



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:50 PM UTC

PDB ID : 6X3Q / pdb_00006x3q
Title : Hsa Siglec and Unique domains in complex with 3'sialyl-N-acetyllactosamine trisaccharide
Authors : Stubbs, H.E.; Iverson, T.M.
Deposited on : 2020-05-21
Resolution : 2.15 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

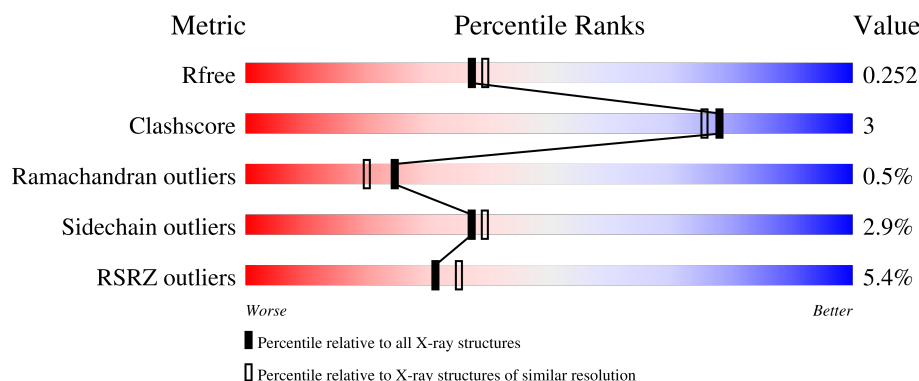
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2057 (2.16-2.16)
Clashscore	190562	2159 (2.16-2.16)
Ramachandran outliers	187476	2134 (2.16-2.16)
Sidechain outliers	187428	2133 (2.16-2.16)
RSRZ outliers	180081	2059 (2.16-2.16)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	234	5% 71% 13% • 12%
2	B	3	33% 67%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3215 atoms, of which 1487 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

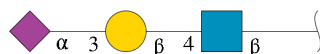
- Molecule 1 is a protein called Streptococcal hemagglutinin.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	205	Total	C	H	N	O	S	0	15	0
			3101	1002	1487	283	327	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	381	GLU	ASP	conflict	UNP A8AWU7
A	382	SER	PRO	conflict	UNP A8AWU7

- Molecule 2 is an oligosaccharide called N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	3	Total	C	N	O	0	0	0
			46	25	2	19			

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Na	0	0
			2	2		

- Molecule 4 is water.

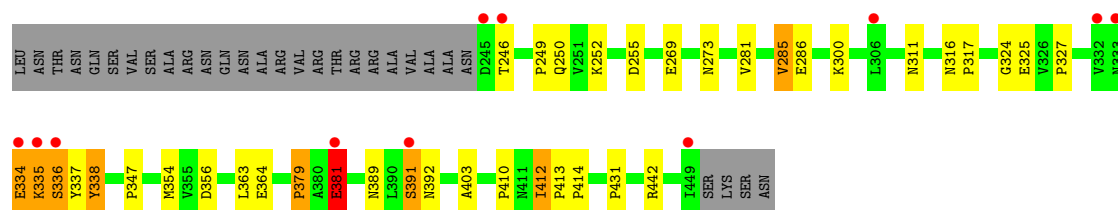
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	66	Total	O	0	0
			66	66		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Streptococcal hemagglutinin

Chain A: 5% 71% 13% 12%



- Molecule 2: N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain B: 33% 67%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	45.74Å 57.74Å 75.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.42 – 2.15 32.42 – 2.15	Depositor EDS
% Data completeness (in resolution range)	93.6 (32.42-2.15) 94.6 (32.42-2.15)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.13	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.00 (at 2.14Å)	Xtriage
Refinement program	PHENIX 1.18_3855	Depositor
R, R_{free}	0.206 , 0.233 0.208 , 0.252	Depositor DCC
R_{free} test set	313 reflections (0.45%)	wwPDB-VP
Wilson B-factor (Å ²)	34.1	Xtriage
Anisotropy	0.677	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 39.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3215	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.67% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NA, SIA, GAL, 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	1.59	26/1657 (1.6%)	1.51	18/2264 (0.8%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	316	ASN	C-N	13.22	1.51	1.33
1	A	317	PRO	C-O	-8.19	1.14	1.23
1	A	413	PRO	C-O	-7.71	1.15	1.24
1	A	412[A]	ILE	CA-C	7.29	1.60	1.52
1	A	325[A]	GLU	C-N	6.79	1.41	1.33
1	A	354[A]	MET	C-O	6.76	1.32	1.24
1	A	354[B]	MET	C-O	6.76	1.32	1.24
1	A	347	PRO	C-O	-6.72	1.15	1.24
1	A	249	PRO	C-O	-6.66	1.15	1.23
1	A	431	PRO	C-O	-6.31	1.15	1.24
1	A	414	PRO	C-O	-6.24	1.16	1.24
1	A	410	PRO	C-O	-6.19	1.16	1.24
1	A	381[A]	GLU	C-N	5.94	1.41	1.33
1	A	252[A]	LYS	CA-C	5.90	1.59	1.52
1	A	363	LEU	C-O	-5.90	1.18	1.23
1	A	379	PRO	C-O	-5.75	1.16	1.24
1	A	364	GLU	C-O	-5.66	1.16	1.24
1	A	281	VAL	C-O	-5.56	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	338	TYR	N-CA	-5.38	1.39	1.46
1	A	250[A]	GLN	C-O	5.31	1.30	1.23
1	A	412[A]	ILE	C-O	5.31	1.31	1.24
1	A	285	VAL	C-O	-5.27	1.18	1.24
1	A	273	ASN	C-O	-5.27	1.17	1.24
1	A	255	ASP	C-O	-5.03	1.17	1.23
1	A	311	ASN	C-O	-5.02	1.17	1.24
1	A	327	PRO	C-O	-5.01	1.17	1.23

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	391	SER	N-CA-C	-22.66	75.02	110.14
1	A	392	ASN	N-CA-C	16.78	134.40	111.24
1	A	354[A]	MET	CA-C-O	9.00	129.91	120.54
1	A	354[B]	MET	CA-C-O	9.00	129.91	120.54
1	A	316	ASN	CA-C-N	8.08	128.10	119.78
1	A	316	ASN	C-N-CA	8.08	128.10	119.78
1	A	381[A]	GLU	CA-C-N	-7.42	107.11	122.03
1	A	381[A]	GLU	C-N-CA	-7.42	107.11	122.03
1	A	325[A]	GLU	CA-C-N	-6.20	109.91	120.70
1	A	325[A]	GLU	C-N-CA	-6.20	109.91	120.70
1	A	316	ASN	O-C-N	-5.87	116.18	121.17
1	A	354[A]	MET	O-C-N	-5.62	116.36	123.05
1	A	354[B]	MET	O-C-N	-5.62	116.36	123.05
1	A	250[A]	GLN	CA-C-O	5.55	127.31	120.92
1	A	252[A]	LYS	CA-C-O	5.46	126.14	120.40
1	A	356[A]	ASP	N-CA-C	5.31	117.80	108.56
1	A	356[A]	ASP	CA-C-O	5.22	128.37	122.37
1	A	412[A]	ILE	O-C-N	-5.04	115.36	121.10

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	324	GLY	Mainchain
1	A	336[B]	SER	Mainchain
1	A	381[A]	GLU	Mainchain
1	A	412[A]	ILE	Mainchain

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	1614	1487	1532	8	6
2	B	46	0	40	5	0
3	A	2	0	0	0	0
4	A	66	0	0	2	1
All	All	1728	1487	1572	9	7

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 3.

All (9) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:ALA:O	4:A:601:HOH:O	2.16	0.61
1:A:442:ARG:O	4:A:602:HOH:O	2.17	0.56
2:B:3:SIA:H6	2:B:3:SIA:O1A	2.11	0.49
1:A:285:VAL:HG11	2:B:1:NAG:H5	1.95	0.48
1:A:389:ASN:O	1:A:391:SER:O	2.32	0.46
1:A:338:TYR:CZ	2:B:3:SIA:H112	2.53	0.43
1:A:338:TYR:CE1	2:B:3:SIA:H112	2.55	0.41
1:A:337:TYR:O	2:B:3:SIA:H4	2.21	0.40
1:A:286:GLU:O	1:A:286:GLU:HG2	2.22	0.40

All (7) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:THR:CB	1:A:335[B]:LYS:N[2_554]	1.21	0.99
1:A:246:THR:CB	1:A:335[B]:LYS:CA[2_554]	1.25	0.95
1:A:300:LYS:NZ	1:A:381[A]:GLU:OE1[4_546]	1.37	0.83
1:A:246:THR:O	1:A:334[A]:GLU:CB[2_554]	1.48	0.72
1:A:246:THR:O	1:A:334[B]:GLU:CA[2_554]	1.76	0.44
4:A:623:HOH:O	4:A:630:HOH:O[4_446]	2.06	0.14
1:A:246:THR:CB	1:A:334[B]:GLU:C[2_554]	2.07	0.13

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	209/234 (89%)	200 (96%)	7 (3%)	2 (1%)	12 8

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	334[A]	GLU
1	A	334[B]	GLU

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	179/202 (89%)	172 (96%)	7 (4%)	28 28

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	269	GLU
1	A	335[A]	LYS
1	A	335[B]	LYS
1	A	336[A]	SER
1	A	336[B]	SER
1	A	379	PRO
1	A	381[A]	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

3 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	NAG	B	1	2	15,15,15	1.95	6 (40%)	21,21,21	2.47	9 (42%)
2	GAL	B	2	2	11,11,12	1.75	3 (27%)	15,15,17	2.23	8 (53%)
2	SIA	B	3	2	20,20,21	3.37	10 (50%)	21,28,31	2.62	6 (28%)

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	NAG	B	1	2	-	2/6/26/26	0/1/1/1
2	GAL	B	2	2	-	0/2/19/22	0/1/1/1
2	SIA	B	3	2	-	0/18/34/38	0/1/1/1

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	3	SIA	C3-C2	9.44	1.67	1.52
2	B	3	SIA	C4-C5	-6.47	1.47	1.53
2	B	3	SIA	C3-C4	-3.91	1.45	1.52
2	B	3	SIA	O10-C10	-3.41	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	GAL	O3-C3	-3.30	1.34	1.43
2	B	1	NAG	C2-N2	-3.30	1.40	1.45
2	B	3	SIA	O6-C6	-3.27	1.38	1.44
2	B	3	SIA	O1B-C1	-3.23	1.20	1.30
2	B	3	SIA	C5-N5	-3.20	1.40	1.45
2	B	3	SIA	C2-C1	3.05	1.56	1.52
2	B	1	NAG	O5-C5	-2.96	1.37	1.44
2	B	3	SIA	O8-C8	-2.87	1.37	1.43
2	B	1	NAG	C3-C2	-2.86	1.47	1.53
2	B	1	NAG	C1-C2	-2.75	1.49	1.52
2	B	2	GAL	C4-C5	-2.56	1.47	1.53
2	B	2	GAL	O5-C1	-2.54	1.39	1.43
2	B	1	NAG	O5-C1	-2.32	1.37	1.42
2	B	1	NAG	O7-C7	-2.05	1.18	1.23
2	B	3	SIA	O4-C4	-2.03	1.39	1.43

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3	SIA	O6-C2-C3	-8.11	99.66	110.56
2	B	1	NAG	O5-C1-C2	-5.46	104.03	109.52
2	B	2	GAL	O3-C3-C2	-4.60	100.67	110.05
2	B	3	SIA	O1B-C1-O1A	-4.32	114.27	124.08
2	B	3	SIA	O4-C4-C3	-4.23	99.33	109.86
2	B	1	NAG	C4-C3-C2	-4.17	104.33	110.40
2	B	1	NAG	O1-C1-O5	-3.83	99.02	110.41
2	B	3	SIA	O1B-C1-C2	3.83	122.66	112.71
2	B	1	NAG	C1-C2-N2	3.71	115.02	110.73
2	B	1	NAG	O3-C3-C4	-3.28	102.66	110.38
2	B	2	GAL	C6-C5-C4	-3.17	105.25	113.02
2	B	3	SIA	C4-C5-N5	-2.90	104.73	110.44
2	B	1	NAG	C3-C2-N2	-2.88	105.32	110.62
2	B	2	GAL	O5-C5-C6	2.77	113.06	107.66
2	B	1	NAG	O3-C3-C2	-2.71	104.19	109.58
2	B	1	NAG	O4-C4-C5	2.66	115.88	109.32
2	B	1	NAG	O5-C5-C4	-2.53	105.14	109.70
2	B	2	GAL	C1-O5-C5	2.39	115.39	112.19
2	B	2	GAL	O2-C2-C1	2.38	114.68	109.22
2	B	3	SIA	C9-C8-C7	-2.32	107.43	112.17
2	B	2	GAL	O5-C1-C2	-2.25	105.42	110.79
2	B	2	GAL	O5-C5-C4	-2.16	105.57	110.83
2	B	2	GAL	C3-C4-C5	-2.05	106.52	110.23

There are no chirality outliers.

All (2) torsion outliers are listed below:

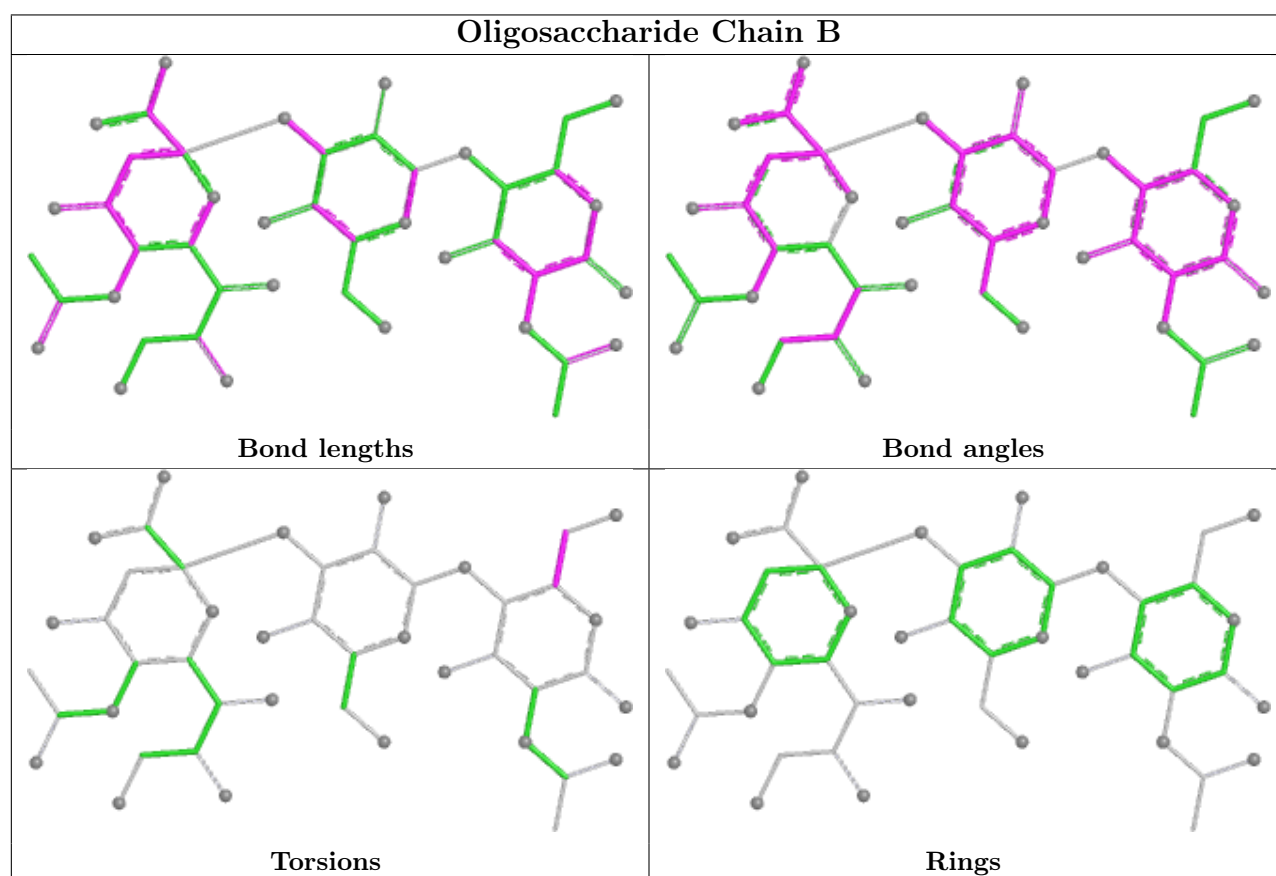
Mol	Chain	Res	Type	Atoms
2	B	1	NAG	C4-C5-C6-O6
2	B	1	NAG	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1	NAG	1	0
2	B	3	SIA	4	0

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



5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	205/234 (87%)	0.53	11 (5%) 31 35	24, 43, 66, 321	8 (3%)

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	335[A]	LYS	22.7
1	A	333[A]	ASN	14.4
1	A	334[A]	GLU	8.0
1	A	336[A]	SER	7.6
1	A	246	THR	4.9
1	A	381[A]	GLU	4.0
1	A	449	ILE	3.8
1	A	391	SER	3.6
1	A	332[A]	VAL	3.5
1	A	245	ASP	3.3
1	A	306	LEU	2.9

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

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

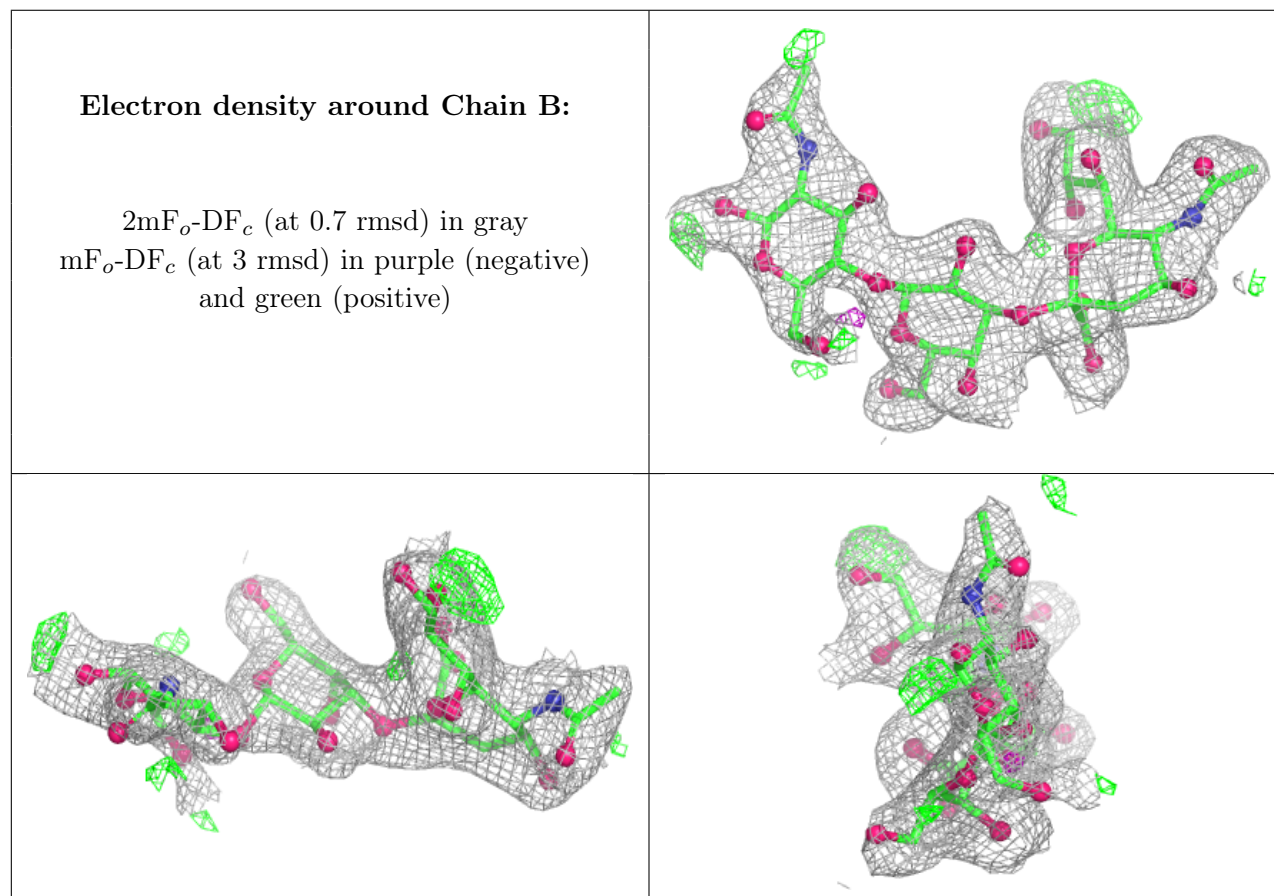
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	NAG	B	1	15/15	0.79	0.14	52,59,67,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	SIA	B	3	20/21	0.90	0.09	32,37,47,56	0
2	GAL	B	2	11/12	0.91	0.09	33,41,47,48	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	NA	A	502	1/1	0.90	0.08	45,45,45,45	0
3	NA	A	501	1/1	0.91	0.10	29,29,29,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.