



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 10, 2020 – 01:07 PM BST

PDB ID : 6PKY
Title : Guinea pig N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA) catalytic domain auto-inhibited by pro-peptide
Authors : Gorelik, A.; Illes, K.; Nagar, B.
Deposited on : 2019-06-30
Resolution : 3.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.13.1

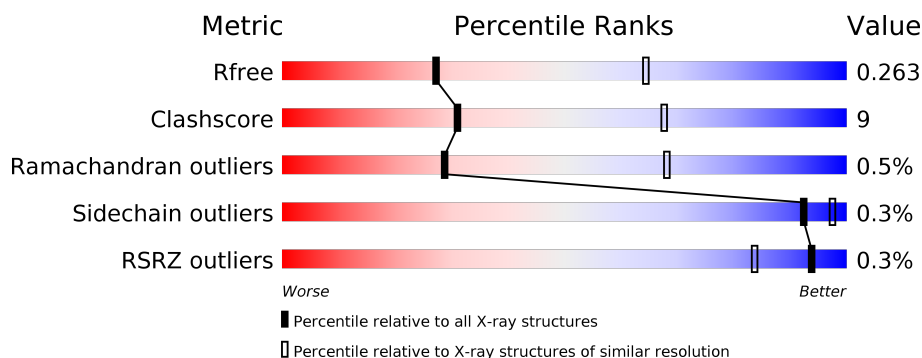
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 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	312	 76% 16% 8%
1	B	312	 74% 17% 9%
1	C	312	 72% 19% 9%
1	D	312	 70% 20% 9%
2	E	3	 67% 33%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 17299 atoms, of which 8407 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 N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	286	Total	C	H	N	O	S	0	0	0
			4265	1341	2091	406	416	11			
1	B	285	Total	C	H	N	O	S	0	0	0
			4257	1339	2088	405	414	11			
1	C	285	Total	C	H	N	O	S	0	0	0
			4258	1339	2088	405	415	11			
1	D	283	Total	C	H	N	O	S	0	0	0
			4237	1332	2079	403	412	11			

There are 40 discrepancies between the modelled and reference sequences:

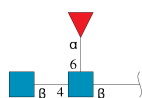
Chain	Residue	Modelled	Actual	Comment	Reference
A	16	ASP	-	expression tag	UNP H0VTT5
A	17	ARG	-	expression tag	UNP H0VTT5
A	18	HIS	-	expression tag	UNP H0VTT5
A	19	HIS	-	expression tag	UNP H0VTT5
A	20	HIS	-	expression tag	UNP H0VTT5
A	21	HIS	-	expression tag	UNP H0VTT5
A	22	HIS	-	expression tag	UNP H0VTT5
A	23	HIS	-	expression tag	UNP H0VTT5
A	24	LYS	-	expression tag	UNP H0VTT5
A	25	LEU	-	expression tag	UNP H0VTT5
B	16	ASP	-	expression tag	UNP H0VTT5
B	17	ARG	-	expression tag	UNP H0VTT5
B	18	HIS	-	expression tag	UNP H0VTT5
B	19	HIS	-	expression tag	UNP H0VTT5
B	20	HIS	-	expression tag	UNP H0VTT5
B	21	HIS	-	expression tag	UNP H0VTT5
B	22	HIS	-	expression tag	UNP H0VTT5
B	23	HIS	-	expression tag	UNP H0VTT5
B	24	LYS	-	expression tag	UNP H0VTT5
B	25	LEU	-	expression tag	UNP H0VTT5

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Chain	Residue	Modelled	Actual	Comment	Reference
C	16	ASP	-	expression tag	UNP H0VTT5
C	17	ARG	-	expression tag	UNP H0VTT5
C	18	HIS	-	expression tag	UNP H0VTT5
C	19	HIS	-	expression tag	UNP H0VTT5
C	20	HIS	-	expression tag	UNP H0VTT5
C	21	HIS	-	expression tag	UNP H0VTT5
C	22	HIS	-	expression tag	UNP H0VTT5
C	23	HIS	-	expression tag	UNP H0VTT5
C	24	LYS	-	expression tag	UNP H0VTT5
C	25	LEU	-	expression tag	UNP H0VTT5
D	16	ASP	-	expression tag	UNP H0VTT5
D	17	ARG	-	expression tag	UNP H0VTT5
D	18	HIS	-	expression tag	UNP H0VTT5
D	19	HIS	-	expression tag	UNP H0VTT5
D	20	HIS	-	expression tag	UNP H0VTT5
D	21	HIS	-	expression tag	UNP H0VTT5
D	22	HIS	-	expression tag	UNP H0VTT5
D	23	HIS	-	expression tag	UNP H0VTT5
D	24	LYS	-	expression tag	UNP H0VTT5
D	25	LEU	-	expression tag	UNP H0VTT5

- Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	3	Total	C	H	N	O	0	0	0
			72	22	34	2	14			

- Molecule 3 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			27	8	13	1	5		
3	C	1	Total	C	H	N	O	0	0
			28	8	14	1	5		

- Molecule 4 is BROMIDE ION (three-letter code: BR) (formula: Br).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Br	0	0
			1	1		
4	A	1	Total	Br	0	0
			1	1		
4	D	1	Total	Br	0	0
			1	1		
4	C	1	Total	Br	0	0
			1	1		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	6	Total	Cl	0	0
			6	6		
5	A	8	Total	Cl	0	0
			8	8		
5	D	11	Total	Cl	0	0
			11	11		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	7	Total	Cl	0	0
			7	7		

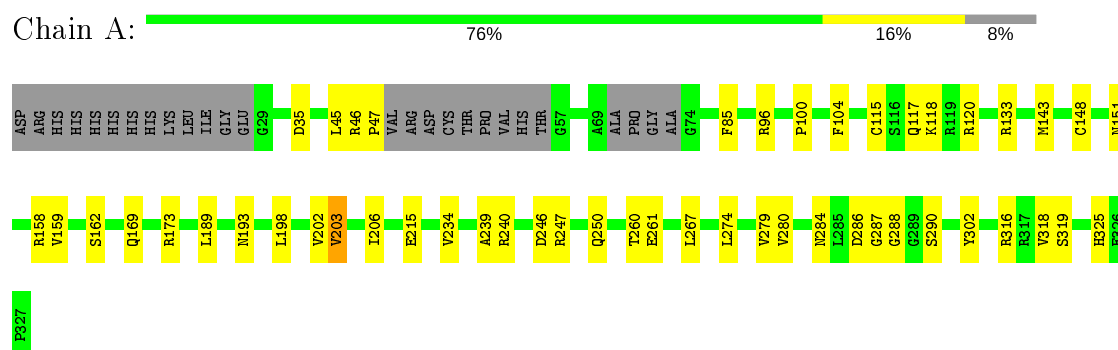
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	20	Total	O	0	0
			20	20		
6	B	25	Total	O	0	0
			25	25		
6	C	40	Total	O	0	0
			40	40		
6	D	34	Total	O	0	0
			34	34		

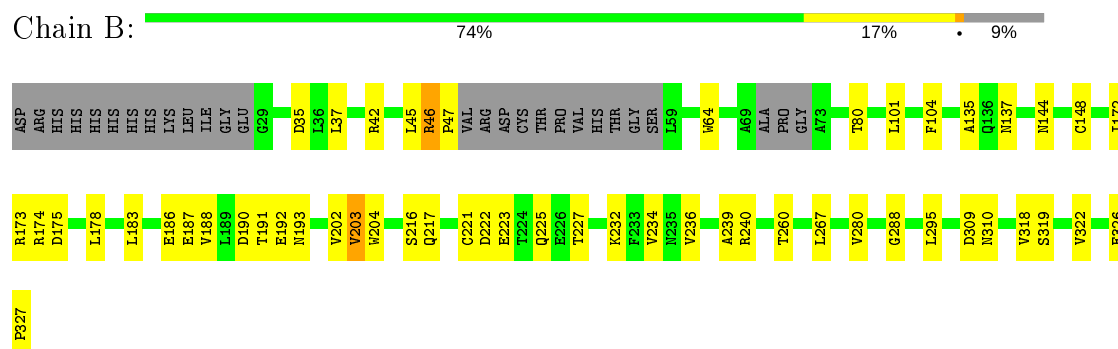
3 Residue-property plots

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

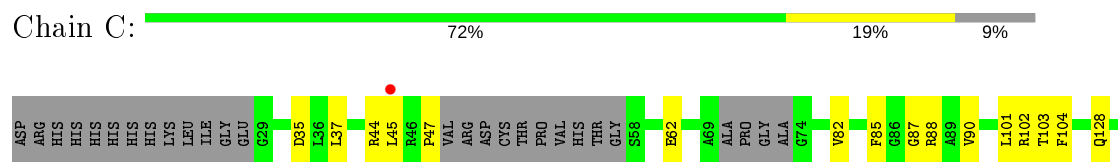
- Molecule 1: N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA)



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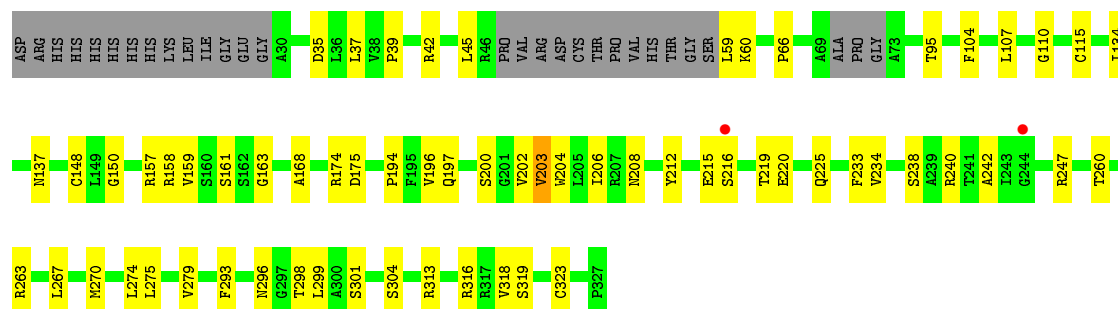


- Molecule 1: N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA)





- Molecule 1: N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (NAGPA)



- Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	72.62Å 72.62Å 240.69Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.23 – 3.00 47.23 – 3.00	Depositor EDS
% Data completeness (in resolution range)	92.8 (47.23-3.00) 92.8 (47.23-3.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.72 (at 3.01Å)	Xtriage
Refinement program	PHENIX (1.15_3459: ???)	Depositor
R, R_{free}	0.212 , 0.258 0.219 , 0.263	Depositor DCC
R_{free} test set	1932 reflections (8.09%)	wwPDB-VP
Wilson B-factor (Å ²)	49.1	Xtriage
Anisotropy	0.054	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 25.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.468 for h,-k,-l	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	17299	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.96% 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: CL, FUC, BR, 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	0.25	0/2218	0.47	0/3006
1	B	0.26	0/2213	0.48	0/3000
1	C	0.25	0/2214	0.46	0/3001
1	D	0.24	0/2201	0.47	0/2983
All	All	0.25	0/8846	0.47	0/11990

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2174	2091	2091	29	1
1	B	2169	2088	2088	45	0
1	C	2170	2088	2088	42	1
1	D	2158	2079	2079	46	0
2	E	38	34	34	2	0
3	A	14	13	13	0	0
3	C	14	14	13	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	8	0	0	1	0
5	B	6	0	0	0	0
5	C	7	0	0	0	0
5	D	11	0	0	0	0
6	A	20	0	0	1	0
6	B	25	0	0	2	0
6	C	40	0	0	4	0
6	D	34	0	0	2	0
All	All	8892	8407	8406	156	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

The worst 5 of 156 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:LEU:HD21	2:E:1:NAG:H82	1.54	0.90
1:A:148:CYS:SG	1:A:319:SER:OG	2.33	0.86
1:B:148:CYS:SG	1:B:319:SER:OG	2.39	0.79
1:C:35:ASP:OD1	1:C:260:THR:OG1	1.99	0.79
1:C:87:GLY:O	6:C:501:HOH:O	2.08	0.71

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:GLN:NE2	1:C:128:GLN:O[1_455]	2.04	0.16

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	280/312 (90%)	269 (96%)	9 (3%)	2 (1%)	22	60
1	B	279/312 (89%)	267 (96%)	10 (4%)	2 (1%)	22	60
1	C	279/312 (89%)	265 (95%)	13 (5%)	1 (0%)	34	72
1	D	277/312 (89%)	266 (96%)	10 (4%)	1 (0%)	34	72
All	All	1115/1248 (89%)	1067 (96%)	42 (4%)	6 (0%)	29	68

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	203	VAL
1	B	203	VAL
1	C	203	VAL
1	D	203	VAL
1	A	46	ARG

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	231/253 (91%)	230 (100%)	1 (0%)	91	97
1	B	230/253 (91%)	230 (100%)	0	100	100
1	C	231/253 (91%)	230 (100%)	1 (0%)	91	97
1	D	229/253 (90%)	228 (100%)	1 (0%)	91	97
All	All	921/1012 (91%)	918 (100%)	3 (0%)	92	97

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	85	PHE
1	C	186	GLU
1	D	208	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	310	ASN
1	D	284	ASN
1	C	310	ASN
1	A	310	ASN
1	B	325	HIS

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	E	1	1,2	14,14,15	0.78	1 (7%)	17,19,21	1.60	3 (17%)
2	NAG	E	2	2	14,14,15	1.16	1 (7%)	17,19,21	1.44	2 (11%)
2	FUC	E	3	2	10,10,11	0.81	0	14,14,16	1.04	1 (7%)

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	E	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	E	2	2	-	2/6/23/26	0/1/1/1
2	FUC	E	3	2	-	-	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	2	NAG	O5-C1	-3.78	1.37	1.43
2	E	1	NAG	O5-C1	2.32	1.47	1.43

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	1	NAG	C1-O5-C5	4.42	118.18	112.19
2	E	2	NAG	C1-O5-C5	3.55	117.01	112.19
2	E	1	NAG	C1-C2-N2	3.24	116.02	110.49
2	E	2	NAG	C4-C3-C2	-2.69	107.07	111.02
2	E	3	FUC	C1-O5-C5	2.13	117.62	112.78

There are no chirality outliers.

All (4) torsion outliers are listed below:

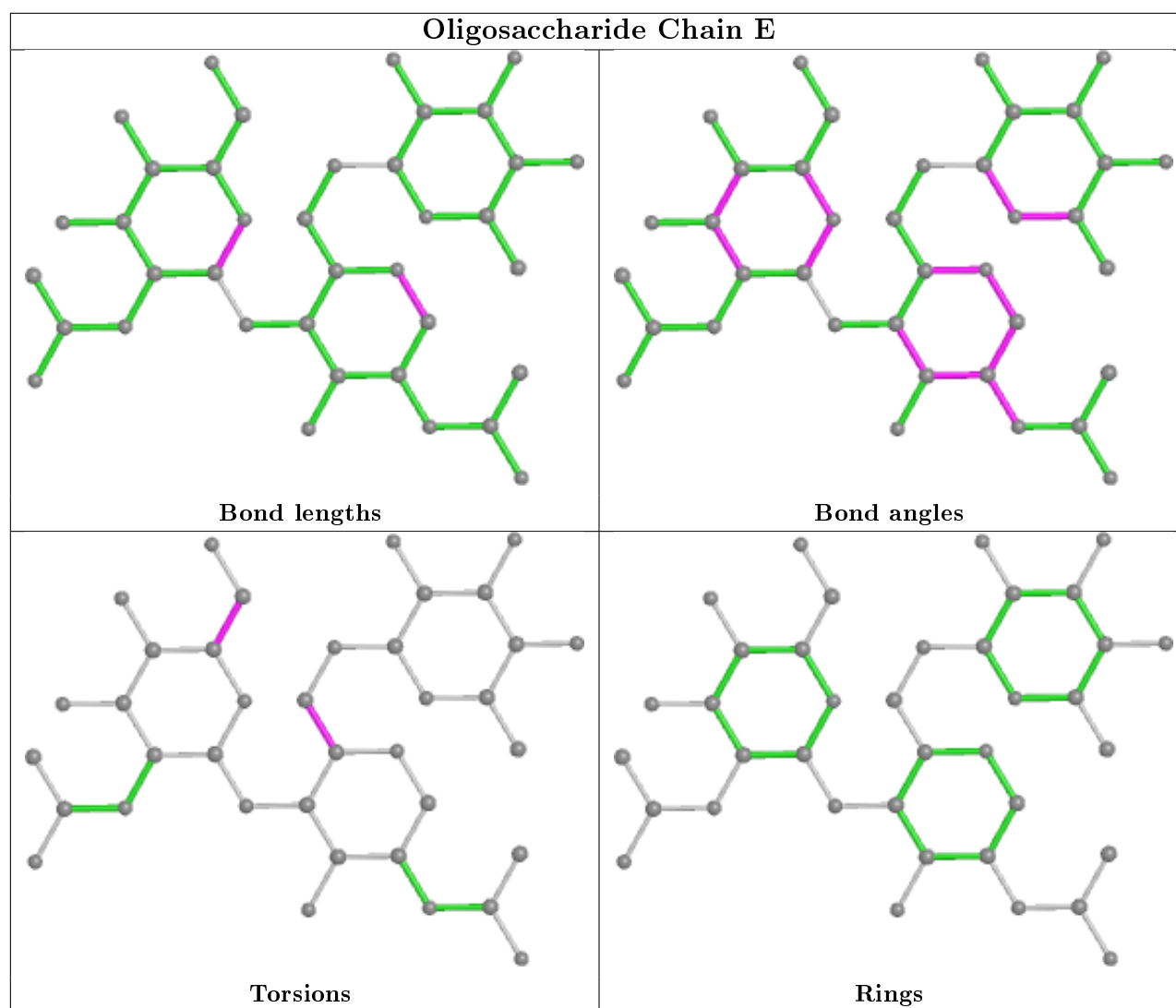
Mol	Chain	Res	Type	Atoms
2	E	2	NAG	O5-C5-C6-O6
2	E	1	NAG	C4-C5-C6-O6
2	E	1	NAG	O5-C5-C6-O6
2	E	2	NAG	C4-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	1	NAG	2	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 [i](#)

Of 38 ligands modelled in this entry, 36 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	NAG	A	401	1	14,14,15	0.21	0	17,19,21	0.37	0
3	NAG	C	401	1	14,14,15	0.30	0	17,19,21	0.36	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
3	NAG	A	401	1	-	2/6/23/26	0/1/1/1
3	NAG	C	401	1	-	4/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	401	NAG	O5-C5-C6-O6
3	C	401	NAG	C1-C2-N2-C7
3	C	401	NAG	C4-C5-C6-O6
3	A	401	NAG	O5-C5-C6-O6
3	C	401	NAG	C3-C2-N2-C7

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	401	NAG	2	0

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	286/312 (91%)	-0.07	0 100 100	19, 54, 72, 88	0
1	B	285/312 (91%)	0.02	0 100 100	14, 57, 79, 94	0
1	C	285/312 (91%)	-0.04	1 (0%) 92 79	29, 54, 77, 97	0
1	D	283/312 (90%)	0.07	2 (0%) 87 69	22, 64, 83, 109	0
All	All	1139/1248 (91%)	-0.00	3 (0%) 94 84	14, 57, 80, 109	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	45	LEU	2.6
1	D	244	GLY	2.4
1	D	216	SER	2.2

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

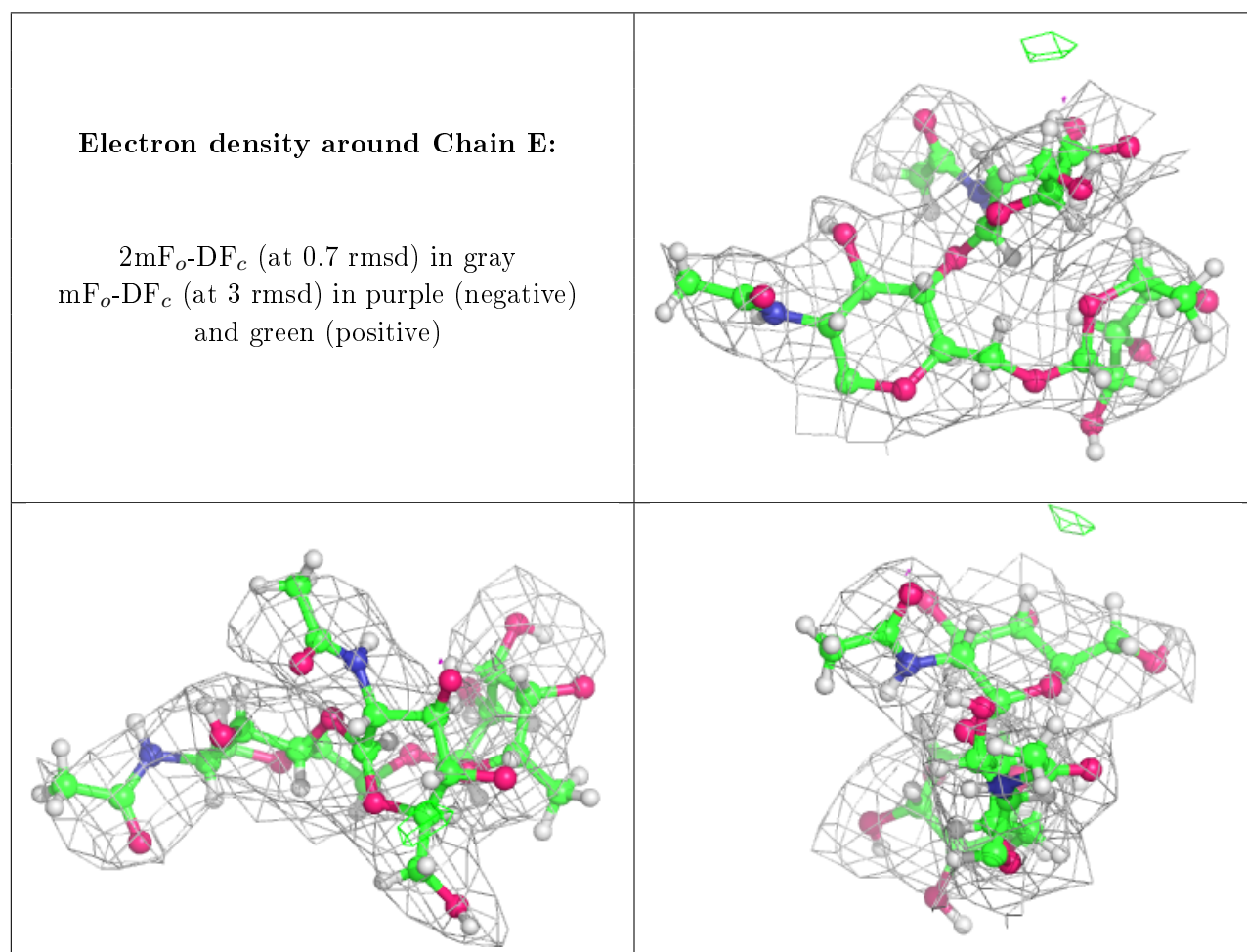
There are no non-standard protein/DNA/RNA residues in this entry.

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	E	2	14/15	0.85	0.19	54,70,85,88	0
2	FUC	E	3	10/11	0.90	0.20	53,78,93,95	0
2	NAG	E	1	14/15	0.92	0.14	25,55,67,76	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 ⓘ

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(\AA^2)	Q<0.9
3	NAG	A	401	14/15	0.86	0.22	38,64,74,82	0
5	CL	D	408	1/1	0.86	0.12	45,45,45,45	0
4	BR	D	401	1/1	0.90	0.19	123,123,123,123	0
3	NAG	C	401	14/15	0.91	0.13	41,65,80,86	0
5	CL	C	409	1/1	0.92	0.15	67,67,67,67	0
5	CL	B	410	1/1	0.93	0.15	45,45,45,45	0
4	BR	C	402	1/1	0.93	0.34	97,97,97,97	0
5	CL	D	406	1/1	0.93	0.14	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	CL	B	406	1/1	0.95	0.11	36,36,36,36	0
5	CL	A	407	1/1	0.95	0.10	49,49,49,49	0
5	CL	D	412	1/1	0.95	0.10	62,62,62,62	0
4	BR	A	402	1/1	0.96	0.06	70,70,70,70	0
5	CL	C	408	1/1	0.96	0.14	56,56,56,56	0
5	CL	B	409	1/1	0.96	0.08	17,17,17,17	0
5	CL	A	410	1/1	0.97	0.12	43,43,43,43	0
4	BR	B	404	1/1	0.97	0.13	75,75,75,75	0
5	CL	D	407	1/1	0.97	0.09	48,48,48,48	0
5	CL	A	405	1/1	0.97	0.10	42,42,42,42	0
5	CL	B	405	1/1	0.97	0.06	32,32,32,32	0
5	CL	C	406	1/1	0.97	0.13	33,33,33,33	0
5	CL	A	408	1/1	0.97	0.10	52,52,52,52	0
5	CL	D	402	1/1	0.97	0.06	34,34,34,34	0
5	CL	C	405	1/1	0.98	0.09	42,42,42,42	0
5	CL	A	406	1/1	0.98	0.12	47,47,47,47	0
5	CL	D	409	1/1	0.98	0.09	38,38,38,38	0
5	CL	D	410	1/1	0.98	0.19	26,26,26,26	0
5	CL	B	407	1/1	0.98	0.14	38,38,38,38	0
5	CL	A	409	1/1	0.98	0.09	39,39,39,39	0
5	CL	A	404	1/1	0.98	0.11	34,34,34,34	0
5	CL	D	411	1/1	0.98	0.08	25,25,25,25	0
5	CL	D	403	1/1	0.98	0.09	39,39,39,39	0
5	CL	B	408	1/1	0.98	0.11	31,31,31,31	0
5	CL	D	404	1/1	0.98	0.06	16,16,16,16	0
5	CL	D	405	1/1	0.99	0.10	17,17,17,17	0
5	CL	C	407	1/1	0.99	0.08	38,38,38,38	0
5	CL	C	403	1/1	0.99	0.16	32,32,32,32	0
5	CL	C	404	1/1	0.99	0.10	10,10,10,10	0
5	CL	A	403	1/1	1.00	0.14	28,28,28,28	0

6.5 Other polymers ⓘ

There are no such residues in this entry.