

wwPDB X-ray Structure Validation Summary Report (i)

Sep 26, 2023 – 03:30 PM EDT

PDB ID : 6CPN

Title : Crystal structure of DR11 presenting the RQ13 peptide

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Deposited on : 2018-03-13

Resolution : 2.00 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 (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 EDS : 2.35.1

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

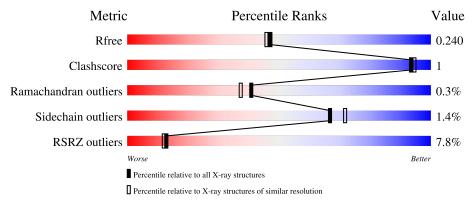
Validation Pipeline (wwPDB-VP) : 2.35.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.00 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}({\rm \AA})) \end{array}$
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 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	182	7% 96%	•
2	В	190	94%	6% •
3	С	13	92%	8%
4	D	2	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	NAG	В	201	-	-	-	X



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 3489 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 HLA class II histocompatibility antigen, DR alpha chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	182	Total	С	N	О	S	0	4	0
1	11	102	1521	986	243	287	5			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	182	THR	ALA	conflict	UNP P01903

• Molecule 2 is a protein called HLA class II histocompatibility antigen, DRB1-11 beta chain.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	189	Total 1567	C 988	N 277	O 297	S 5	0	0	0

• Molecule 3 is a protein called Gag polyprotein.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
3	С	13	Total 113		N 22	O 21	0	0	0

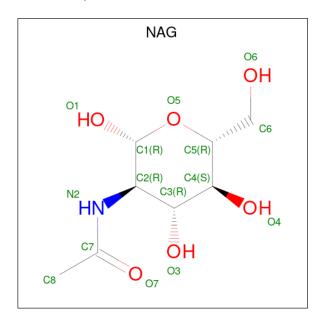
• Molecule 4 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-a cetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	A	A ton	ns		ZeroOcc	AltConf	Trace
4	D	2	Total 28	C 16	N 2	O 10	0	0	0

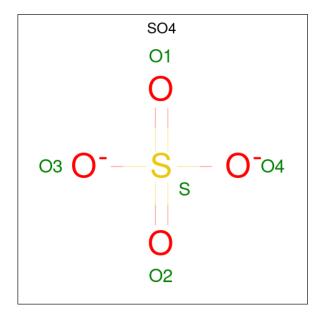


 \bullet Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $\rm C_8H_{15}NO_6).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C N O 14 8 1 5	0	0
5	В	1	Total C N O 14 8 1 5	0	0

• Molecule 6 is SULFATE ION (three-letter code: SO4) (formula: O_4S).





Mol	Chain	Residues	Ato	oms		ZeroOcc	AltConf	
6	A	1	Total	О	S	0	0	
0	A	1	5	4	1	0	U	
6	A	1	Total	О	S	0	0	
0	A	1	5	4	1	0	U	
6	A	1	Total	О	S	0	0	
0	A	1	5	4	1	0	U	
6	A	1	Total	О	S	0	0	
0	Λ	1	5	4	1	0	U	
6	A	1	Total	О	S	0	0	
0	Λ	1	5	4	1	0	0	
6	В	1	Total	О	S	0	0	
0	Ъ	1	5	4	1	0	U	
6	В	1	Total	О	S	0	0	
0	Б	1	5	4	1	U	U	
6	С	1	Total	О	S	0	0	
0		1	5	4	1	U	0	

 \bullet Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total Na 1 1	0	0
7	В	1	Total Na 1 1	0	0
7	С	1	Total Na 1 1	0	0

• Molecule 8 is water.

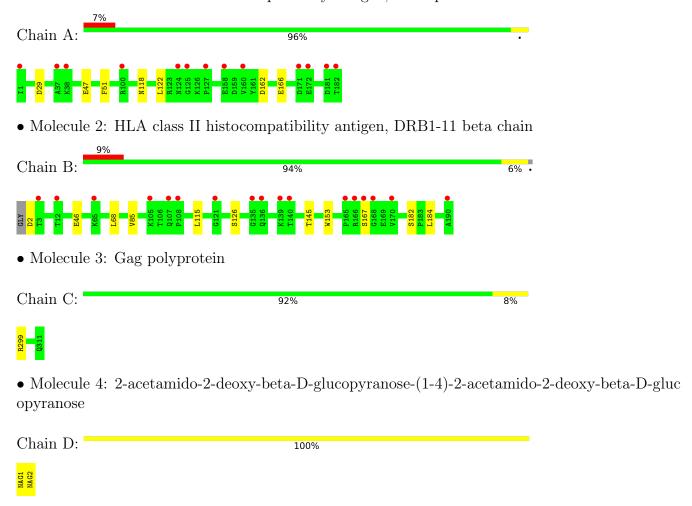
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	97	Total O 97 97	0	0
8	В	78	Total O 78 78	0	0
8	С	14	Total O 14 14	0	0



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: HLA class II histocompatibility antigen, DR alpha chain





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 1 2	Depositor
Cell constants	66.26Å 66.26Å 221.41Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.06 - 2.00	Depositor
rtesolution (A)	35.06 - 2.00	EDS
% Data completeness	100.0 (35.06-2.00)	Depositor
(in resolution range)	100.0 (35.06-2.00)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.85 (at 2.00Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
υ .	0.208 , 0.236	Depositor
R, R_{free}	0.210 , 0.240	DCC
R_{free} test set	1908 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	35.2	Xtriage
Anisotropy	0.114	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 50.4	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.048 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3489	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.98% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities 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: SO4, NAG, NA

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		
MIOI	ioi Chain RM		# Z > 5	RMSZ	# Z > 5	
1	A	0.53	0/1578	0.68	0/2151	
2	В	0.51	0/1612	0.67	0/2191	
3	С	0.54	0/114	0.67	0/149	
All	All	0.52	0/3304	0.68	0/4491	

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	1521	0	1463	4	0
2	В	1567	0	1463	5	0
3	С	113	0	111	1	0
4	D	28	0	25	0	0
5	A	14	0	13	0	0
5	В	14	0	13	0	0
6	A	25	0	0	0	0
6	В	10	0	0	0	0
6	С	5	0	0	0	0
7	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
7	В	1	0	0	0	0
7	С	1	0	0	0	0
8	A	97	0	0	0	0
8	В	78	0	0	1	0
8	С	14	0	0	0	0
All	All	3489	0	3088	8	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.

The worst 5 of 8 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned} \operatorname{Clash} \ \operatorname{overlap}\ (\mathring{\mathbf{A}}) \end{aligned}$
1:A:118:ASN:HB2	1:A:166:GLU:HB2	1.88	0.54
1:A:122:LEU:HB2	1:A:162:ASP:HB2	1.89	0.53
2:B:184:LEU:HD13	8:B:355:HOH:O	2.12	0.50
1:A:29:ASP:HB3	2:B:153:TRP:CE2	2.50	0.46
2:B:85:VAL:HG22	3:C:299:ARG:HB3	1.99	0.44

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	A	184/182 (101%)	181 (98%)	3 (2%)	0	100	100
2	В	187/190 (98%)	182 (97%)	4 (2%)	1 (0%)	29	23
3	С	11/13 (85%)	11 (100%)	0	0	100	100
All	All	382/385 (99%)	374 (98%)	7 (2%)	1 (0%)	41	37

All (1) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
2	В	167	SER

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	171/167 (102%)	169 (99%)	2 (1%)	71	76	
2	В	173/173 (100%)	169 (98%)	4 (2%)	50	53	
3	С	11/11 (100%)	11 (100%)	0	100	100	
All	All	355/351 (101%)	349 (98%)	6 (2%)	67	65	

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	В	126	SER
2	В	145	THR
2	В	182	SER
1	A	47[B]	GLU
1	A	47[A]	GLU

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)

2 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	Trme	Chain	Dag	Link	Bo	ond leng	ths	В	ond ang	les
MIOI	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAG	D	1	1,4	14,14,15	1.96	5 (35%)	17,19,21	2.43	7 (41%)
4	NAG	D	2	4	14,14,15	1.89	4 (28%)	17,19,21	2.22	7 (41%)

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	D	1	1,4	-	1/6/23/26	0/1/1/1
4	NAG	D	2	4	-	0/6/23/26	0/1/1/1

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
4	D	1	NAG	O5-C1	4.59	1.51	1.43
4	D	2	NAG	O5-C1	4.48	1.50	1.43
4	D	2	NAG	C7-N2	3.27	1.45	1.34
4	D	1	NAG	C7-N2	2.93	1.44	1.34
4	D	1	NAG	C3-C2	-2.40	1.47	1.52

The worst 5 of 14 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
4	D	1	NAG	O4-C4-C3	-5.17	98.39	110.35
4	D	1	NAG	C4-C3-C2	4.33	117.37	111.02
4	D	2	NAG	C3-C4-C5	4.13	117.60	110.24
4	D	1	NAG	C1-O5-C5	3.93	117.52	112.19
4	D	1	NAG	C1-C2-N2	-3.72	104.14	110.49

There are no chirality outliers.

All (1) torsion outliers are listed below:

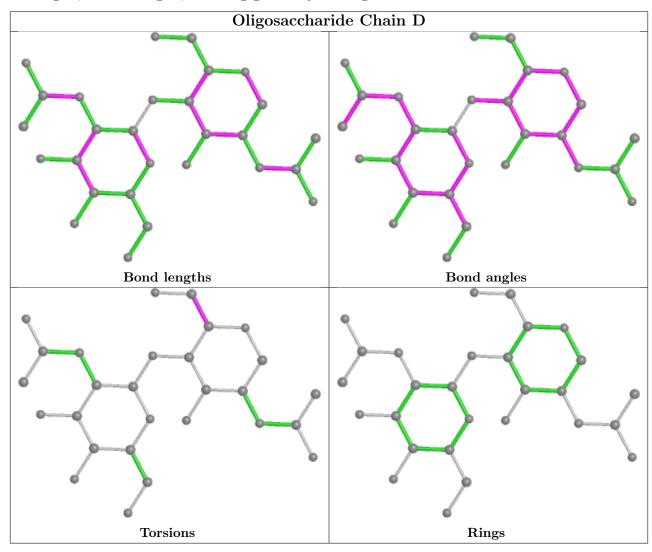


Mol	Chain	Res	Type	Atoms
4	D	1	NAG	C4-C5-C6-O6

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 13 ligands modelled in this entry, 3 are monoatomic - leaving 10 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	Bo	ond leng	ths	В	ond ang	les
WIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	NAG	A	1001	1	14,14,15	1.89	2 (14%)	17,19,21	1.47	1 (5%)
6	SO4	В	203	7	4,4,4	0.16	0	6,6,6	0.06	0
6	SO4	В	202	_	4,4,4	0.16	0	6,6,6	0.20	0
6	SO4	A	1004	7	4,4,4	0.25	0	6,6,6	0.18	0
6	SO4	A	1009	-	4,4,4	0.23	0	6,6,6	0.12	0
6	SO4	A	1005	_	4,4,4	0.16	0	6,6,6	0.05	0
5	NAG	В	201	2	14,14,15	2.00	4 (28%)	17,19,21	2.12	6 (35%)
6	SO4	A	1006	_	4,4,4	0.11	0	6,6,6	0.21	0
6	SO4	С	401	7	4,4,4	0.16	0	6,6,6	0.07	0
6	SO4	A	1007	-	4,4,4	0.17	0	6,6,6	0.27	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
5	NAG	В	201	2	-	1/6/23/26	0/1/1/1
5	NAG	A	1001	1	-	1/6/23/26	0/1/1/1

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

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
5	В	201	NAG	O5-C1	5.13	1.51	1.43
5	A	1001	NAG	O5-C1	4.68	1.51	1.43
5	A	1001	NAG	C7-N2	3.31	1.45	1.34
5	В	201	NAG	C7-N2	3.26	1.45	1.34
5	В	201	NAG	C4-C3	-2.17	1.46	1.52

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
5	В	201	NAG	O5-C5-C6	4.42	114.14	107.20
5	В	201	NAG	C1-O5-C5	4.06	117.69	112.19
5	A	1001	NAG	O5-C5-C6	3.55	112.77	107.20
5	В	201	NAG	C3-C4-C5	3.24	116.01	110.24
5	В	201	NAG	O5-C5-C4	2.70	117.40	110.83



There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	В	201	NAG	O5-C5-C6-O6
5	A	1001	NAG	C4-C5-C6-O6

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, 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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	182/182 (100%)	0.26	13 (7%) 16 15	23, 36, 62, 90	1 (0%)
2	В	189/190 (99%)	0.32	17 (8%) 9 8	23, 37, 72, 86	0
3	С	13/13 (100%)	-0.24	0 100 100	29, 34, 51, 54	0
All	All	384/385 (99%)	0.27	30 (7%) 13 12	23, 37, 66, 90	1 (0%)

The worst 5 of 30 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	167	SER	8.5
2	В	168	GLY	7.8
1	A	1	ILE	4.2
1	A	182	THR	4.0
2	В	165	PRO	3.6

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)

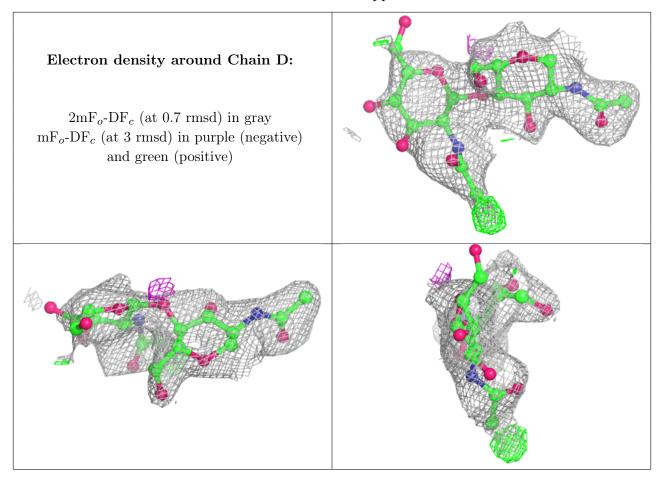
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
4	NAG	D	2	14/15	0.76	0.39	86,91,94,95	0
4	NAG	D	1	14/15	0.80	0.21	43,66,73,80	0

The following is a graphical depiction of the model fit to experimental electron density for oligosac-



charide. 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	$ extbf{B-factors}(extbf{\AA}^2)$	Q<0.9
7	NA	В	204	1/1	0.68	0.17	70,70,70,70	0
5	NAG	A	1001	14/15	0.69	0.36	77,80,82,83	0
7	NA	A	1008	1/1	0.75	0.36	71,71,71,71	0
6	SO4	A	1009	5/5	0.76	0.24	115,116,116,116	0
5	NAG	В	201	14/15	0.77	0.41	89,93,94,94	0
7	NA	С	402	1/1	0.79	0.09	61,61,61,61	0
6	SO4	С	401	5/5	0.82	0.31	127,128,128,128	0
6	SO4	В	202	5/5	0.87	0.17	83,86,88,88	0
6	SO4	A	1006	5/5	0.88	0.31	95,95,96,97	0
6	SO4	A	1007	5/5	0.88	0.33	67,70,72,75	0
6	SO4	A	1005	5/5	0.89	0.22	133,133,133,133	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q<0.9
6	SO4	В	203	5/5	0.95	0.09	104,104,105,105	0
6	SO4	A	1004	5/5	0.96	0.10	65,65,67,70	0

6.5 Other polymers (i)

There are no such residues in this entry.

