

# wwPDB X-ray Structure Validation Summary Report (i)

#### Sep 26, 2023 - 04:49 PM EDT

PDB ID	:	6C6F
Title	:	Structure of glycolipid aGSA[26,P5p] in complex with mouse CD1d
Authors	:	Zajonc, D.M.; Wang, J.
Deposited on		
Resolution	:	1.67  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 (i) 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 (1)) were used in the production of this report:

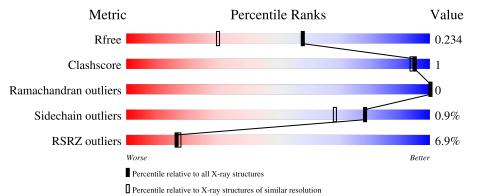
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.35.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber $(2001)$
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.67 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	6780 (1.70-1.66)
Clashscore	141614	7310 (1.70-1.66)
Ramachandran outliers	138981	7173 (1.70-1.66)
Sidechain outliers	138945	7172 (1.70-1.66)
RSRZ outliers	127900	6661 (1.70-1.66)

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	А	285	8%	• 8%
2	В	99	<sup>2%</sup> 97%	••
3	С	6	67%	33%



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 3354 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 Antigen-presenting glycoprotein CD1d1.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	263	Total 2133	C 1362	N 365	O 392	S 14	0	2	0

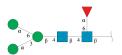
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	280	HIS	-	expression tag	UNP A0A0R4J090
А	281	HIS	-	expression tag	UNP A0A0R4J090
А	282	HIS	-	expression tag	UNP A0A0R4J090
A	283	HIS	-	expression tag	UNP A0A0R4J090
А	284	HIS	-	expression tag	UNP A0A0R4J090
А	285	HIS	-	expression tag	UNP A0A0R4J090

• Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	98	Total 802	C 511	N 135	0 149	S 7	0	0	0

• Molecule 3 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyran ose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[al pha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.

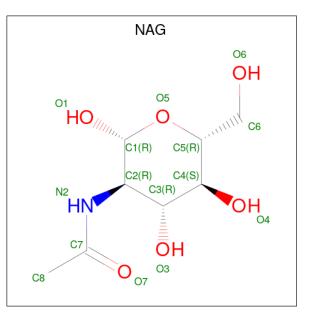


Mol	Chain	Residues	A	Aton	ns		ZeroOcc	AltConf	Trace
3	С	6	Total 71	C 40	N 2	O 29	0	0	0

• Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula:

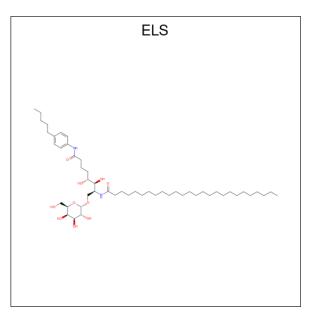


 $C_8H_{15}NO_6$ ).



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

• Molecule 5 is N-[(2S,3S,4R)-3,4-dihydroxy-8-oxo-8-[(4-pentylphenyl)amino]-1-{[(2S,3R,4S,5 R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetr ahydro-2H-pyran-2-yl]oxy}octan-2-yl]hexaco sanamide (three-letter code: ELS) (formula:  $C_{51}H_{92}N_2O_{10}$ ).





Mol	Chain	Residues	A	Ator.	ns		ZeroOcc	AltConf
5	Δ	1	Total	С	Ν	0	0	0
0	11	1	63	51	2	10	0	0

• Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	2	Total Na 2 2	0	0

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	187	Total O 187 187	0	0
7	В	68	Total         O           68         68	0	0



# 3 Residue-property plots (i)

• Molecule 1: Antigen-presenting glycoprotein CD1d1

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.

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 $\label{eq:mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]} beta-D-mannopyranose-(1-6)] beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)] 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)] beta-D-mannopyranose-(1-6)] beta-D-manno$ 

Chain C:

67%

33%





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	41.63Å 98.48Å 55.43Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $106.21^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	32.00 - 1.67	Depositor
Resolution (A)	31.03 - 1.67	EDS
% Data completeness	96.0 (32.00-1.67)	Depositor
(in resolution range)	96.1 (31.03 - 1.67)	EDS
R <sub>merge</sub>	0.04	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$4.40 (at 1.67 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
D D.	0.196 , $0.222$	Depositor
$R, R_{free}$	0.205 , $0.234$	DCC
$R_{free}$ test set	1454 reflections $(3.06\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	26.2	Xtriage
Anisotropy	0.057	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.38 , $46.6$	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3354	wwPDB-VP
Average B, all atoms $(Å^2)$	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.32% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: MAN, NA, FUC, NAG, ELS, 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
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.43	0/2196	0.65	0/2982
2	В	0.44	0/828	0.67	0/1125
All	All	0.43	0/3024	0.65	0/4107

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	А	2133	0	2039	6	0
2	В	802	0	761	1	0
3	С	71	0	61	0	0
4	А	28	0	26	0	0
5	А	63	0	0	0	0
6	А	2	0	0	0	0
7	А	187	0	0	1	0
7	В	68	0	0	1	0
All	All	3354	0	2887	7	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:67:HIS:HD2	7:B:133:HOH:O	1.89	0.54
1:A:215:PRO:O	1:A:267:HIS:HE1	1.93	0.52
1:A:267:HIS:HD2	1:A:269:SER:OG	1.93	0.51
1:A:196:VAL:HG22	7:A:444:HOH:O	2.15	0.45
1:A:104:CYS:HG	1:A:168:CYS:HG	0.54	0.43

The worst 5 of 7 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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	Perce	ntiles
1	А	259/285~(91%)	257~(99%)	2(1%)	0	100	100
2	В	96/99~(97%)	94~(98%)	2(2%)	0	100	100
All	All	355/384~(92%)	351~(99%)	4 (1%)	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	А	232/249~(93%)	230~(99%)	2(1%)	78 69

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Conti	nuea jron	<i>i previous page</i>				
Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	В	90/93~(97%)	89~(99%)	1 (1%)	73 61	
All	All	322/342~(94%)	319~(99%)	3(1%)	78 69	

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

Mol	Chain	Res	Type
1	А	15	MET
1	А	93	ASP
2	В	70	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	7	ASN
1	А	14	GLN
1	А	62	GLN
1	А	267	HIS
2	В	67	HIS

#### 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).



Mal	Mol Type Chain		Res	Link	Bo	ond leng	$\mathbf{ths}$	Bond angles		
10101	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	NAG	С	1	1,3	$14,\!14,\!15$	0.39	0	17,19,21	1.06	1 (5%)
3	NAG	С	2	3	14,14,15	0.41	0	17,19,21	0.79	0
3	BMA	С	3	3	11,11,12	0.44	0	15,15,17	0.60	0
3	MAN	С	4	3	$11,\!11,\!12$	0.33	0	$15,\!15,\!17$	0.80	1 (6%)
3	MAN	С	5	3	11,11,12	0.27	0	15,15,17	0.71	0
3	FUC	С	6	3	10,10,11	0.57	0	14,14,16	0.79	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	С	1	1,3	-	0/6/23/26	0/1/1/1
3	NAG	С	2	3	-	1/6/23/26	0/1/1/1
3	BMA	С	3	3	-	0/2/19/22	0/1/1/1
3	MAN	С	4	3	-	0/2/19/22	0/1/1/1
3	MAN	С	5	3	-	0/2/19/22	0/1/1/1
3	FUC	С	6	3	-	-	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	С	4	MAN	C1-O5-C5	2.59	115.70	112.19
3	С	1	NAG	O5-C5-C6	2.24	110.72	107.20

There are no chirality outliers.

All (1) torsion outliers are listed below:

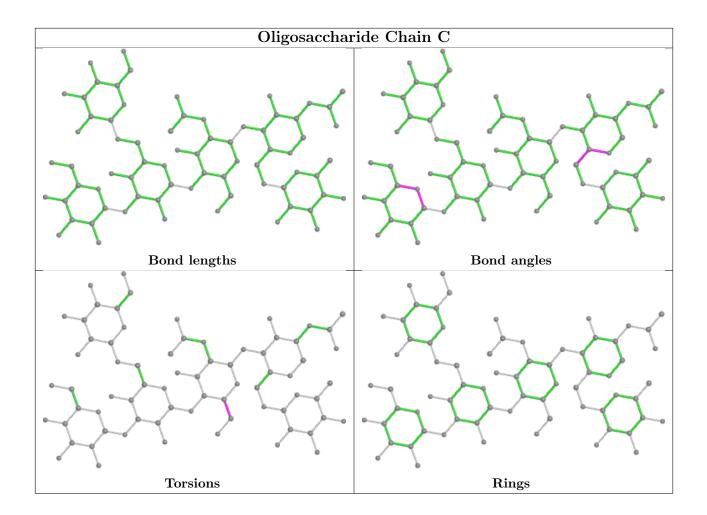
Mol	Chain	Res	Type	Atoms
3	С	2	NAG	O5-C5-C6-O6

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.





## 5.6 Ligand geometry (i)

Of 5 ligands modelled in this entry, 2 are monoatomic - leaving 3 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).

Mal	Mol Type Chain Res	Res	es Link	Bo	ond leng	$_{\rm ths}$	Bond angles			
IVIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
4	NAG	А	302	1	14,14,15	0.24	0	17,19,21	0.77	0
4	NAG	А	301	1	14,14,15	0.34	0	17,19,21	0.75	0
5	ELS	А	309	-	64,64,64	0.98	3 (4%)	73,77,77	0.76	1 (1%)

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.



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	А	302	1	-	0/6/23/26	0/1/1/1
4	NAG	А	301	1	-	0/6/23/26	0/1/1/1
5	ELS	А	309	-	-	16/59/79/79	0/2/2/2

'-' means no outliers of that kind were identified.

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
5	А	309	ELS	C8-C15	-4.17	1.39	1.51
5	А	309	ELS	C18-N1	-3.23	1.35	1.41
5	А	309	ELS	OC1-CG1	2.72	1.44	1.40

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
5	А	309	ELS	C18-N1-C7	-2.14	123.76	127.50

There are no chirality outliers.

5 of 16 torsion outliers are listed below:

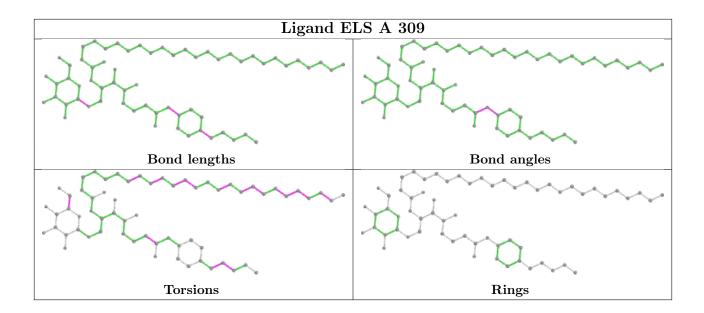
Mol	Chain	Res	Type	Atoms
5	А	309	ELS	C28-C29-C44-C31
5	А	309	ELS	C27-C28-C29-C44
5	А	309	ELS	C15-C8-C9-C10
5	А	309	ELS	C38-C39-C40-C41
5	А	309	ELS	C23-C24-C25-C26

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 all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





### 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,  $95^{th}$  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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	263/285~(92%)	0.41	23 (8%) 10 10	18, 29, 57, 79	0
2	В	98/99~(98%)	0.19	2 (2%) 65 69	18, 28, 43, 52	0
All	All	361/384~(94%)	0.35	25 (6%) 16 17	18, 29, 53, 79	0

The worst 5 of 25 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	255	ALA	6.5
1	А	203	HIS	6.1
1	А	253	VAL	4.8
1	А	256	GLY	4.3
1	А	196	VAL	4.3

## 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
3	MAN	С	4	11/12	0.75	0.33	$52,\!55,\!58,\!59$	0
3	MAN	С	5	11/12	0.84	0.23	37,39,42,42	0
3	BMA	С	3	11/12	0.85	0.18	35,36,41,45	0
3	FUC	С	6	10/11	0.90	0.10	29,30,32,33	0
3	NAG	С	2	14/15	0.92	0.12	30,32,34,35	0

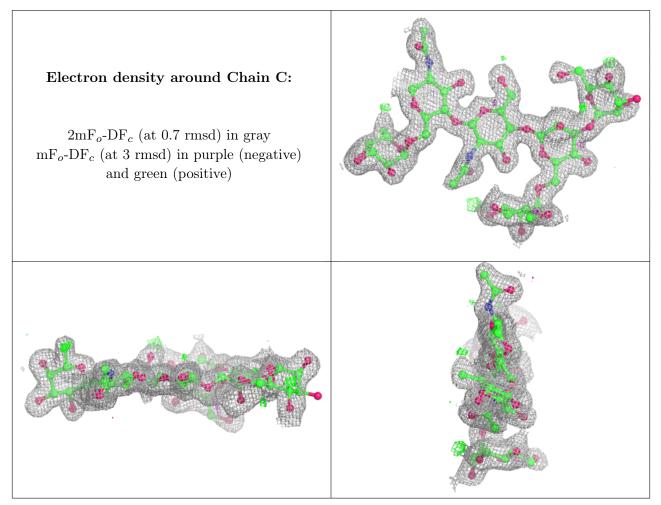
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	NAG	С	1	14/15	0.95	0.06	24,26,28,28	0

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,  $95^{th}$  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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
5	ELS	А	309	63/63	0.82	0.16	$30,\!43,\!54,\!55$	0
4	NAG	А	301	14/15	0.85	0.28	54,56,62,63	0
4	NAG	А	302	14/15	0.91	0.12	34,38,41,42	0
6	NA	А	311	1/1	0.95	0.08	33,33,33,33	0

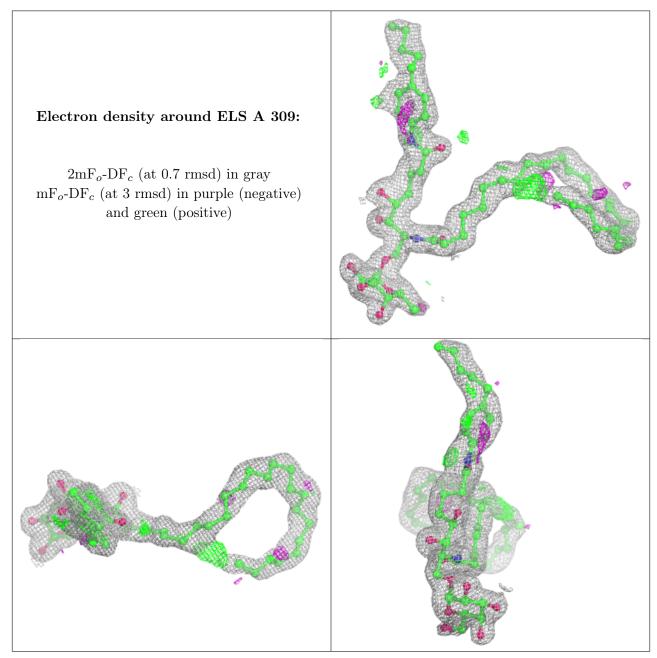
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
6	NA	А	310	1/1	0.99	0.07	29,29,29,29	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



## 6.5 Other polymers (i)

There are no such residues in this entry.

