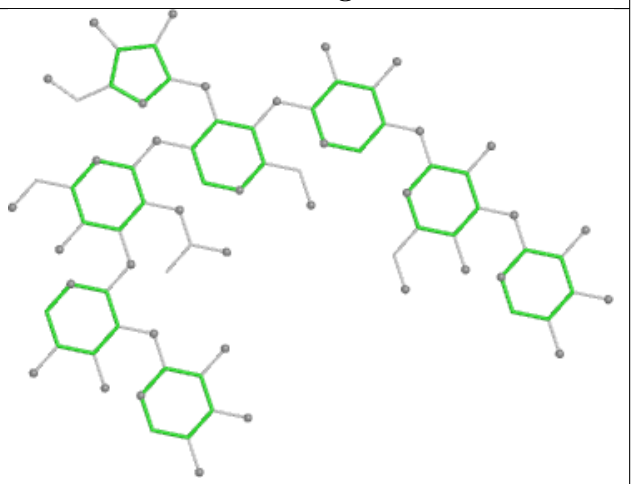
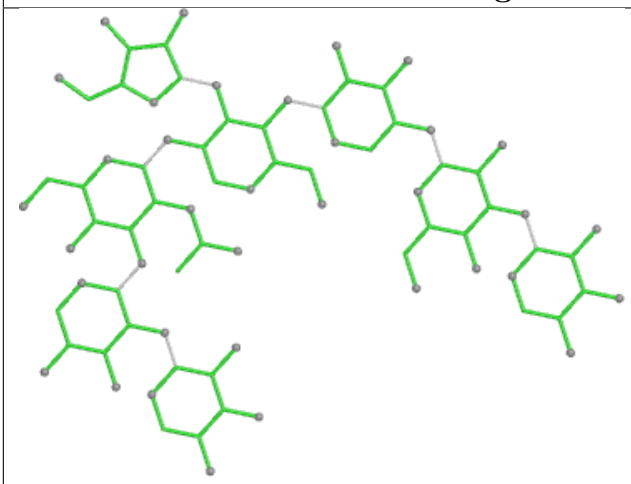


Rings

Oligosaccharide Chain Q



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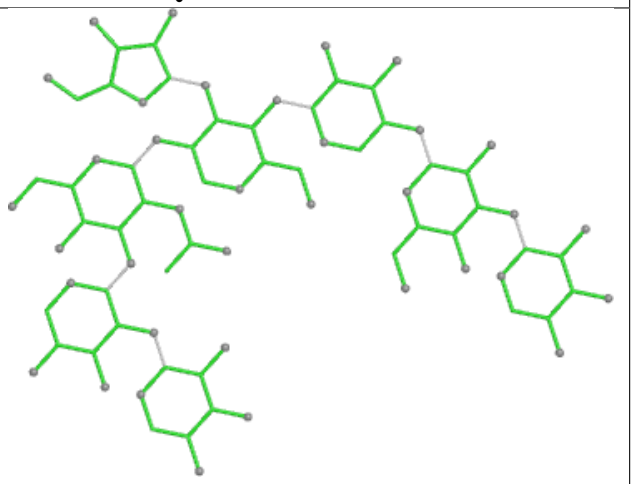

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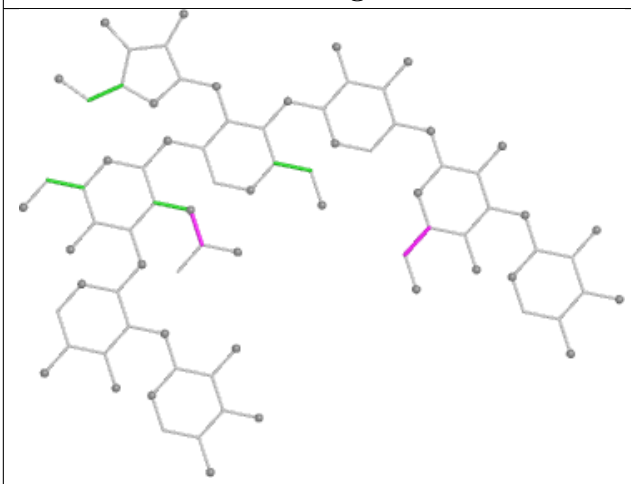

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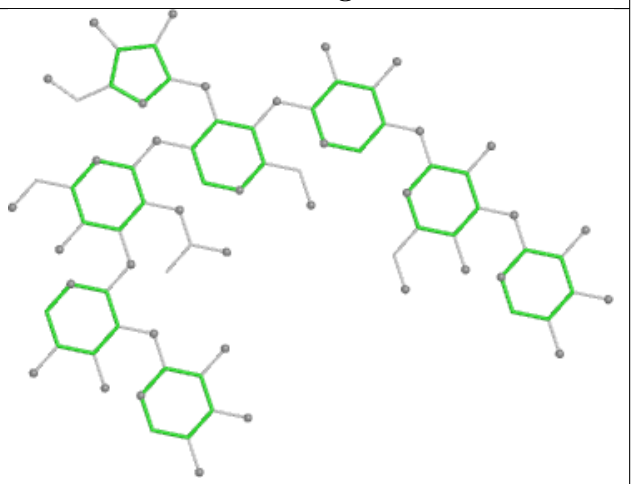
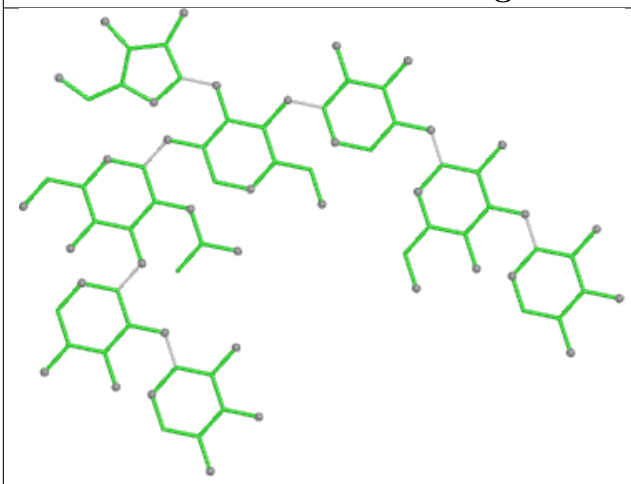


Rings

Oligosaccharide Chain R



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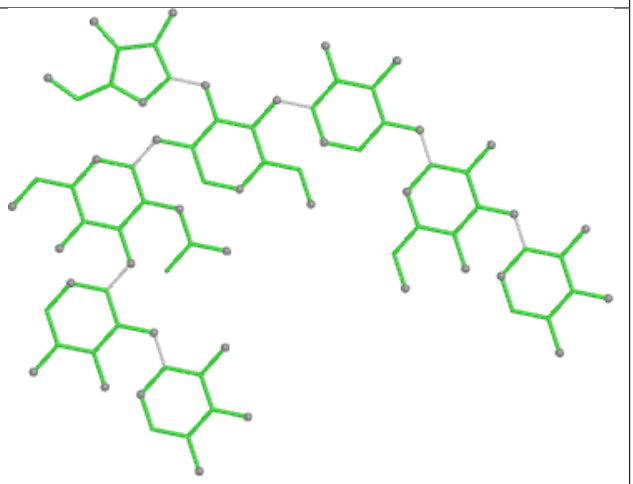

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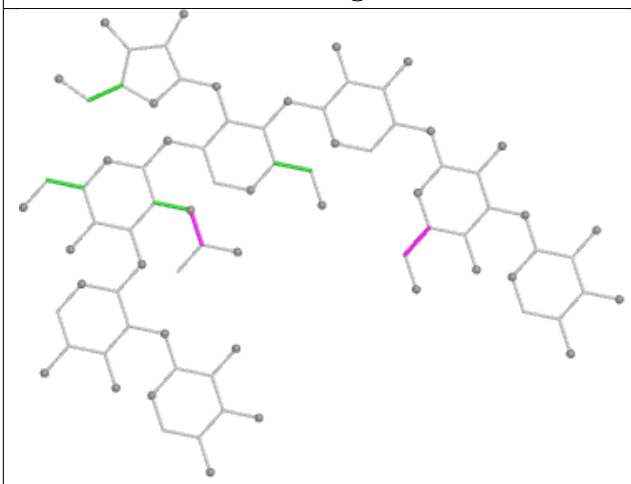

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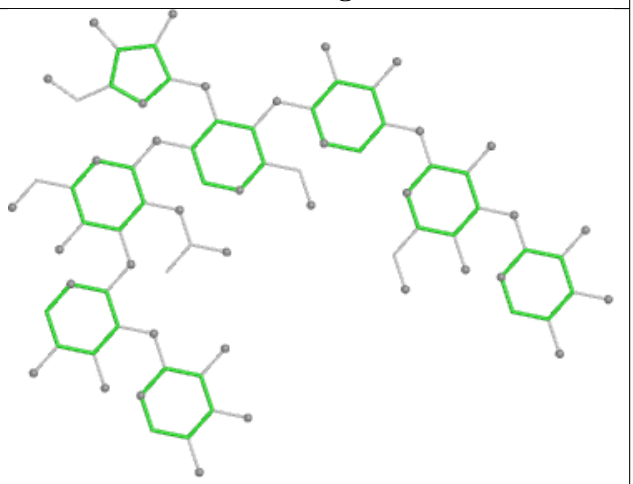
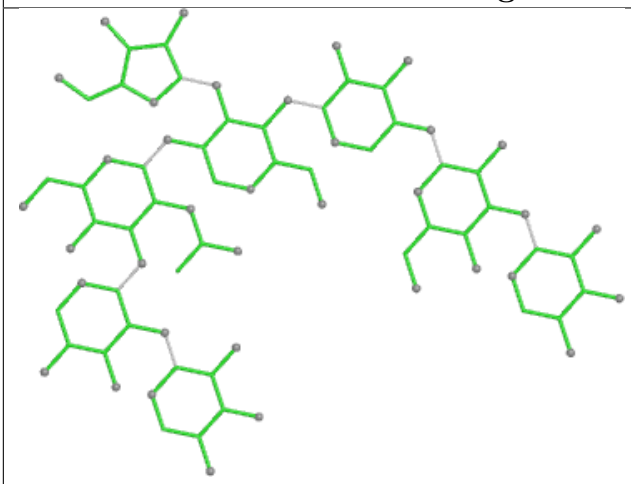


Rings

Oligosaccharide Chain S



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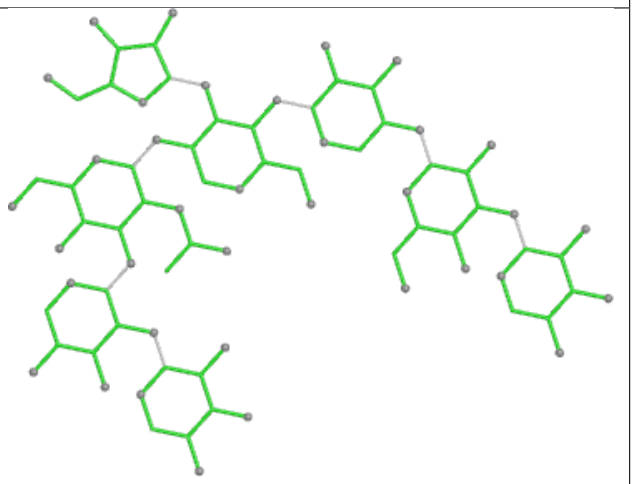
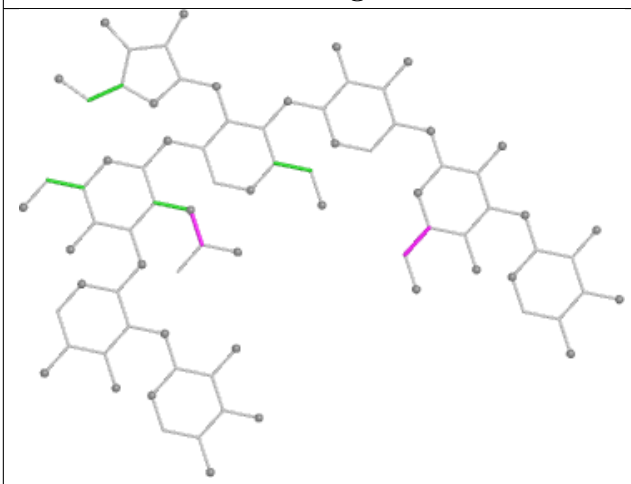


Bond angles



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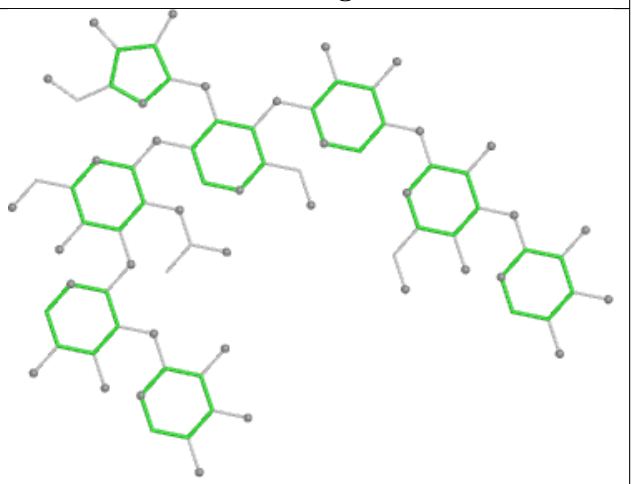
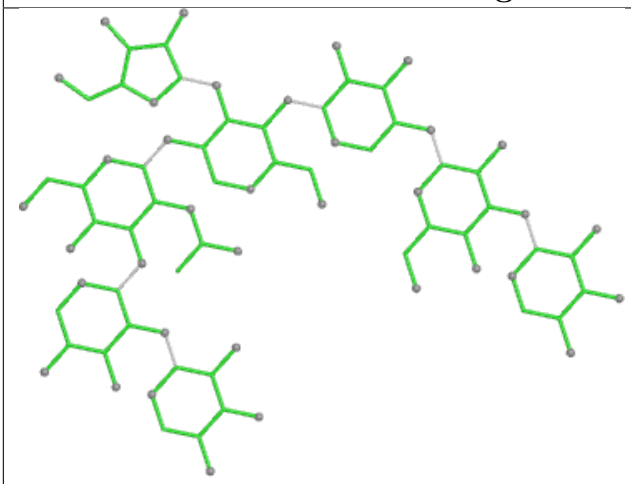


Rings

Oligosaccharide Chain T



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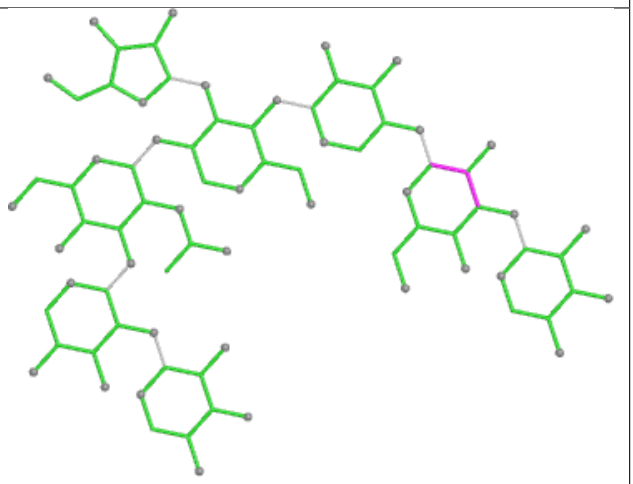
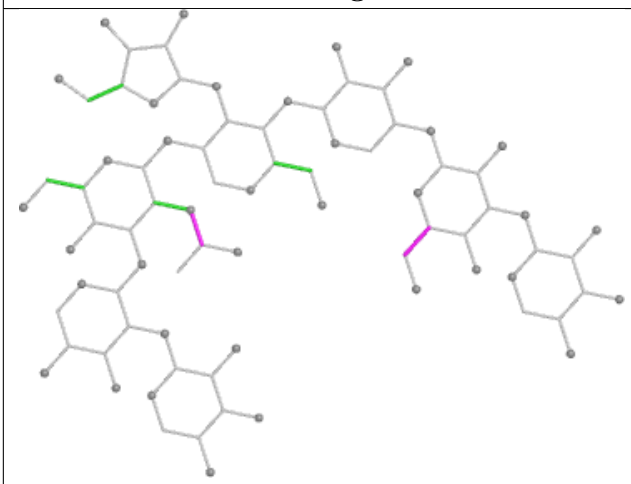


Bond angles



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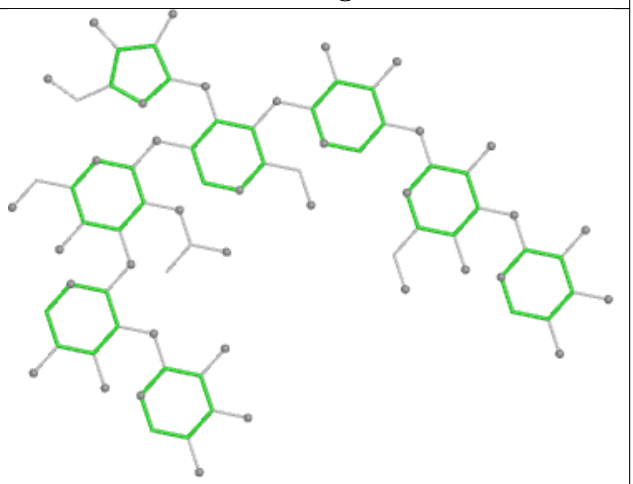
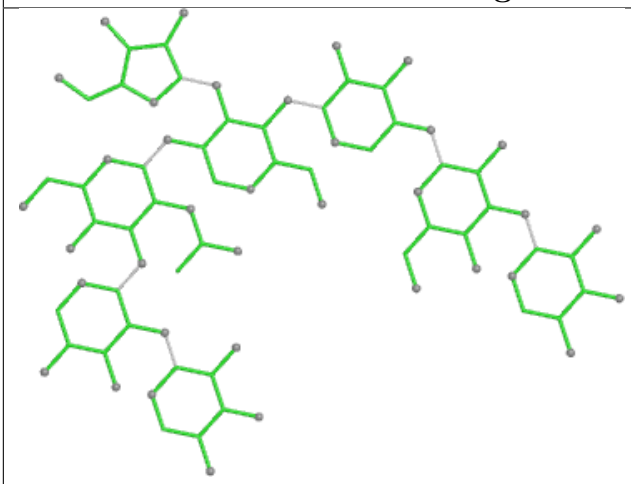


Rings

Oligosaccharide Chain U



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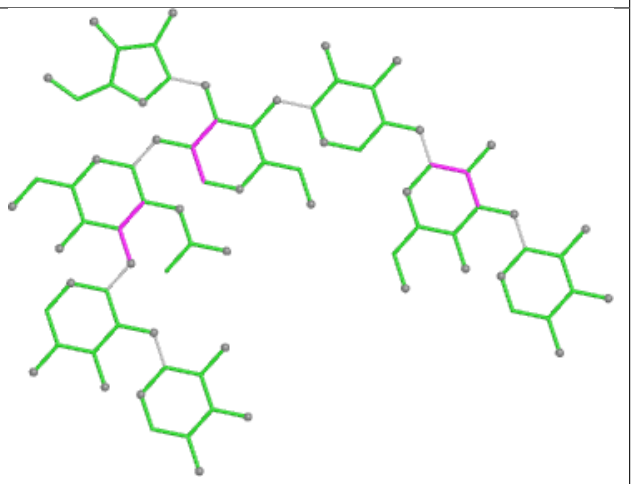
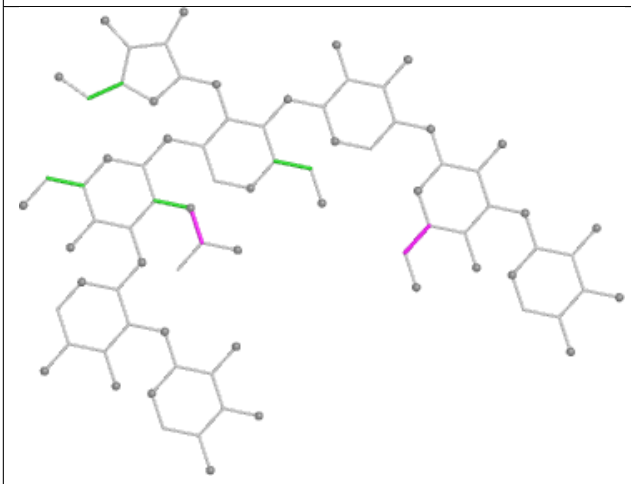


Bond angles



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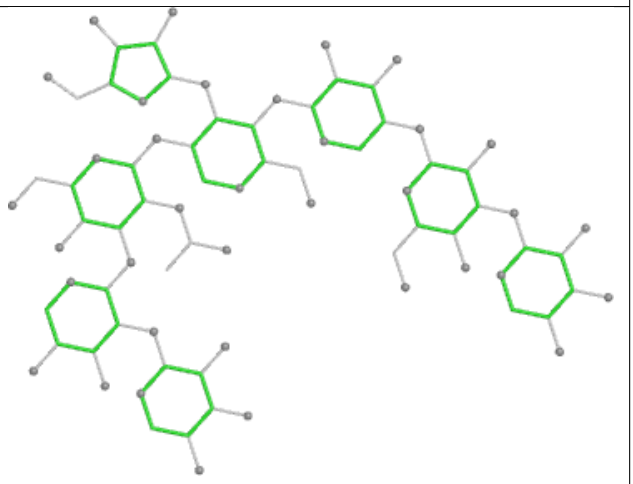
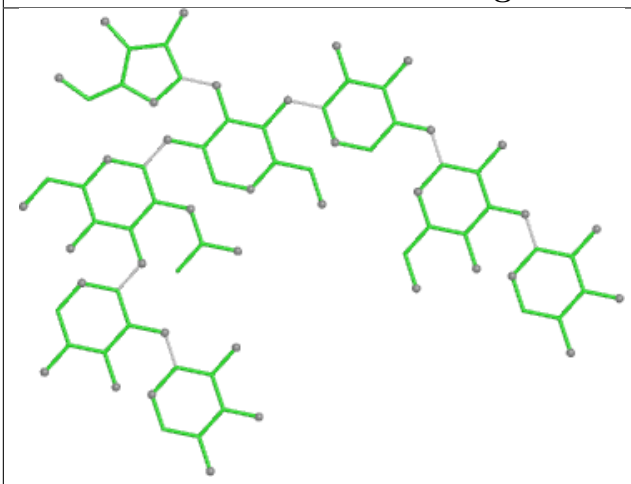


Rings

Oligosaccharide Chain V



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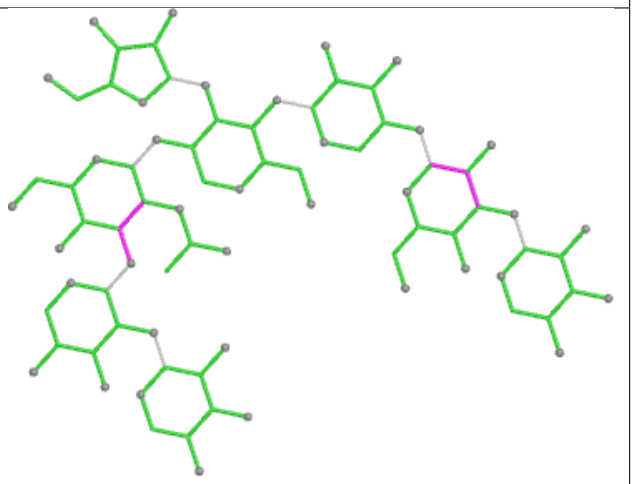
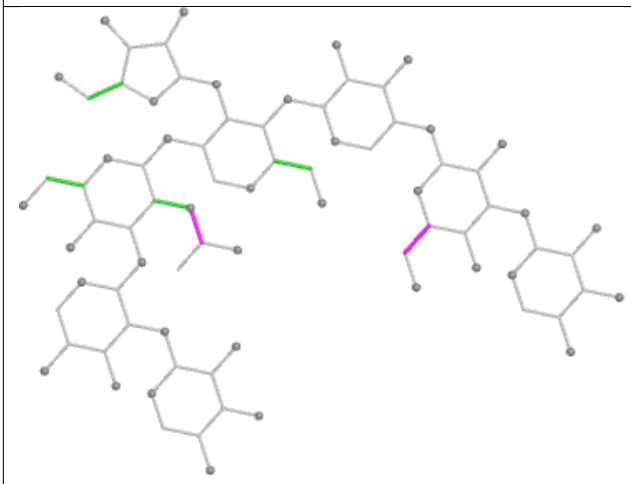
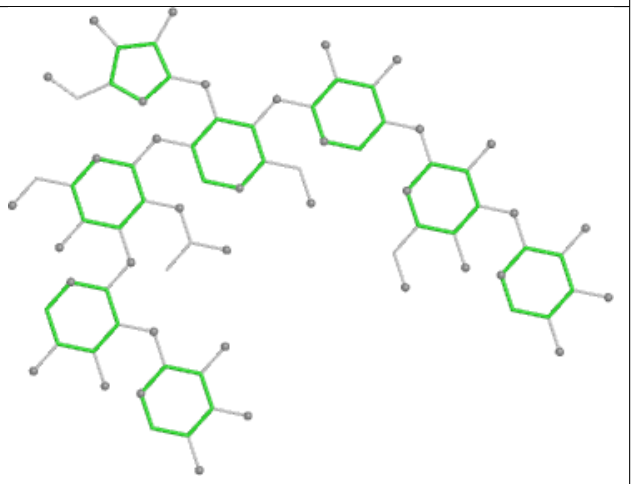


Bond angles

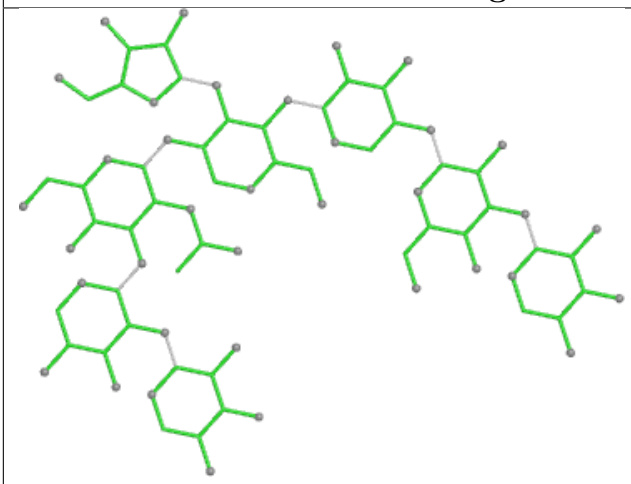


Torsions

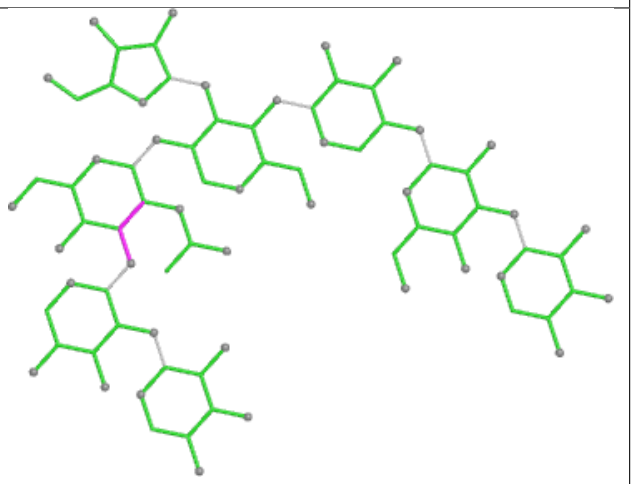


Rings

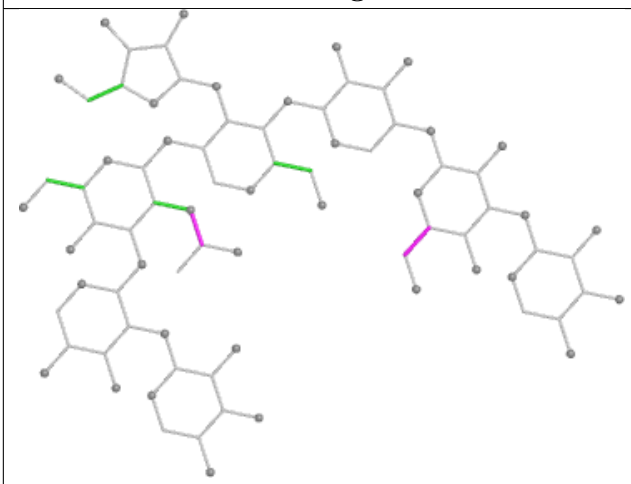
Oligosaccharide Chain W



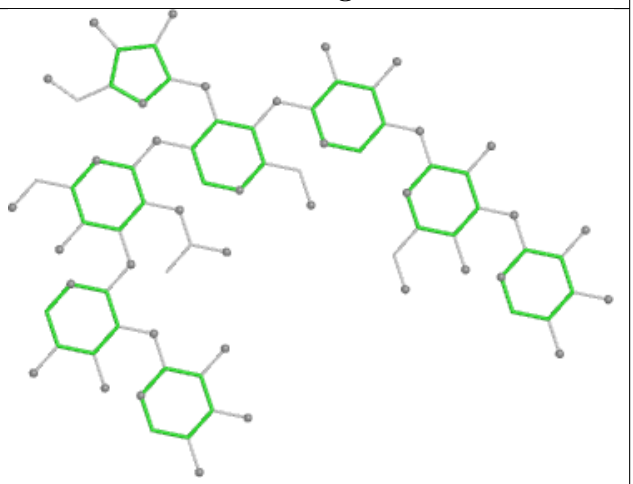
Bond lengths



Bond angles

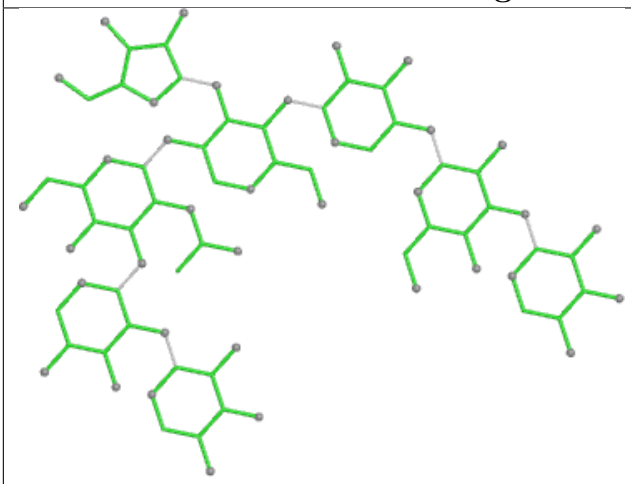


Torsions

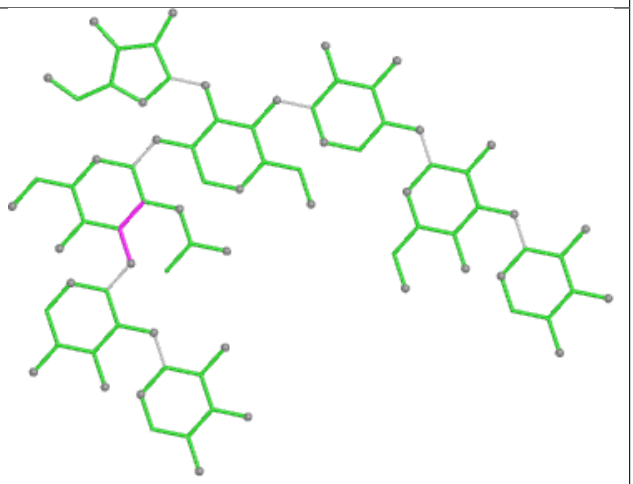


Rings

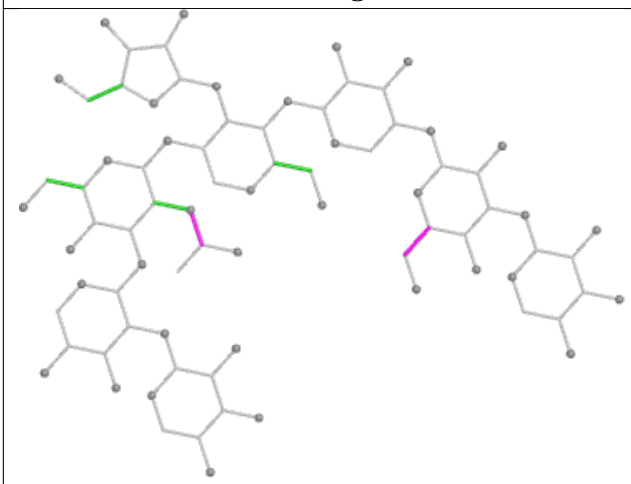
Oligosaccharide Chain X



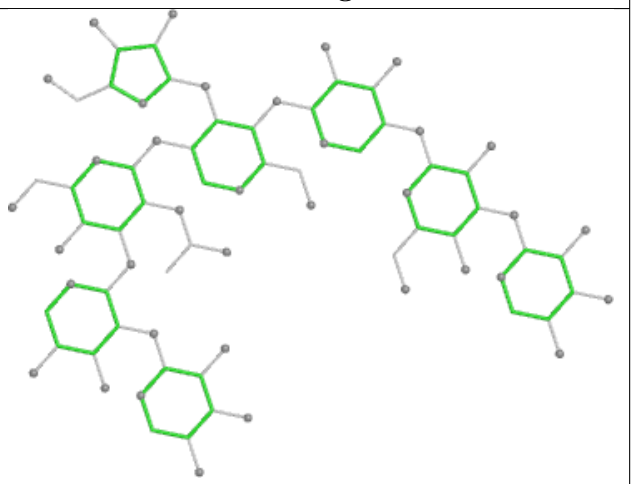
Bond lengths



Bond angles

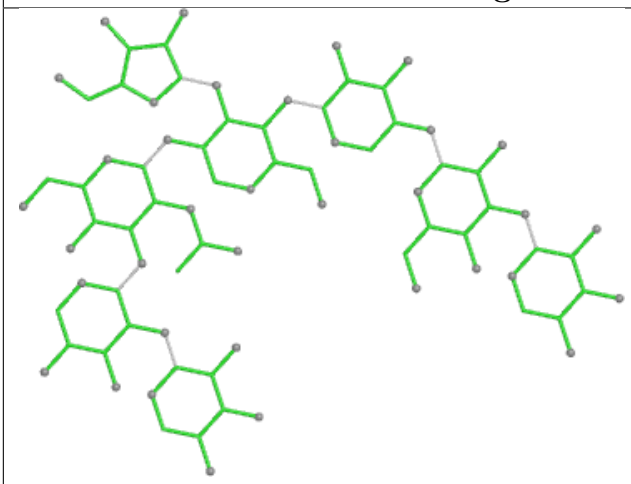


Torsions

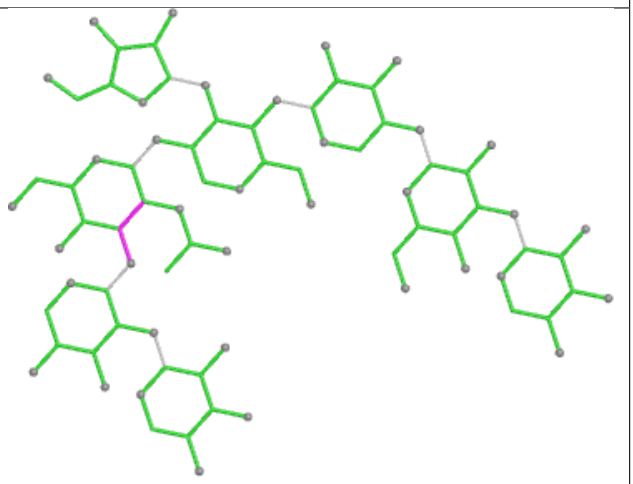


Rings

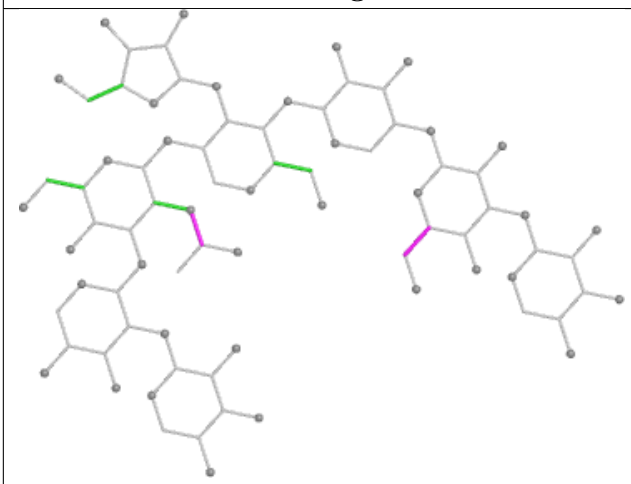
Oligosaccharide Chain Y



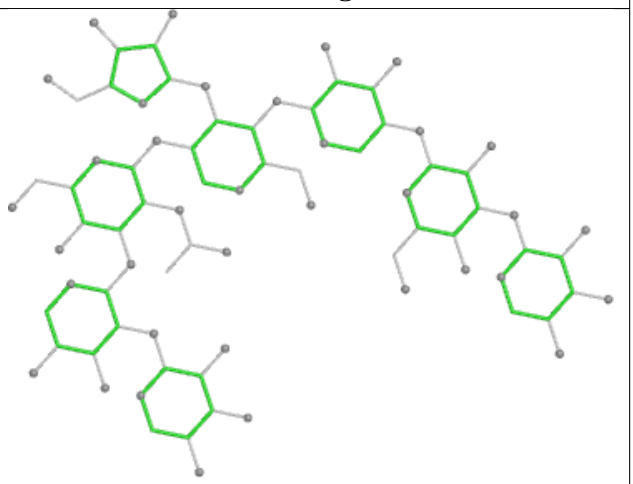
Bond lengths



Bond angles

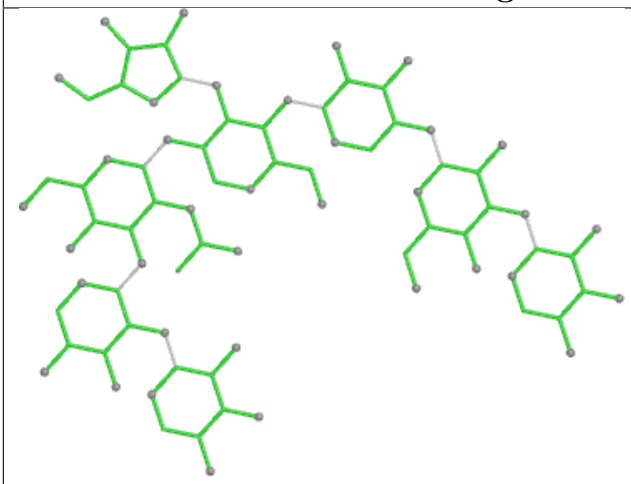


Torsions

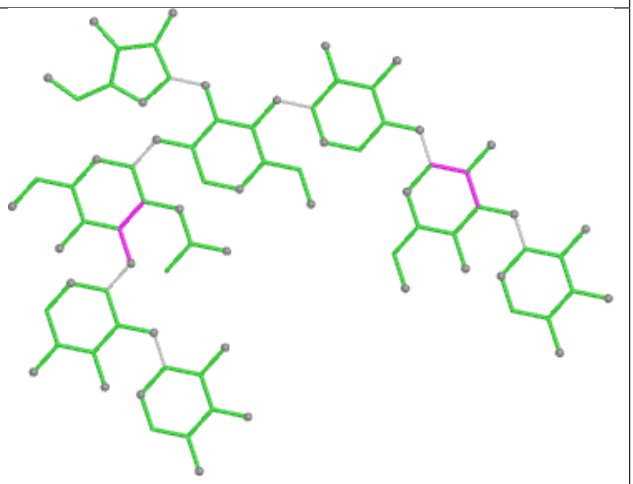


Rings

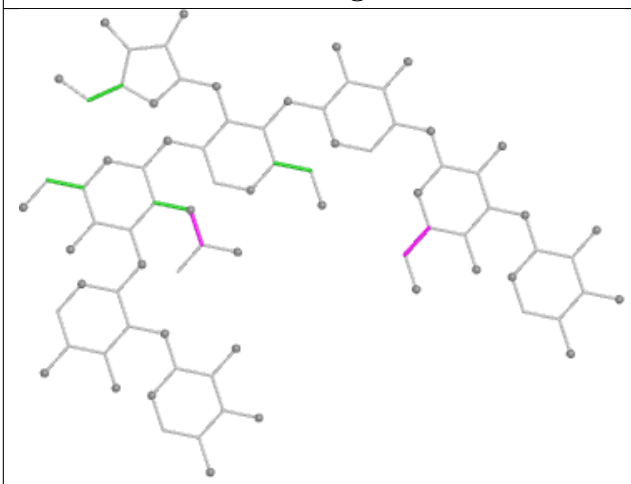
Oligosaccharide Chain Z



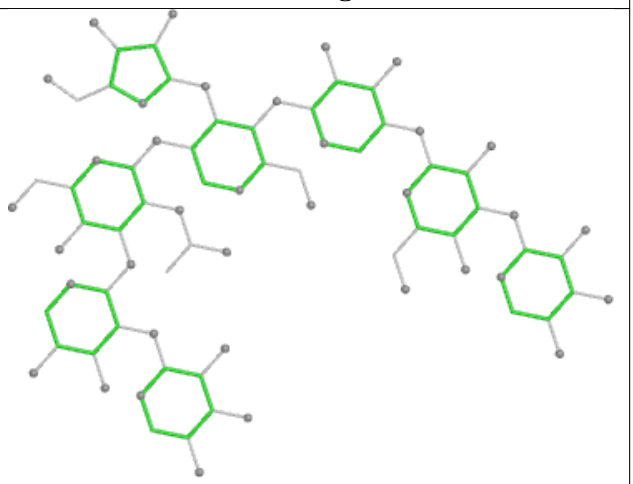
Bond lengths



Bond angles

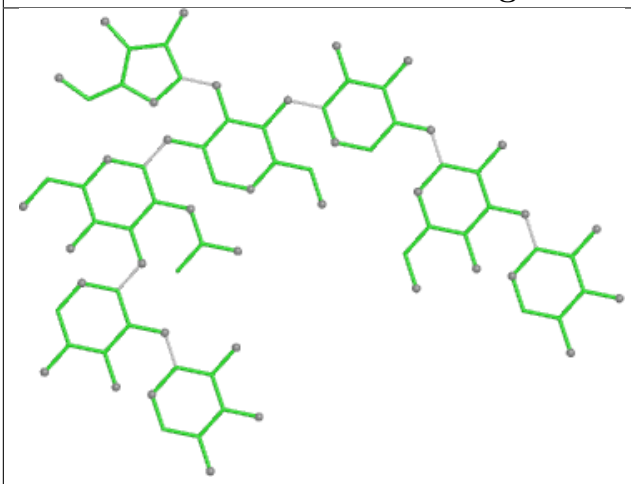


Torsions

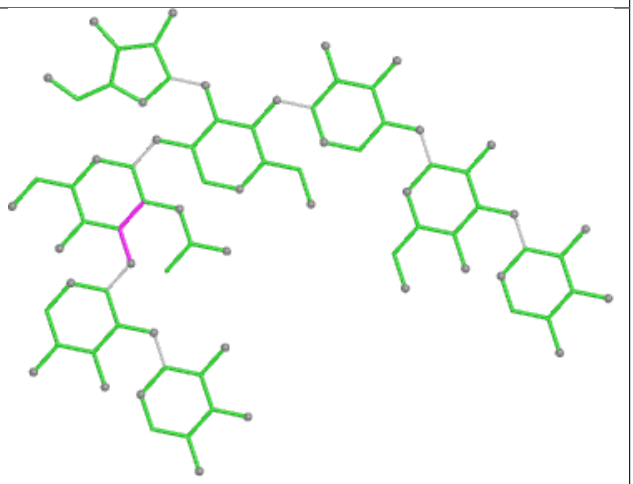


Rings

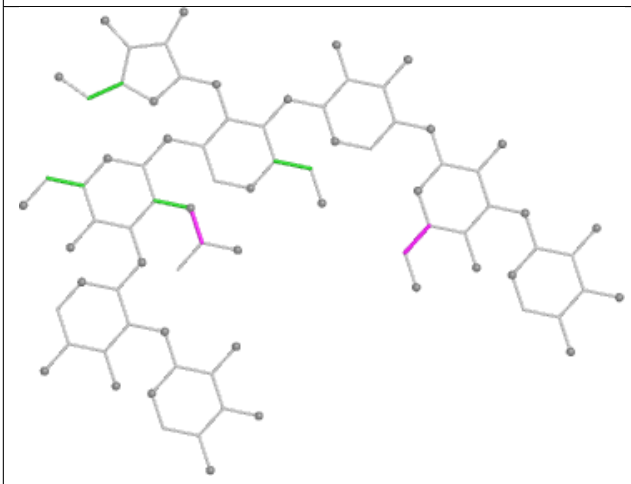
Oligosaccharide Chain a



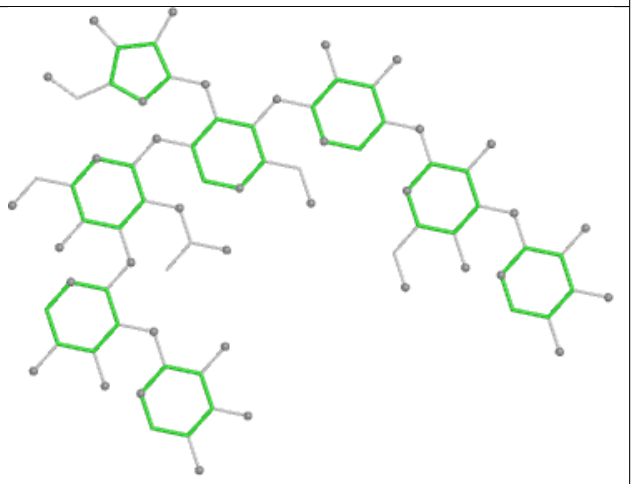
Bond lengths



Bond angles

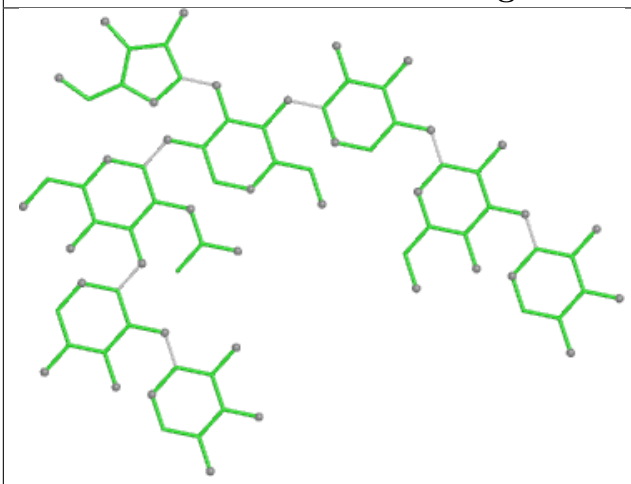


Torsions

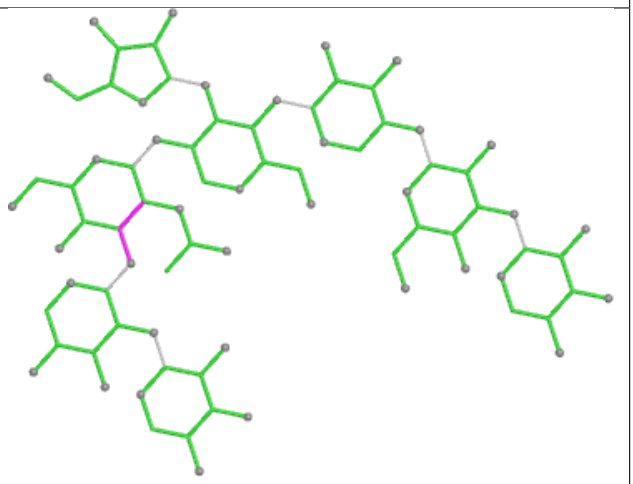


Rings

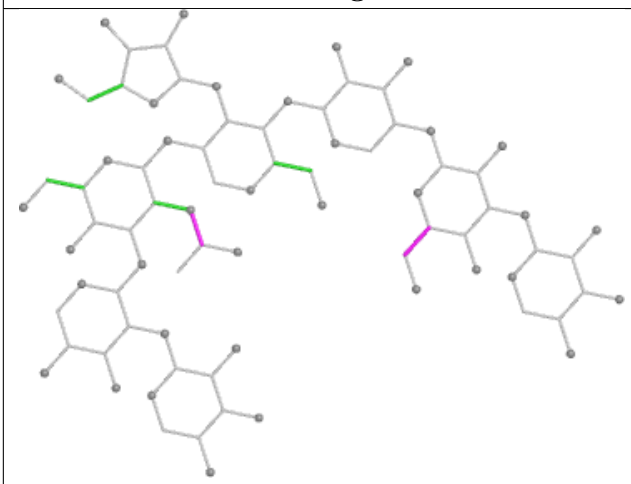
Oligosaccharide Chain b



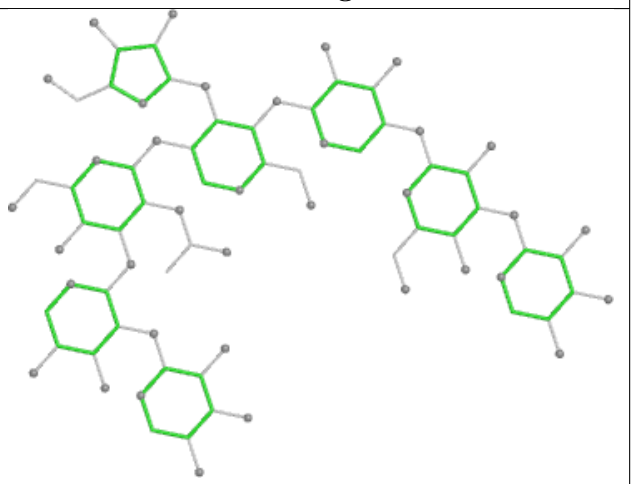
Bond lengths



Bond angles

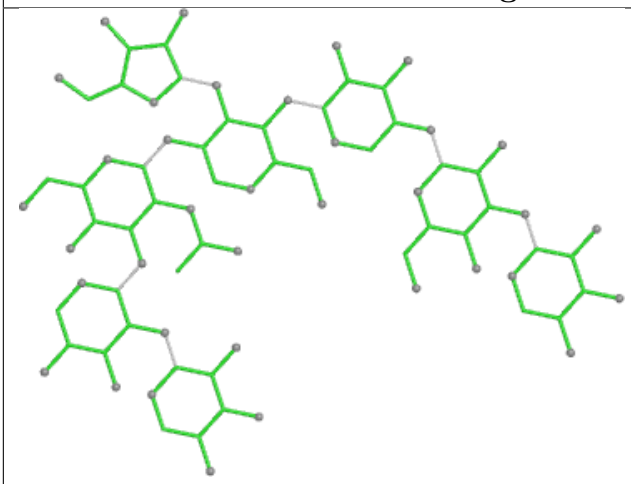


Torsions

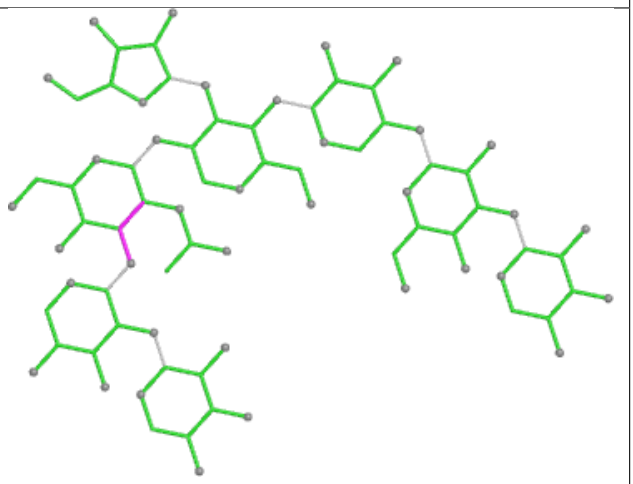


Rings

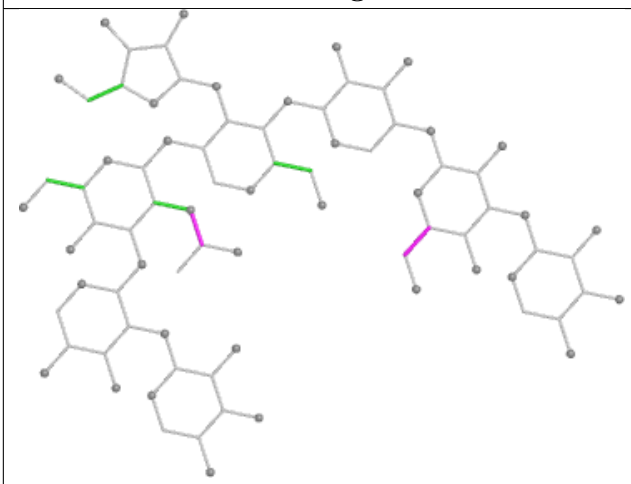
Oligosaccharide Chain c



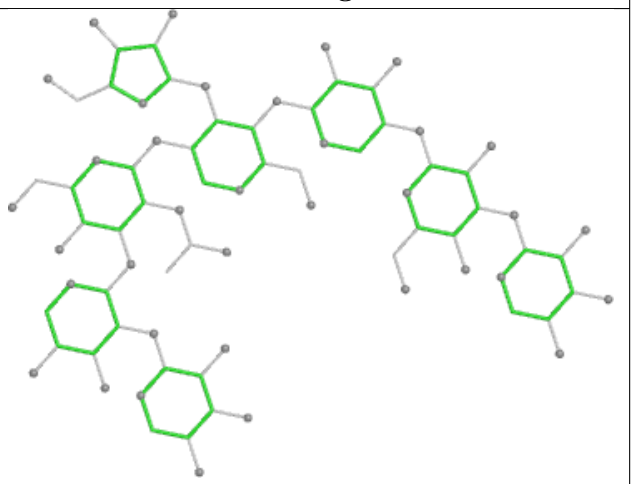
Bond lengths



Bond angles

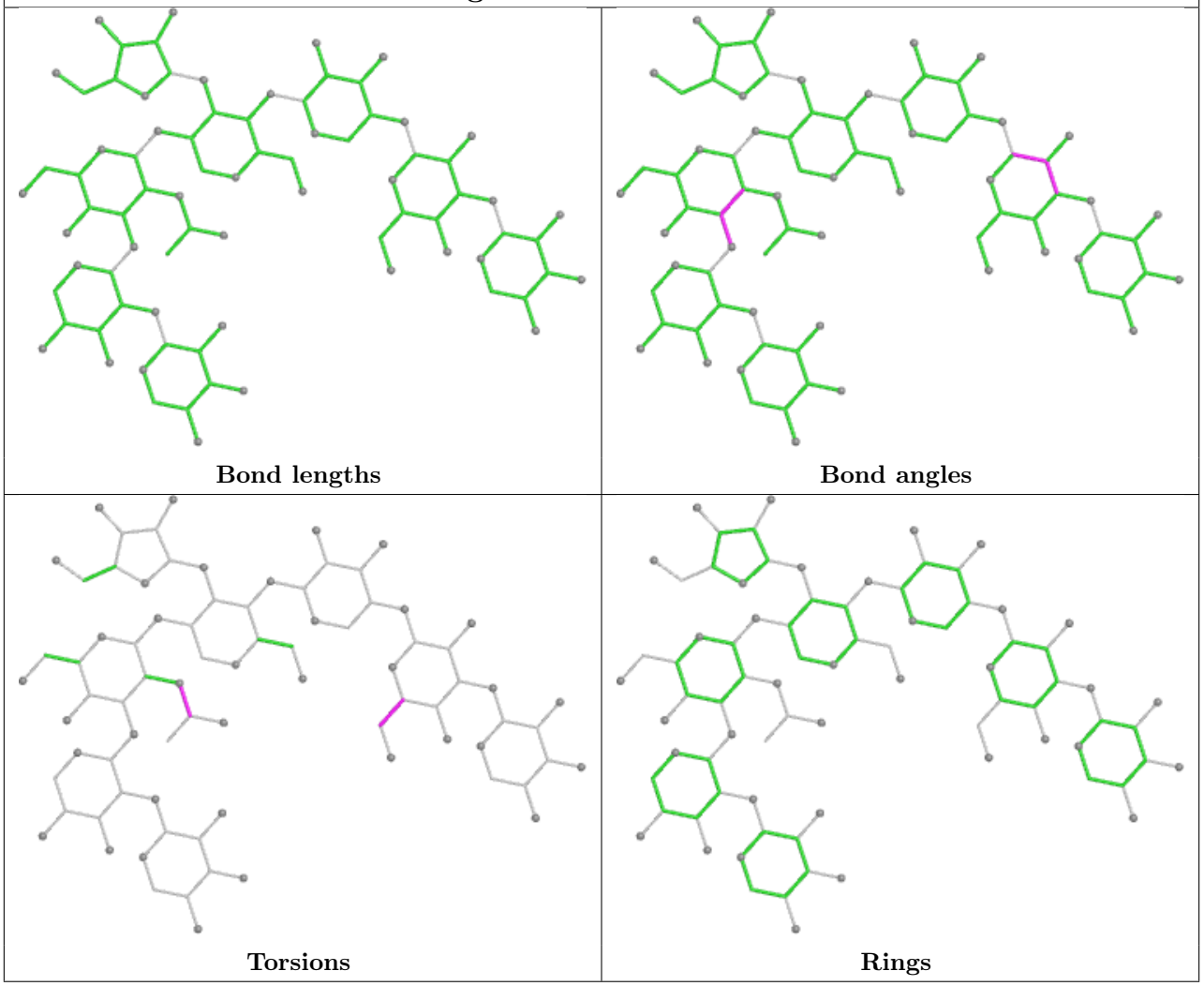


Torsions



Rings

Oligosaccharide Chain d



5.6 Ligand geometry (i)

There are no ligands in this entry.

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.

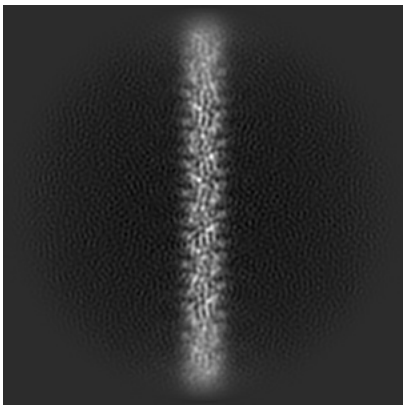
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-67850. These allow visual inspection of the internal detail of the map and identification of artifacts.

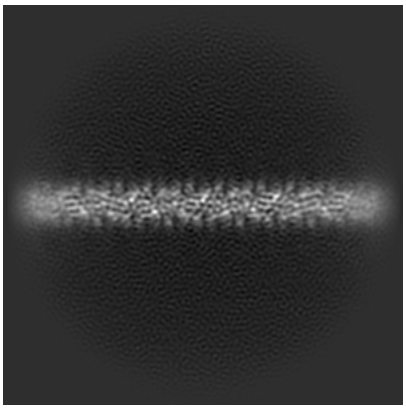
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

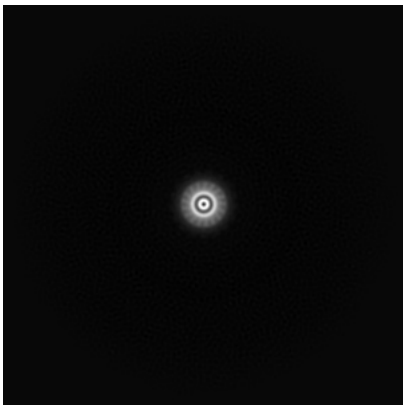
6.1.1 Primary map



X

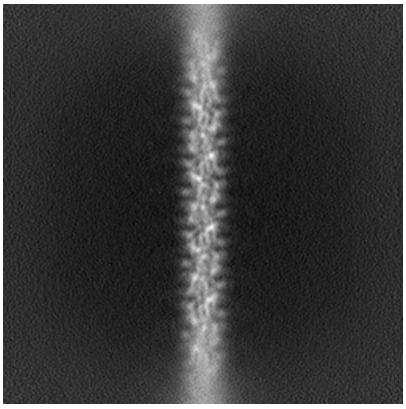


Y

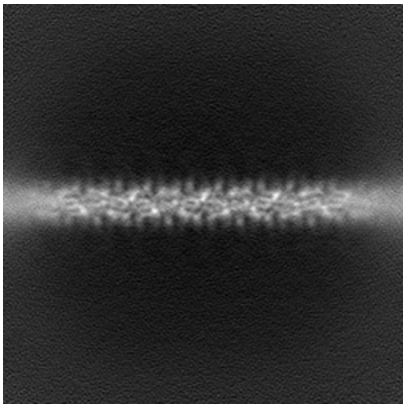


Z

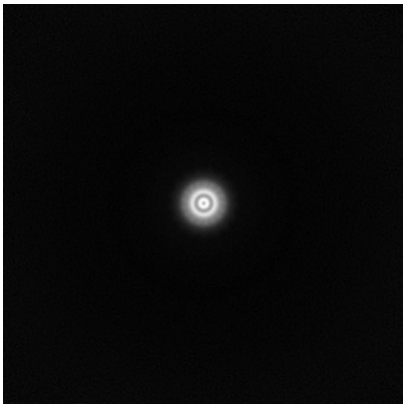
6.1.2 Raw map



X



Y

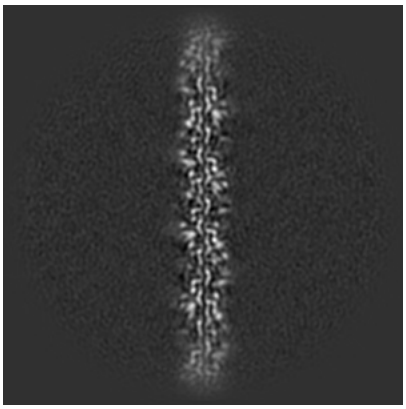


Z

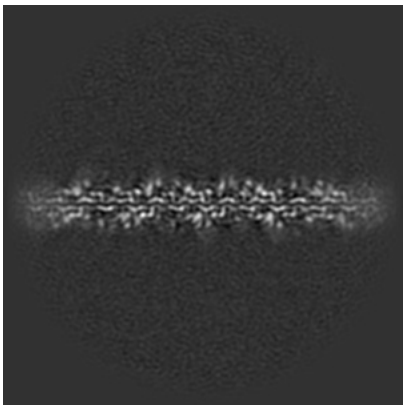
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

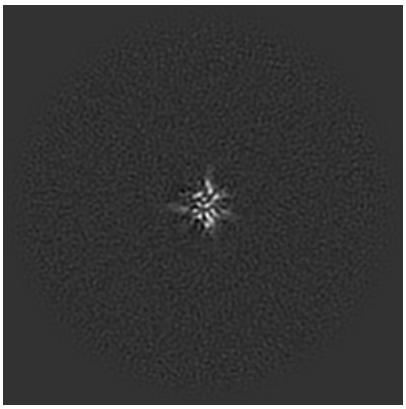
6.2.1 Primary map



X Index: 128

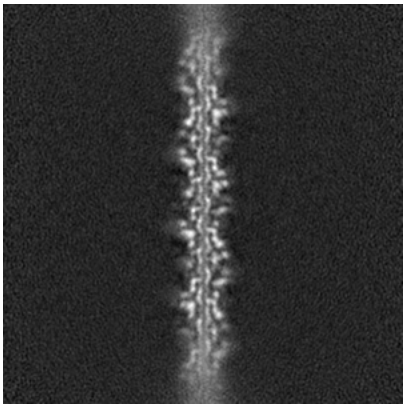


Y Index: 128

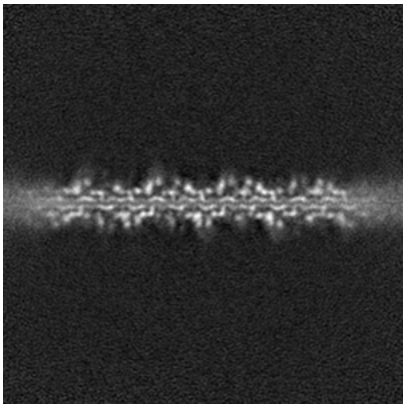


Z Index: 128

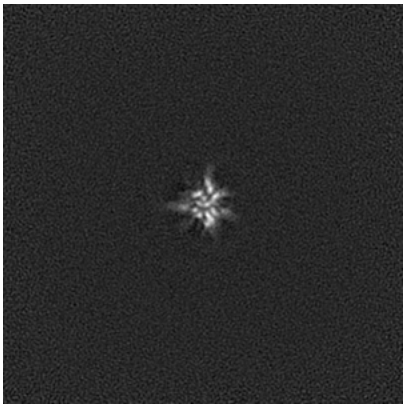
6.2.2 Raw map



X Index: 128



Y Index: 128

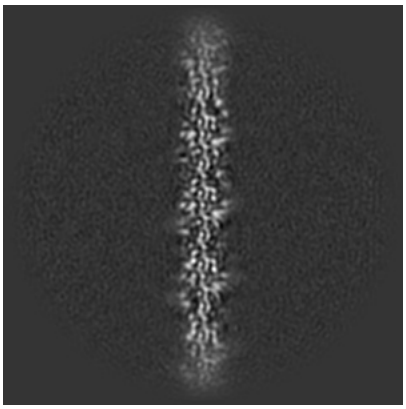


Z Index: 128

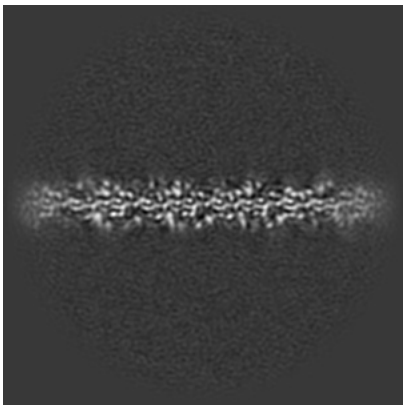
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

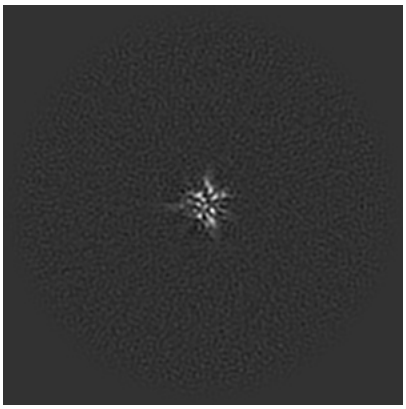
6.3.1 Primary map



X Index: 130

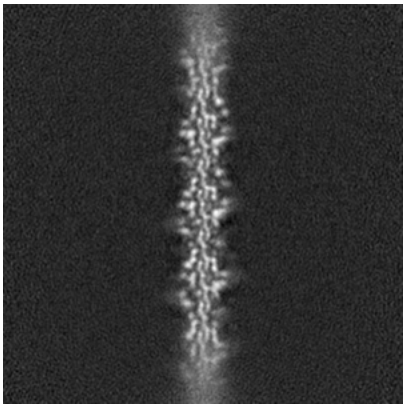


Y Index: 130

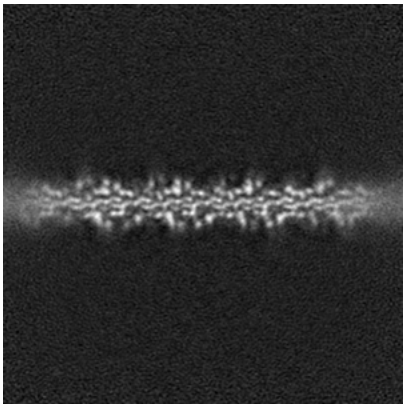


Z Index: 129

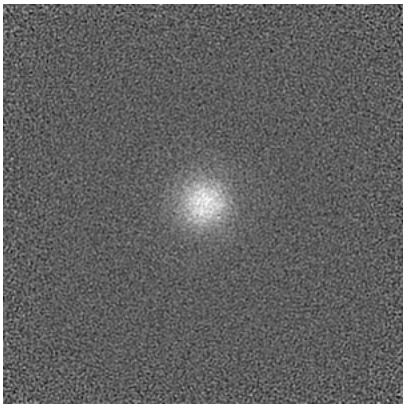
6.3.2 Raw map



X Index: 130



Y Index: 130

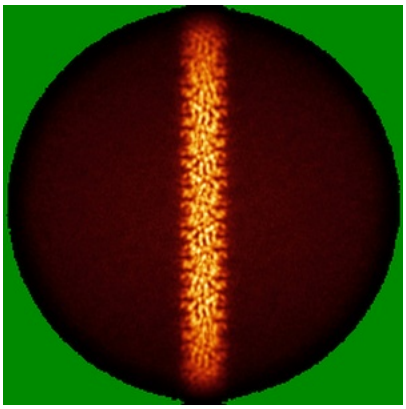


Z Index: 0

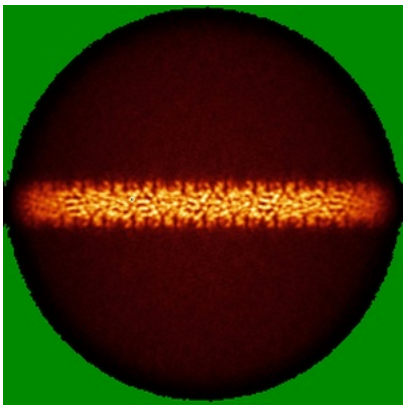
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

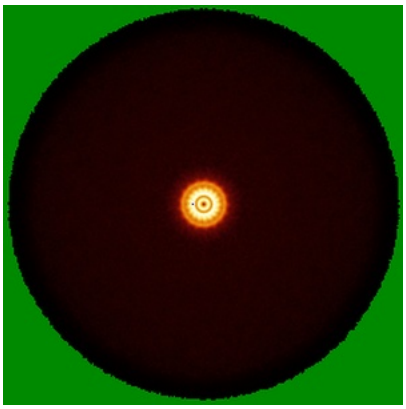
6.4.1 Primary map



X

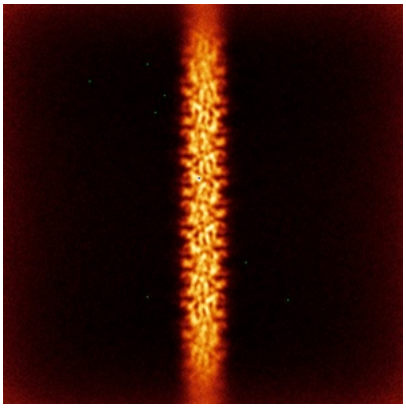


Y

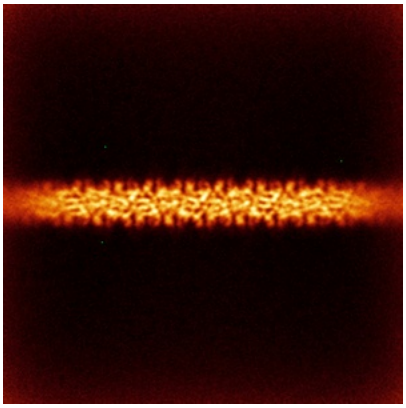


Z

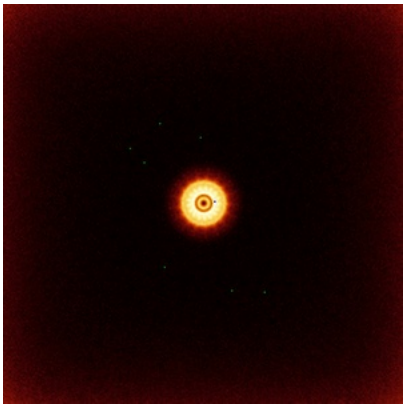
6.4.2 Raw map



X



Y

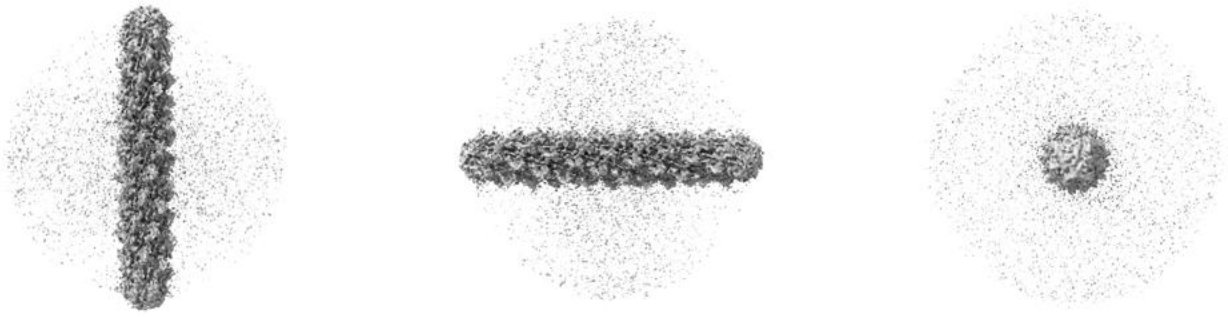


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

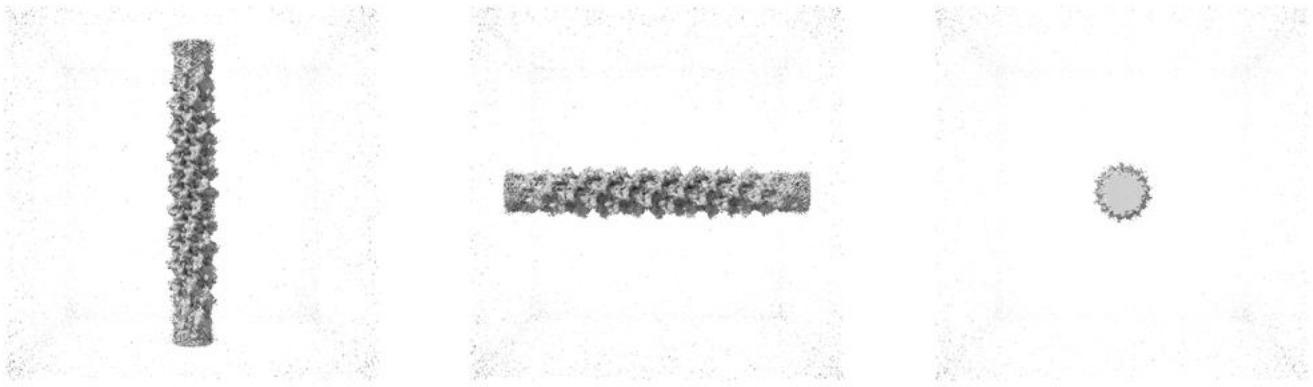
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.106. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

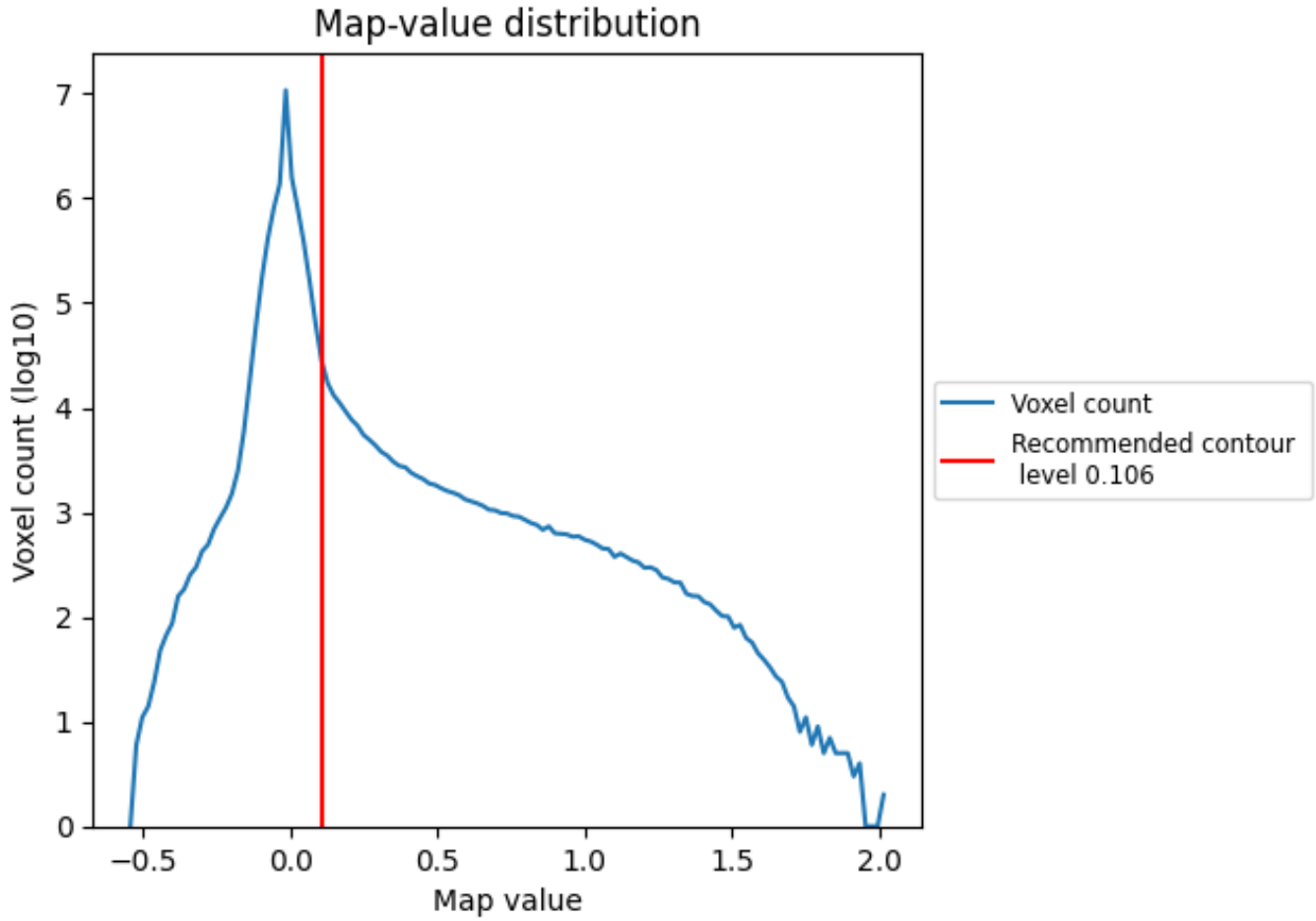
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

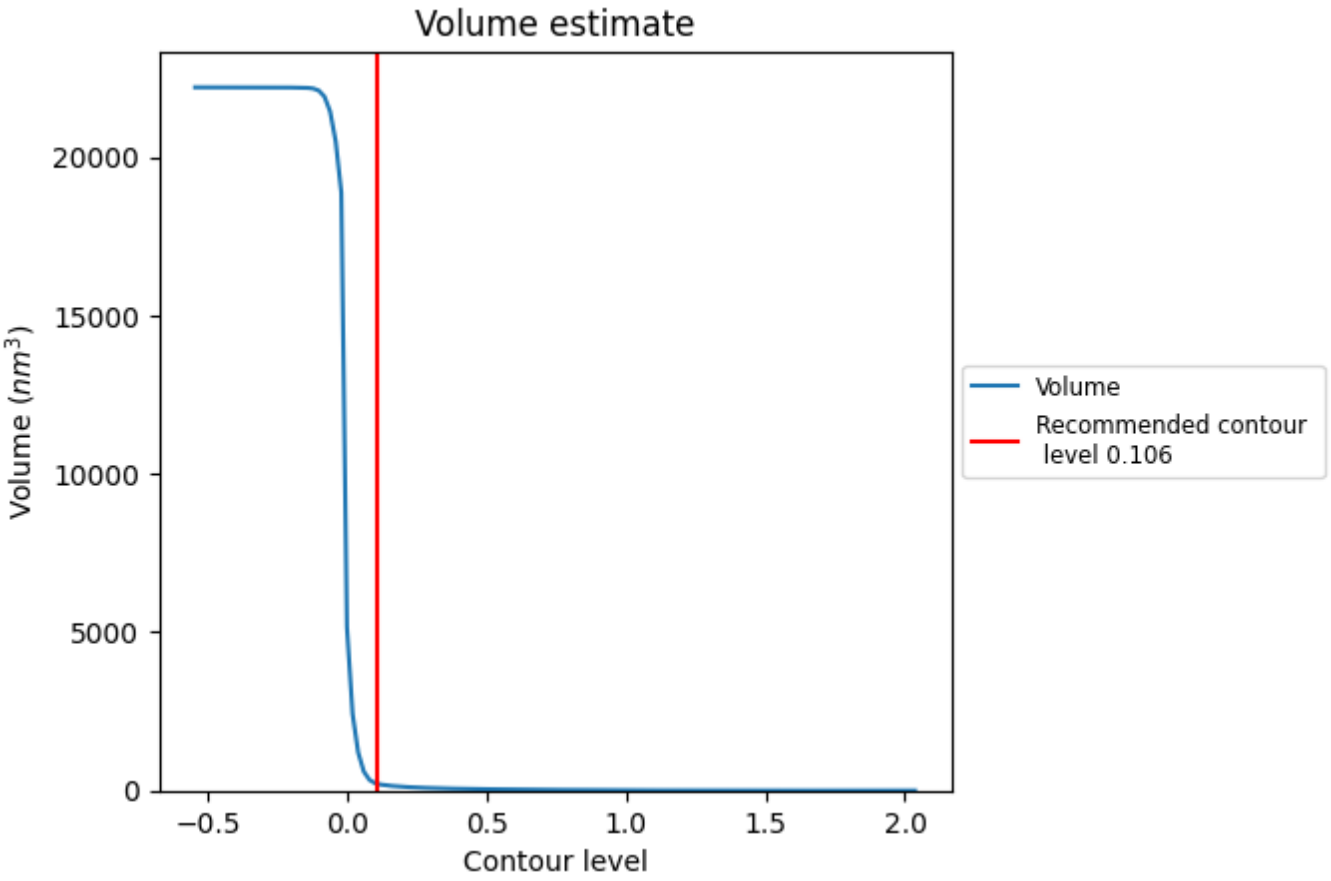
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

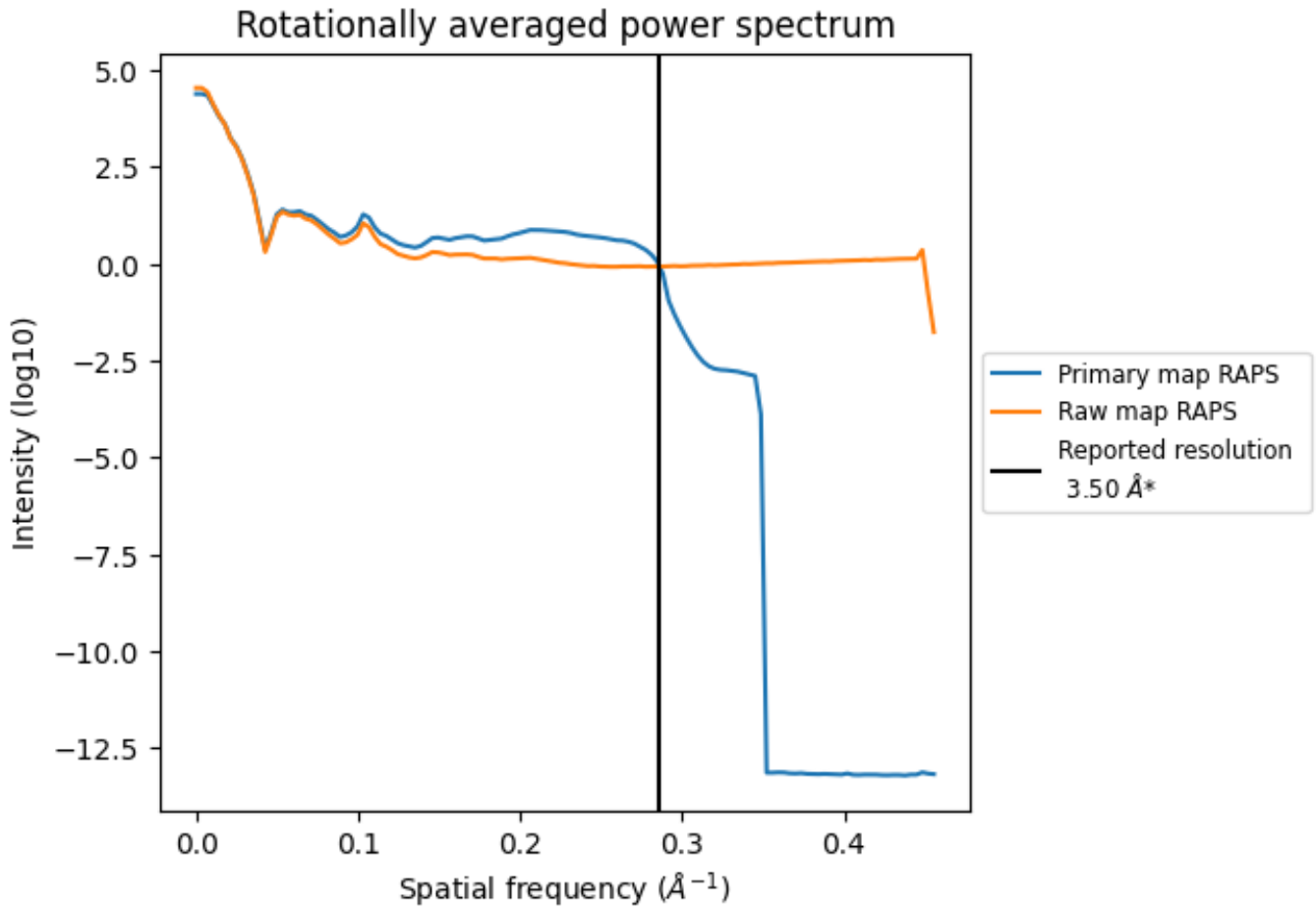
7.2 Volume estimate



The volume at the recommended contour level is 224 nm^3; this corresponds to an approximate mass of 202 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

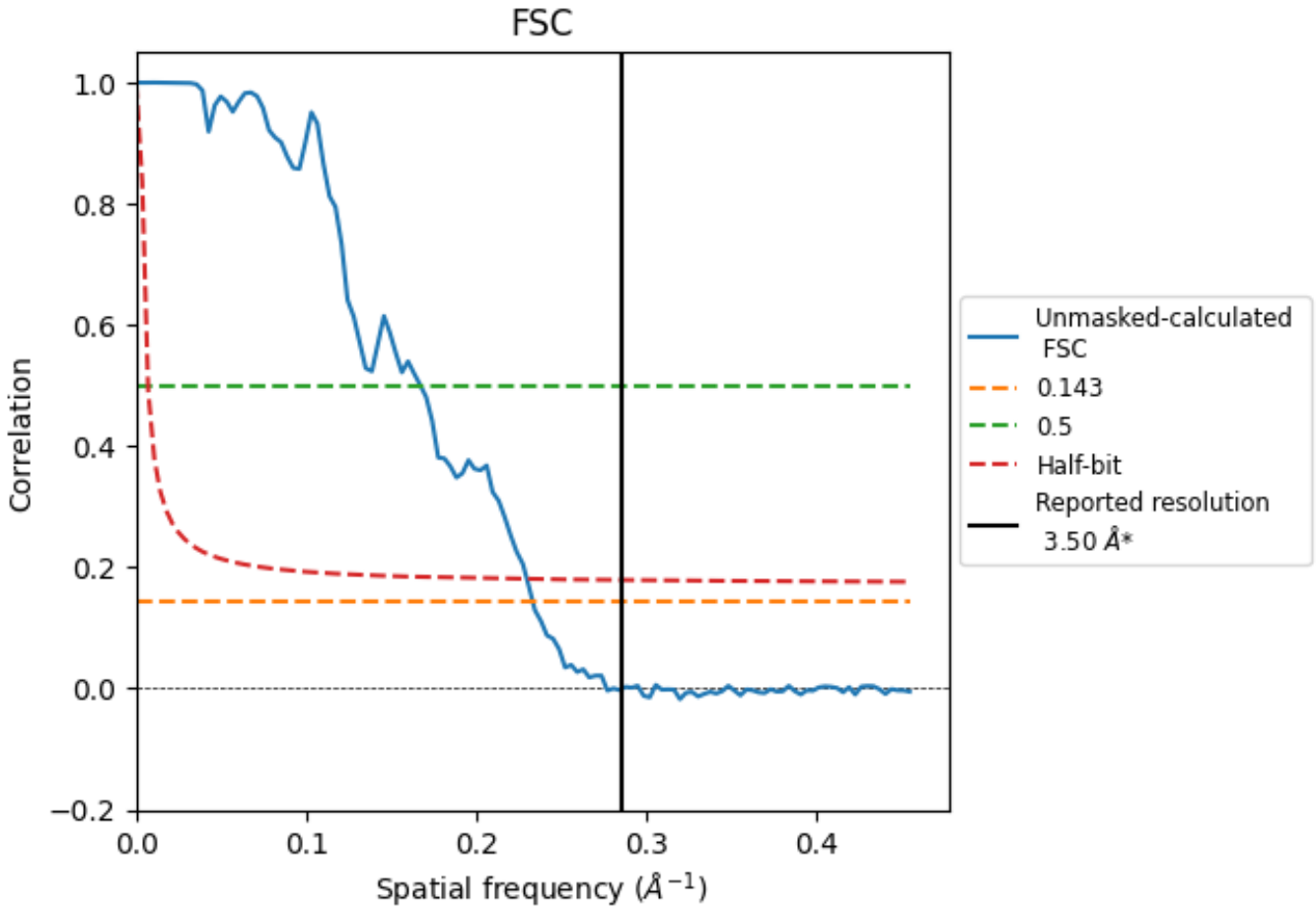


*Reported resolution corresponds to spatial frequency of 0.286 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.286 Å^{-1}

8.2 Resolution estimates (i)

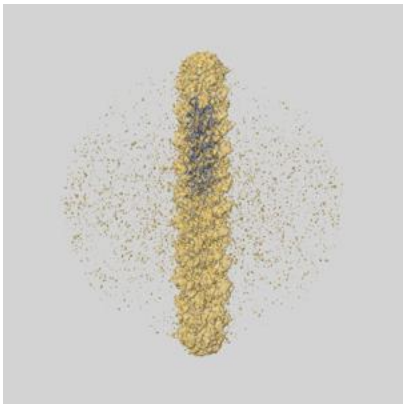
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.50	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.28	5.97	4.35

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.28 differs from the reported value 3.5 by more than 10 %

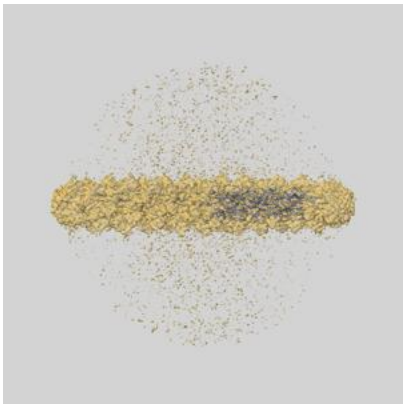
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-67850 and PDB model 21NT. Per-residue inclusion information can be found in section 3 on page 7.

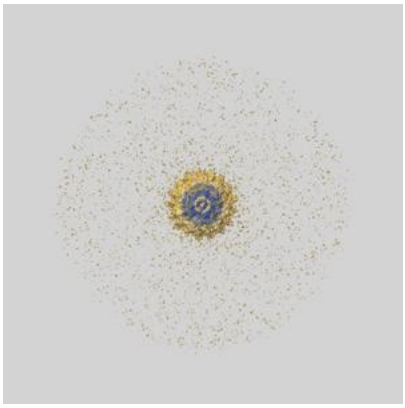
9.1 Map-model overlay



X



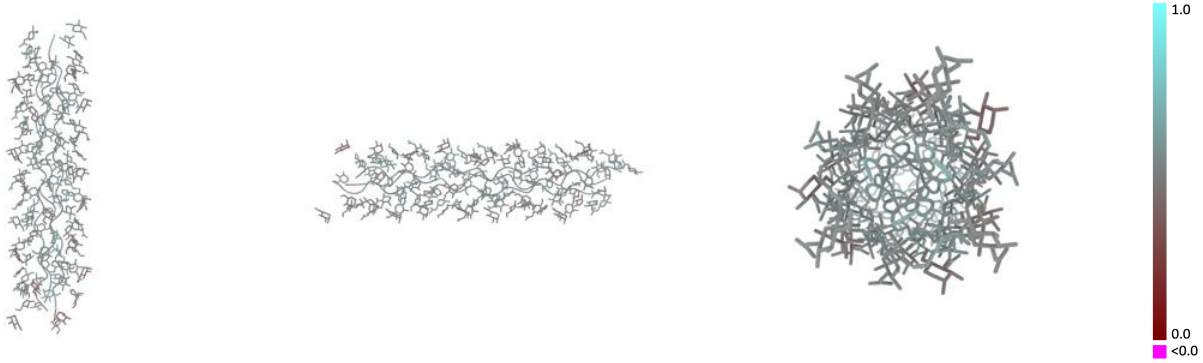
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.106 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

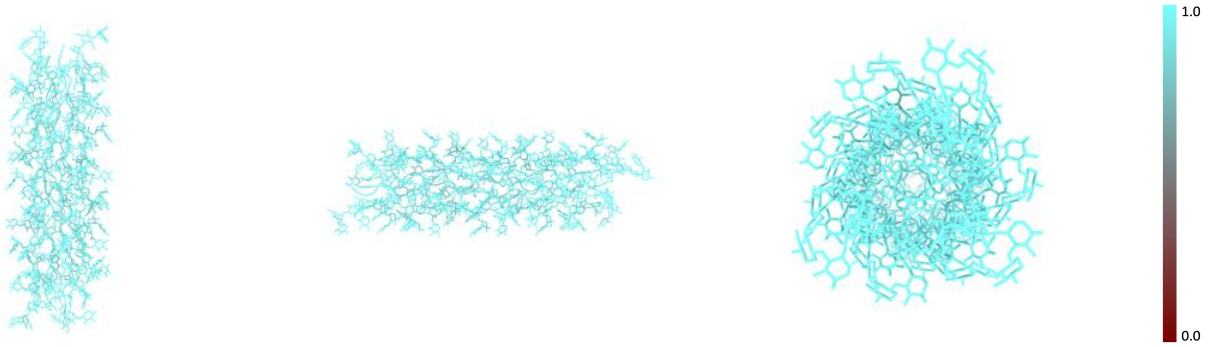
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

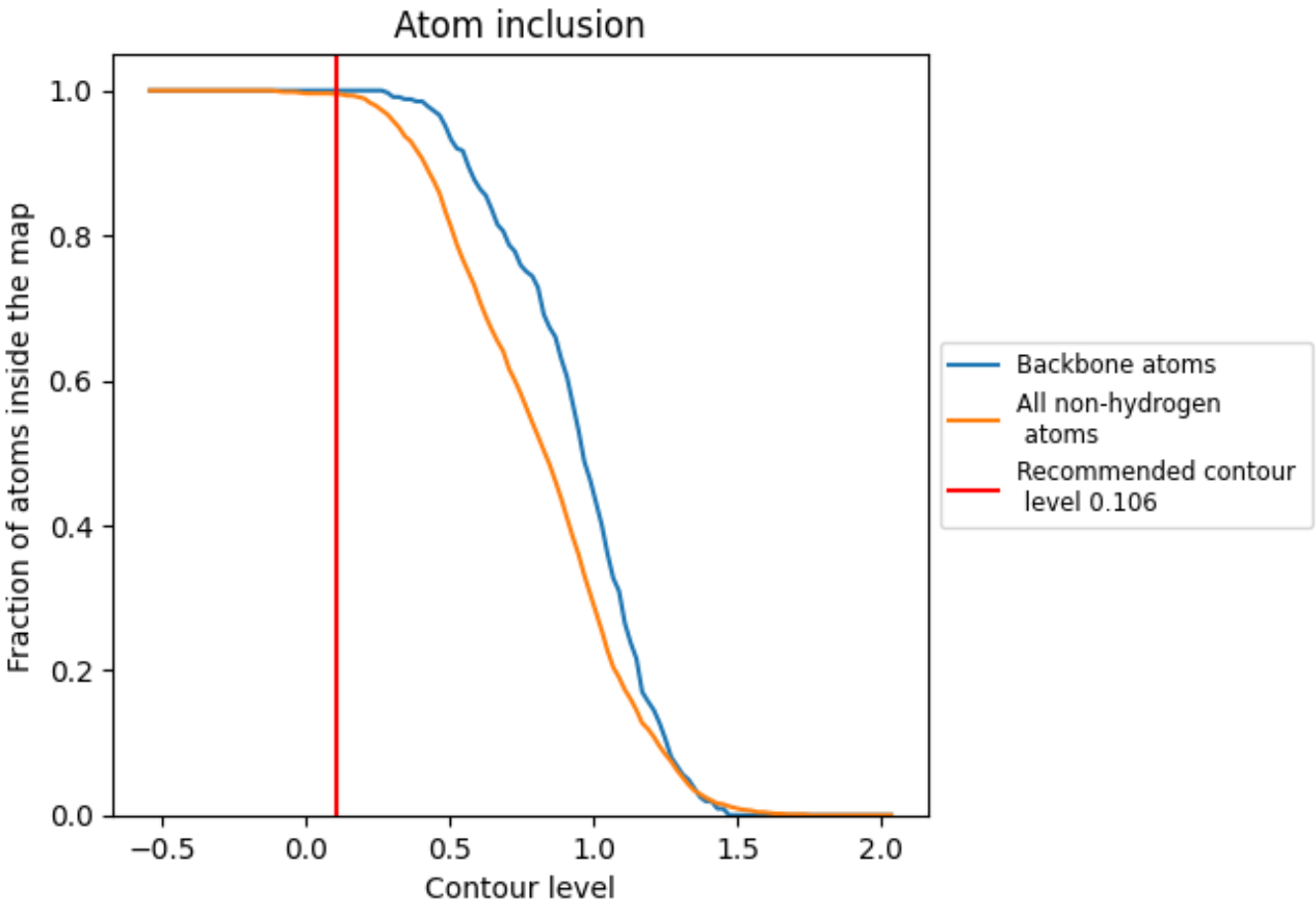
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.106).

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 100% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.106) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9950	0.5040
A	1.0000	0.5510
B	1.0000	0.5480
C	1.0000	0.5520
D	0.9880	0.4870
E	0.9880	0.4950
F	0.9880	0.5020
G	0.9880	0.5000
H	0.9880	0.5060
I	1.0000	0.5050
J	1.0000	0.5040
K	1.0000	0.4980
L	1.0000	0.4850
M	0.9880	0.4970
N	0.9880	0.4930
O	0.9880	0.4990
P	0.9880	0.4970
Q	0.9880	0.4890
R	1.0000	0.4890
S	1.0000	0.4970
T	1.0000	0.4910
U	1.0000	0.4880
V	0.9880	0.4940
W	0.9880	0.5010
X	0.9880	0.5080
Y	0.9880	0.5110
Z	1.0000	0.5030
a	1.0000	0.4930
b	1.0000	0.4950
c	1.0000	0.4810
d	1.0000	0.4820