Full wwPDB X-ray Structure Validation Report ⓘ

Apr 10, 2024 – 02:04 PM EDT

PDB ID	:	8TLZ
Title	:	Preclinical Characterization of Pan-NKG2D Ligand-Binding NKG2D Receptor Decoys
Authors	:	Rupert, P.B.; Strong, R.
Deposited on	:	2023-07-27
Resolution	:	2.75 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:

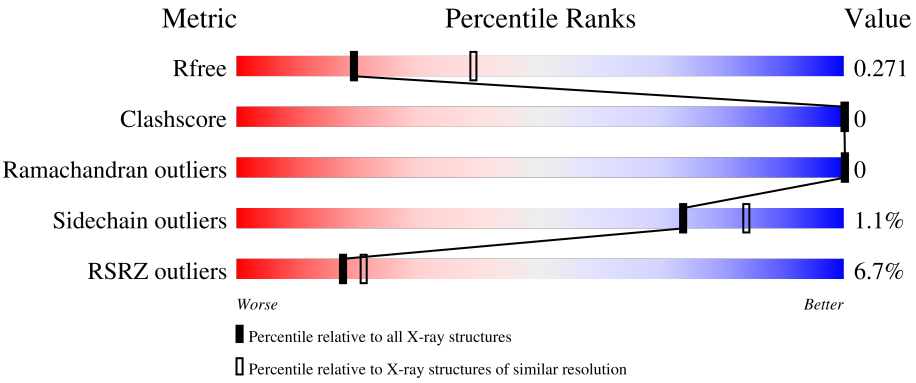
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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	1235 (2.78-2.74)
Clashscore	141614	1277 (2.78-2.74)
Ramachandran outliers	138981	1257 (2.78-2.74)
Sidechain outliers	138945	1257 (2.78-2.74)
RSRZ outliers	127900	1207 (2.78-2.74)

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 <=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	188	7% 87% · 13%
1	B	188	5% 87% · 12%
2	C	3	100%
2	D	3	100%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	GOL	B	202	-	-	-	X

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 2810 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

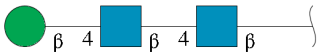
- Molecule 1 is a protein called MHC class I polypeptide-related sequence A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	164	Total	C	N	O	S	0	1	0
			1324	820	240	255	9			
1	B	165	Total	C	N	O	S	0	0	0
			1320	817	241	253	9			

There are 24 discrepancies between the modelled and reference sequences:

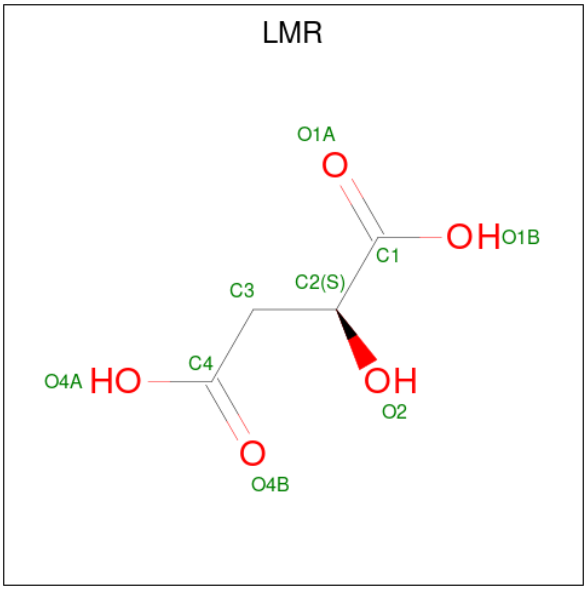
Chain	Residue	Modelled	Actual	Comment	Reference
A	69	TRP	ASN	conflict	UNP Q29983
A	125	LEU	LYS	conflict	UNP Q29983
A	152	GLU	LYS	conflict	UNP Q29983
A	154	ASP	LYS	conflict	UNP Q29983
A	161	ARG	HIS	conflict	UNP Q29983
A	166	SER	GLN	conflict	UNP Q29983
A	183	HIS	-	expression tag	UNP Q29983
A	184	HIS	-	expression tag	UNP Q29983
A	185	HIS	-	expression tag	UNP Q29983
A	186	HIS	-	expression tag	UNP Q29983
A	187	HIS	-	expression tag	UNP Q29983
A	188	HIS	-	expression tag	UNP Q29983
B	69	TRP	ASN	conflict	UNP Q29983
B	125	LEU	LYS	conflict	UNP Q29983
B	152	GLU	LYS	conflict	UNP Q29983
B	154	ASP	LYS	conflict	UNP Q29983
B	161	ARG	HIS	conflict	UNP Q29983
B	166	SER	GLN	conflict	UNP Q29983
B	183	HIS	-	expression tag	UNP Q29983
B	184	HIS	-	expression tag	UNP Q29983
B	185	HIS	-	expression tag	UNP Q29983
B	186	HIS	-	expression tag	UNP Q29983
B	187	HIS	-	expression tag	UNP Q29983
B	188	HIS	-	expression tag	UNP Q29983

- Molecule 2 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



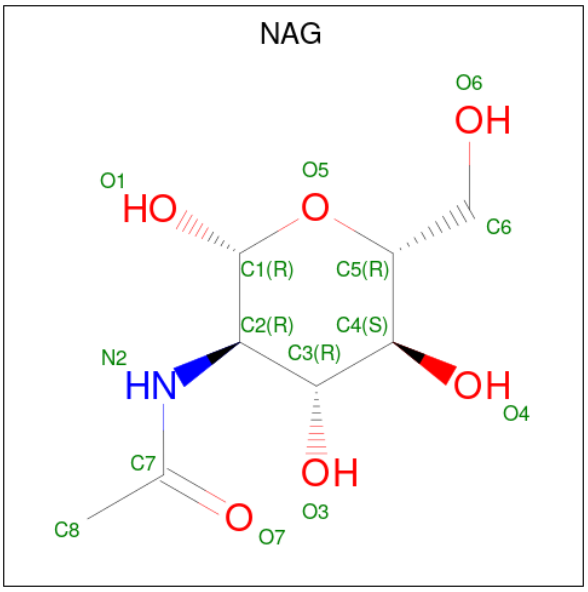
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	C	3	Total C N O 39 22 2 15	0	0	0
2	D	3	Total C N O 39 22 2 15	0	0	0

- Molecule 3 is (2S)-2-hydroxybutanedioic acid (three-letter code: LMR) (formula: $C_4H_6O_5$).



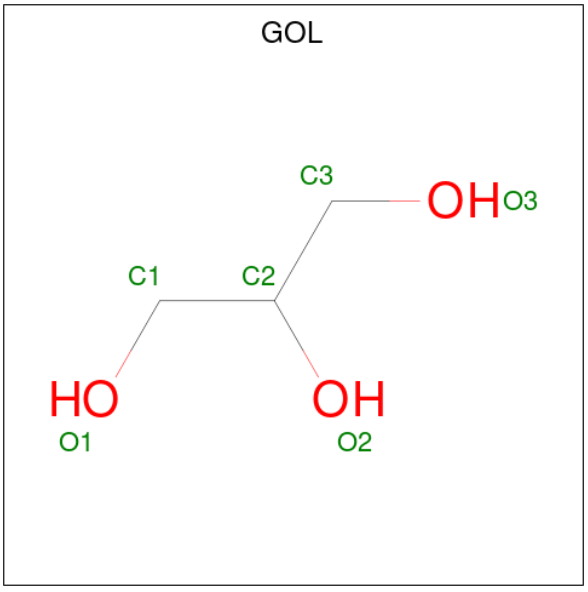
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 9 4 5	0	0
3	B	1	Total C O 9 4 5	0	0

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total C N O 14 8 1 5	0	0

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	B	1	Total C O 6 3 3	0	0

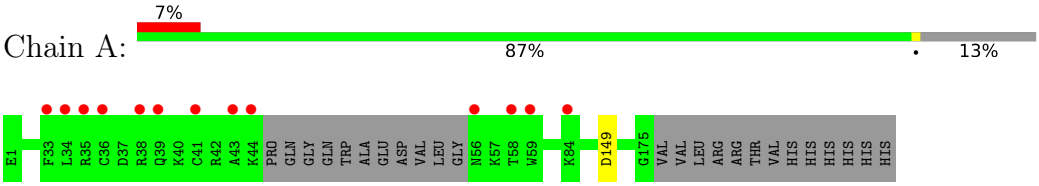
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	22	Total O 22 22	0	0
6	B	28	Total O 28 28	0	0

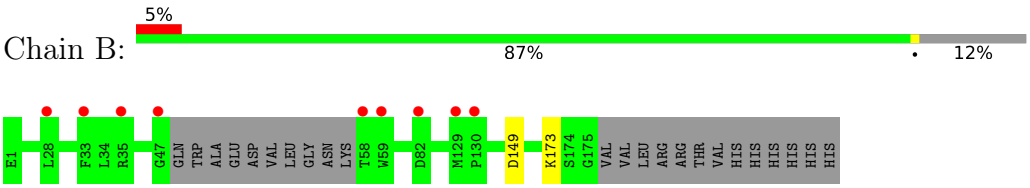
3 Residue-property plots (i)

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.

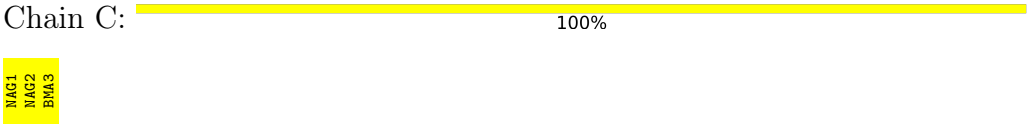
• Molecule 1: MHC class I polypeptide-related sequence A



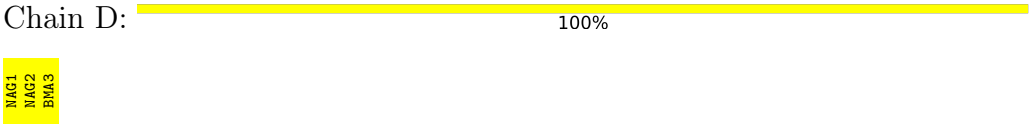
• Molecule 1: MHC class I polypeptide-related sequence A



• Molecule 2: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 2: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α, β, γ	127.82Å 127.82Å 157.02Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	110.70 – 2.75 40.49 – 2.75	Depositor EDS
% Data completeness (in resolution range)	99.7 (110.70-2.75) 99.7 (40.49-2.75)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	7.24 (at 2.77Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.230 , 0.270 0.231 , 0.271	Depositor DCC
R_{free} test set	1054 reflections (5.20%)	wwPDB-VP
Wilson B-factor (Å^2)	69.8	Xtriage
Anisotropy	0.007	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 46.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	2810	wwPDB-VP
Average B, all atoms (Å^2)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.00% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, NAG, LMR, BMA

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	0.39	0/1355	0.65	0/1831
1	B	0.38	0/1348	0.63	0/1822
All	All	0.38	0/2703	0.64	0/3653

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	1324	0	1232	0	0
1	B	1320	0	1225	0	0
2	C	39	0	34	0	0
2	D	39	0	34	0	0
3	A	9	0	4	0	0
3	B	9	0	4	0	0
4	B	14	0	13	0	0
5	B	6	0	8	0	0
6	A	22	0	0	0	0
6	B	28	0	0	0	0
All	All	2810	0	2554	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 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	161/188 (86%)	155 (96%)	6 (4%)	0	100	100
1	B	161/188 (86%)	153 (95%)	8 (5%)	0	100	100
All	All	322/376 (86%)	308 (96%)	14 (4%)	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 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	142/170 (84%)	141 (99%)	1 (1%)	84	89
1	B	140/170 (82%)	138 (99%)	2 (1%)	67	79
All	All	282/340 (83%)	279 (99%)	3 (1%)	73	84

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

Mol	Chain	Res	Type
1	A	149	ASP

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Mol	Chain	Res	Type
1	B	149	ASP
1	B	173	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	141	ASN

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)

6 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	C	1	1,2	14,14,15	0.36	0	17,19,21	1.12	2 (11%)
2	NAG	C	2	2	14,14,15	0.48	0	17,19,21	1.30	2 (11%)
2	BMA	C	3	2	11,11,12	0.52	0	15,15,17	1.56	2 (13%)
2	NAG	D	1	1,2	14,14,15	0.43	0	17,19,21	1.14	1 (5%)
2	NAG	D	2	2	14,14,15	0.45	0	17,19,21	2.10	1 (5%)
2	BMA	D	3	2	11,11,12	0.57	0	15,15,17	1.66	2 (13%)

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	C	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	C	2	2	-	2/6/23/26	0/1/1/1
2	BMA	C	3	2	-	2/2/19/22	0/1/1/1
2	NAG	D	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	D	2	2	-	0/6/23/26	0/1/1/1
2	BMA	D	3	2	-	2/2/19/22	0/1/1/1

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	2	NAG	C1-O5-C5	7.52	122.38	112.19
2	D	3	BMA	C1-O5-C5	5.05	119.04	112.19
2	C	3	BMA	C1-O5-C5	4.89	118.82	112.19
2	C	2	NAG	C1-O5-C5	3.91	117.49	112.19
2	D	3	BMA	C1-C2-C3	3.23	113.64	109.67
2	D	1	NAG	C1-O5-C5	2.95	116.19	112.19
2	C	1	NAG	C1-O5-C5	2.56	115.66	112.19
2	C	3	BMA	C1-C2-C3	2.41	112.63	109.67
2	C	2	NAG	O4-C4-C5	2.19	114.75	109.30
2	C	1	NAG	C4-C3-C2	2.01	113.97	111.02

There are no chirality outliers.

All (6) torsion outliers are listed below:

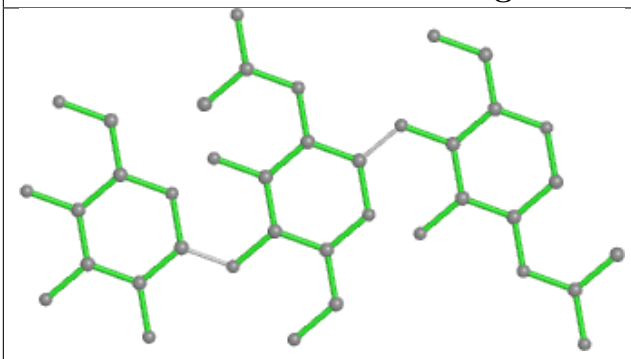
Mol	Chain	Res	Type	Atoms
2	C	2	NAG	O5-C5-C6-O6
2	C	3	BMA	O5-C5-C6-O6
2	C	2	NAG	C4-C5-C6-O6
2	D	3	BMA	C4-C5-C6-O6
2	C	3	BMA	C4-C5-C6-O6
2	D	3	BMA	O5-C5-C6-O6

There are no ring outliers.

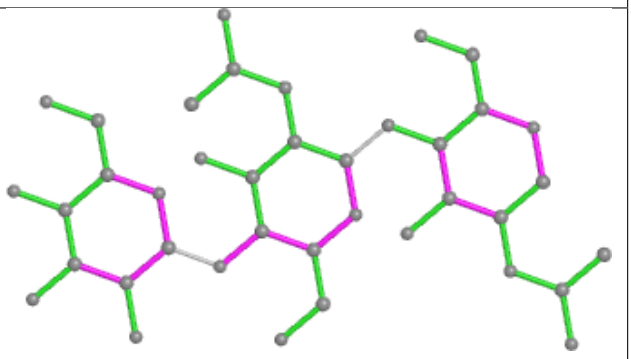
No monomer is involved in short contacts.

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

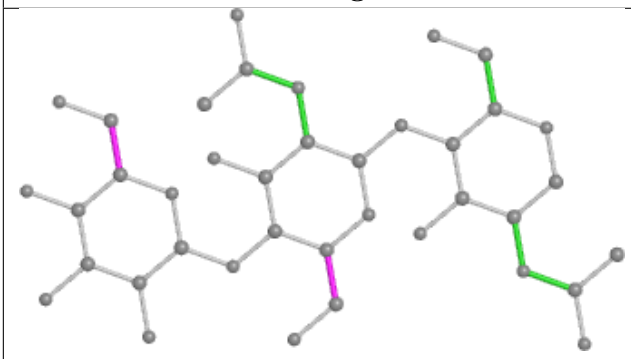
Oligosaccharide Chain C



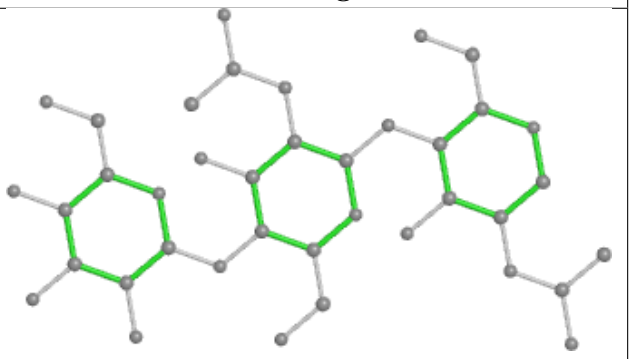
Bond lengths



Bond angles

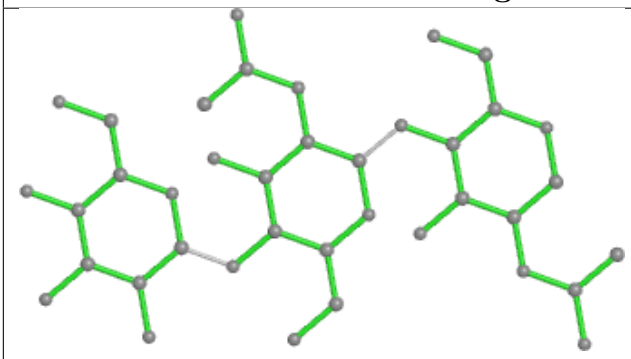


Torsions

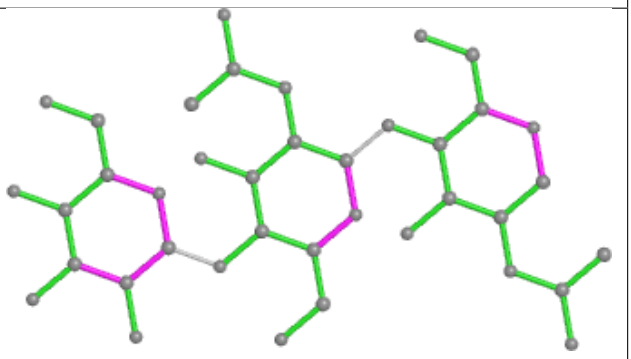


Rings

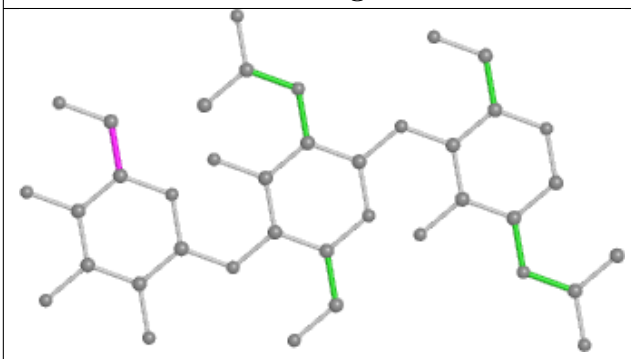
Oligosaccharide Chain D



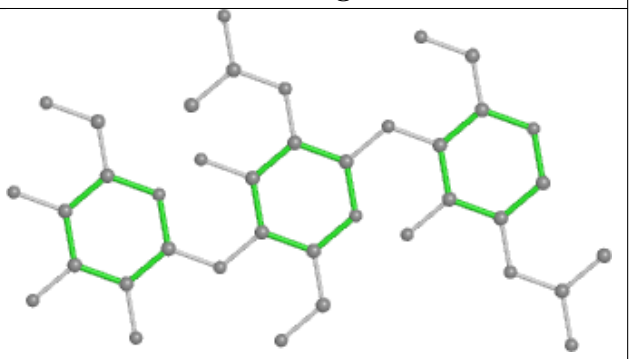
Bond lengths



Bond angles



Torsions



Rings

5.6 Ligand geometry (i)

4 ligands 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	$\#\|Z\| > 2$
4	NAG	B	201	1	14,14,15	0.37	0	17,19,21	1.36	3 (17%)
3	LMR	A	201	-	8,8,8	0.99	0	10,10,10	1.51	2 (20%)
3	LMR	B	203	-	8,8,8	1.05	0	10,10,10	1.47	2 (20%)
5	GOL	B	202	-	5,5,5	0.37	0	5,5,5	0.24	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
4	NAG	B	201	1	-	1/6/23/26	0/1/1/1
3	LMR	A	201	-	-	5/8/8/8	-
3	LMR	B	203	-	-	2/8/8/8	-
5	GOL	B	202	-	-	2/4/4/4	-

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	201	LMR	O1B-C1-C2	3.23	119.81	112.72
3	B	203	LMR	O1B-C1-C2	3.15	119.65	112.72
4	B	201	NAG	C1-O5-C5	3.14	116.45	112.19
4	B	201	NAG	O5-C1-C2	-2.97	106.60	111.29
3	B	203	LMR	O1A-C1-C2	-2.61	117.45	122.54
3	A	201	LMR	O1A-C1-C2	-2.49	117.67	122.54
4	B	201	NAG	C3-C4-C5	2.01	113.83	110.24

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	202	GOL	O1-C1-C2-O2
5	B	202	GOL	O1-C1-C2-C3
4	B	201	NAG	O5-C5-C6-O6
3	B	203	LMR	O1B-C1-C2-C3
3	A	201	LMR	O2-C2-C3-C4
3	A	201	LMR	C1-C2-C3-C4
3	A	201	LMR	O1B-C1-C2-O2
3	A	201	LMR	O1A-C1-C2-C3
3	A	201	LMR	O1B-C1-C2-C3
3	B	203	LMR	O1A-C1-C2-C3

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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	164/188 (87%)	0.39	13 (7%)	12	15	55, 75, 120, 147	0
1	B	165/188 (87%)	0.30	9 (5%)	25	30	52, 72, 110, 155	0
All	All	329/376 (87%)	0.35	22 (6%)	17	21	52, 74, 117, 155	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	47	GLY	4.8
1	A	41	CYS	4.5
1	A	44	LYS	4.1
1	A	56	ASN	3.6
1	A	33	PHE	3.4
1	A	43	ALA	3.1
1	A	36	CYS	3.0
1	A	39	GLN	2.9
1	A	34	LEU	2.7
1	A	59	TRP	2.7
1	A	38	ARG	2.7
1	B	35	ARG	2.5
1	B	59	TRP	2.2
1	A	84	LYS	2.2
1	B	129	MET	2.2
1	B	33	PHE	2.2
1	B	130	PRO	2.2
1	A	35	ARG	2.1
1	A	58	THR	2.1
1	B	58	THR	2.1
1	B	28	LEU	2.0
1	B	82	ASP	2.0

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

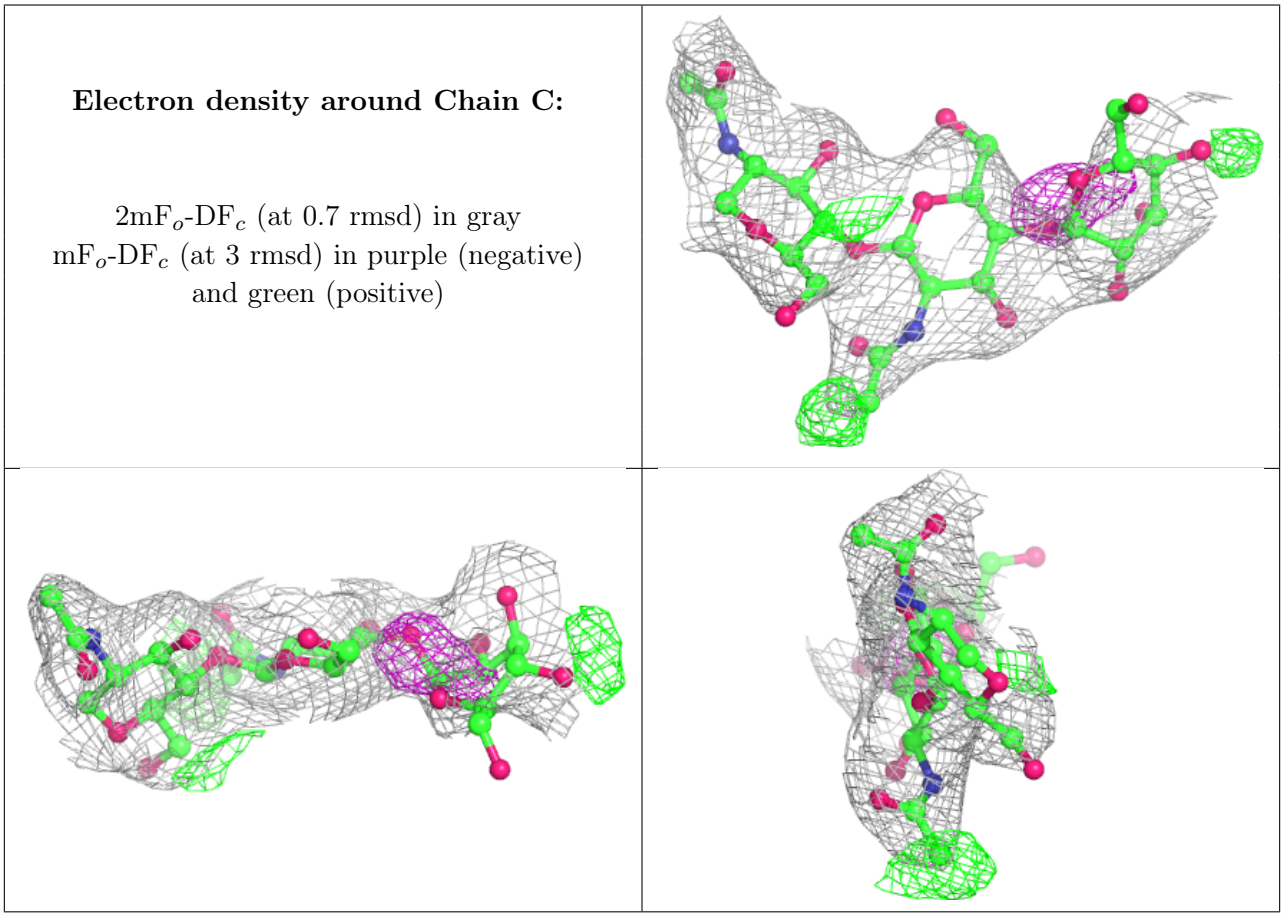
There are no non-standard protein/DNA/RNA residues in this entry.

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, 95^{th} 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.

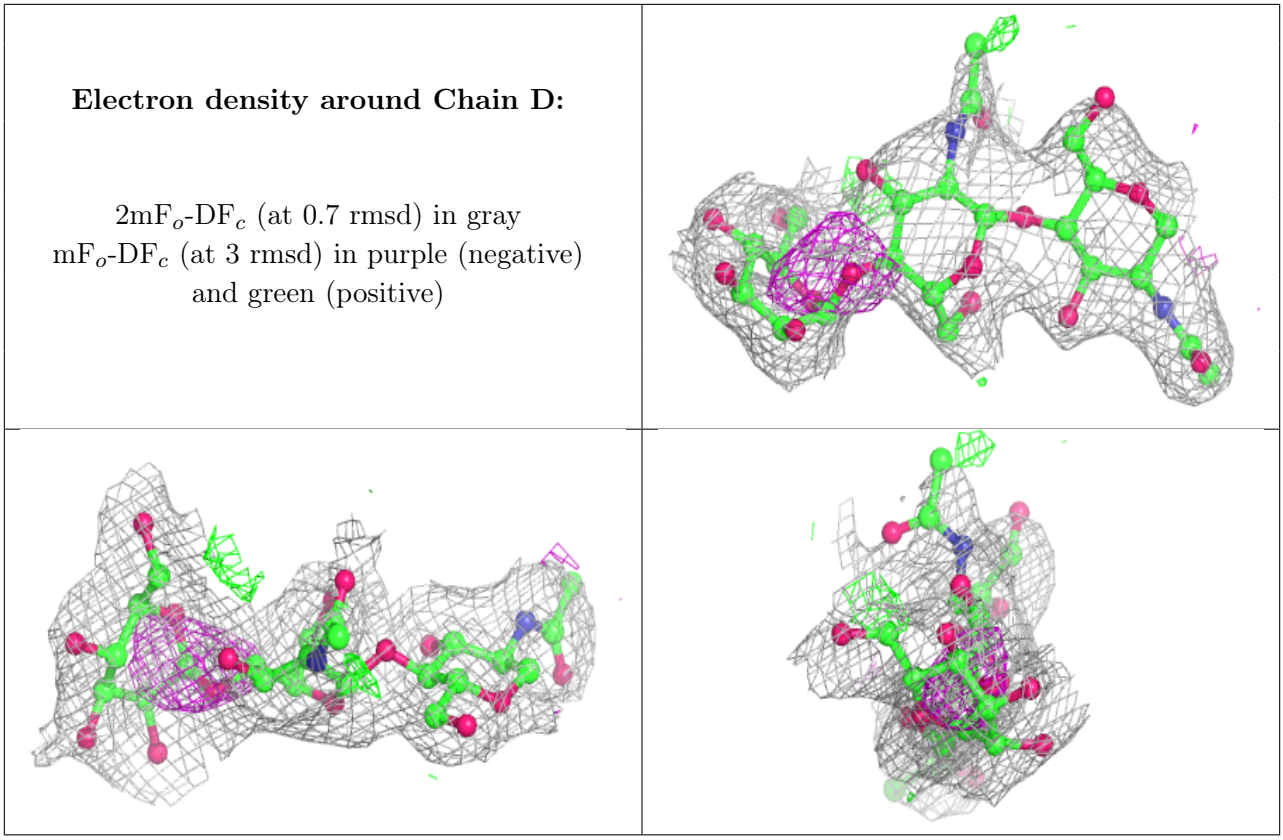
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	BMA	C	3	11/12	0.46	0.33	133,136,140,140	0
2	NAG	D	2	14/15	0.73	0.26	116,123,127,132	0
2	BMA	D	3	11/12	0.75	0.26	128,134,135,135	0
2	NAG	C	2	14/15	0.81	0.21	108,111,119,130	0
2	NAG	D	1	14/15	0.93	0.14	71,83,94,106	0
2	NAG	C	1	14/15	0.96	0.15	74,83,91,98	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.



Electron density around Chain D:

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



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, 95^{th} 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
5	GOL	B	202	6/6	0.68	0.43	95,98,100,101	0
3	LMR	A	201	9/9	0.81	0.35	110,116,119,119	0
4	NAG	B	201	14/15	0.83	0.24	111,119,123,123	0
3	LMR	B	203	9/9	0.89	0.40	91,94,97,99	0

6.5 Other polymers

There are no such residues in this entry.