

Full wwPDB X-ray Structure Validation Report (i)

Nov 13, 2023 – 10:34 PM JST

PDB ID : 5Y96

Title : Crystal structure of ANXUR1 extracellular domain from Arabidopsis thaliana

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Deposited on : 2017-08-22

Resolution : 1.80 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 (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 : 2.36

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

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)
roteins) : Engh & Huber (2001

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

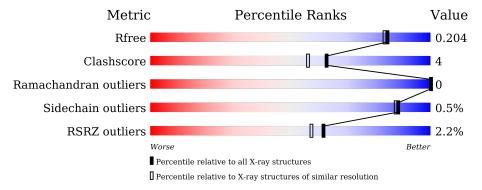
Validation Pipeline (wwPDB-VP) : 2.36

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 1.80 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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	384	91%	8%	
2	В	383	90%	10%	_
3	С	2	100%		_
3	D	2	100%		_



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 6958 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 Receptor-like protein kinase ANXUR1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	381	Total	С	N	О	S	0	0	0
1	A	301	2996	1912	485	586	13		U	

• Molecule 2 is a protein called Receptor-like protein kinase ANXUR1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	383	Total 3007	C 1917	N 488	O 589	S 13	0	0	0

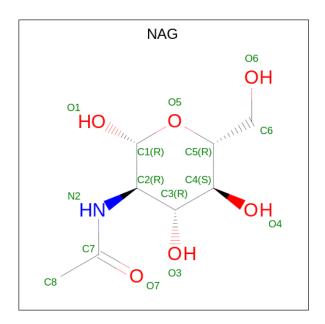
• Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-a cetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
3	С	9	Total	С	N	О	0	0	0
3			28	16	2	10	0	U	U
9	D	9	Total	С	N	О	0	0	0
3	D	2	28	16	2	10	0	U	U

• 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	A	1	Total C N O 14 8 1 5	0	0
4	A	1	Total C N O 14 8 1 5	0	0
4	A	1	Total C N O 14 8 1 5	0	0
4	В	1	Total C N O 14 8 1 5	0	0
4	В	1	Total C N O 14 8 1 5	0	0

• Molecule 5 is water.

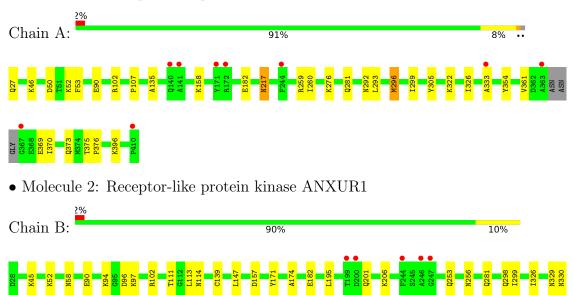
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	387	Total O 387 387	0	0
5	В	442	Total O 442 442	0	0



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: Receptor-like protein kinase ANXUR1





• Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain C:



• Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain D:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	54.68Å 68.74Å 70.33Å	Donositon
a, b, c, α , β , γ	88.95° 75.00° 72.18°	Depositor
Resolution (Å)	43.34 - 1.80	Depositor
resolution (A)	43.34 - 1.80	EDS
% Data completeness	96.3 (43.34-1.80)	Depositor
(in resolution range)	95.1 (43.34-1.80)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	9.08 (at 1.79Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
Ρ. Р.	0.182 , 0.204	Depositor
R, R_{free}	0.182 , 0.204	DCC
R_{free} test set	2743 reflections (3.27%)	wwPDB-VP
Wilson B-factor (Å ²)	19.7	Xtriage
Anisotropy	0.477	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 46.8	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.008 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6958	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.48% 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: 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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.26	0/3067	0.48	0/4172	
2	В	0.27	0/3079	0.47	0/4190	
All	All	0.27	0/6146	0.48	0/8362	

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	2996	0	2907	23	0
2	В	3007	0	2919	28	0
3	С	28	0	25	0	0
3	D	28	0	25	0	0
4	A	42	0	39	1	0
4	В	28	0	26	1	0
5	A	387	0	0	11	1
5	В	442	0	0	13	1
All	All	6958	0	5941	52	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 4.



All (52) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

		Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
2:B:195:LEU:HD12	2:B:201:GLN:HG2	1.50	0.94
2:B:401:LYS:NZ	5:B:602:HOH:O	2.06	0.87
2:B:114:ASN:ND2	5:B:603:HOH:O	2.11	0.82
2:B:114:ASN:ND2	5:B:606:HOH:O	2.16	0.79
1:A:90:GLU:OE1	5:A:602:HOH:O	2.01	0.77
1:A:260:ILE:HD11	1:A:276:LYS:HG3	1.69	0.72
2:B:206:LYS:NZ	5:B:609:HOH:O	2.23	0.71
2:B:97:LYS:NZ	5:B:611:HOH:O	2.25	0.69
2:B:299:ILE:HD12	2:B:299:ILE:C	2.14	0.68
5:A:603:HOH:O	2:B:90:GLU:OE2	2.15	0.65
2:B:157:ASP:OD1	5:B:604:HOH:O	2.14	0.65
2:B:256:ASN:OD1	5:B:605:HOH:O	2.15	0.64
1:A:46:LYS:NZ	5:A:614:HOH:O	2.32	0.61
1:A:102:ARG:HB2	1:A:182:GLU:HB2	1.84	0.60
1:A:50:ASP:OD1	5:A:604:HOH:O	2.17	0.59
1:A:217:ASN:ND2	5:A:615:HOH:O	2.36	0.59
2:B:253:GLN:NE2	5:B:622:HOH:O	2.35	0.59
1:A:326:ILE:HB	1:A:333:ALA:O	2.04	0.57
1:A:259:ARG:NH2	5:A:603:HOH:O	2.11	0.57
2:B:102:ARG:HB2	2:B:182:GLU:HB2	1.88	0.55
4:B:504:NAG:O6	5:B:607:HOH:O	2.18	0.54
2:B:139:CYS:SG	2:B:147:LEU:HG	2.48	0.53
2:B:326:ILE:HB	2:B:333:ALA:O	2.09	0.53
1:A:299:ILE:HD11	1:A:361:VAL:HG11	1.91	0.52
1:A:299:ILE:HG12	1:A:370:ILE:HG13	1.92	0.52
4:A:501:NAG:O3	5:A:601:HOH:O	2.01	0.51
1:A:27:GLN:N	5:A:625:HOH:O	2.44	0.50
2:B:171:TYR:HB2	2:B:174:ALA:HB2	1.94	0.49
2:B:58:ASN:ND2	5:B:601:HOH:O	2.01	0.49
2:B:329:ASN:ND2	2:B:365:ASN:O	2.48	0.47
1:A:354:TYR:OH	5:A:606:HOH:O	2.20	0.46
2:B:402:ASN:ND2	2:B:404:ALA:H	2.14	0.46
1:A:369:GLU:HG3	5:A:686:HOH:O	2.16	0.45
1:A:292:ASN:OD1	1:A:375:THR:HB	2.17	0.45
2:B:94:LYS:HG2	2:B:96:ASP:OD1	2.17	0.45
2:B:111:THR:HG22	5:B:677:HOH:O	2.16	0.44
1:A:305:TYR:CE2	1:A:396:LYS:HB2	2.52	0.44
2:B:330:ASN:O	2:B:331:ARG:NE	2.51	0.44
2:B:299:ILE:C	2:B:299:ILE:CD1	2.82	0.43
2:B:348:GLU:HA	5:B:628:HOH:O	2.18	0.43

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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
2:B:195:LEU:HD23	2:B:358:ALA:HB3	1.99	0.43
1:A:259:ARG:NH1	2:B:52:LYS:O	2.53	0.42
1:A:107:PRO:HG3	1:A:135:ALA:HB1	2.02	0.42
2:B:45:LYS:NZ	2:B:182:GLU:OE2	2.39	0.42
2:B:298:GLN:HB3	5:B:751:HOH:O	2.20	0.41
1:A:52:LYS:HE3	1:A:53:PHE:CE2	2.56	0.41
1:A:296:MET:HE2	1:A:296:MET:HB2	1.92	0.41
1:A:158:LYS:HB3	1:A:158:LYS:HZ3	1.86	0.41
1:A:281:GLN:OE1	1:A:376:PRO:HD3	2.21	0.41
1:A:293:LEU:O	1:A:373:GLN:HA	2.20	0.41
1:A:322:LYS:NZ	5:A:644:HOH:O	2.53	0.41
2:B:281:GLN:OE1	2:B:376:PRO:HD3	2.22	0.40

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	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$	
5:A:646:HOH:O	5:B:681:HOH:O[1_655]	2.01	0.19	

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	entiles	
1	A	377/384 (98%)	369 (98%)	8 (2%)	0	100	100
2	В	381/383 (100%)	366 (96%)	15 (4%)	0	100	100
All	All	758/767 (99%)	735 (97%)	23 (3%)	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	$327/329 \ (99\%)$	325 (99%)	2 (1%)		86	84	
2	В	328/328 (100%)	327 (100%)	1 (0%)		92	91	
All	All	655/657 (100%)	652 (100%)	3 (0%)		88	87	

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

Mol	Chain	Res	Type
1	A	217	ASN
1	A	296	MET
2	В	113	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	217	ASN
1	A	288	ASN
2	В	201	GLN
2	В	402	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)

4 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	Tuno	e Chain Res Link			Bo	nd leng	$ ag{ths}$	Bond angles			
MIOI	Type	Cham	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	NAG	С	1	3,1	14,14,15	0.40	0	17,19,21	0.38	0	
3	NAG	С	2	3	14,14,15	0.34	0	17,19,21	0.34	0	
3	NAG	D	1	3,2	14,14,15	0.40	0	17,19,21	0.35	0	
3	NAG	D	2	3	14,14,15	0.35	0	17,19,21	0.35	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	3,1	-	0/6/23/26	0/1/1/1
3	NAG	С	2	3	-	2/6/23/26	0/1/1/1
3	NAG	D	1	3,2	-	0/6/23/26	0/1/1/1
3	NAG	D	2	3	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

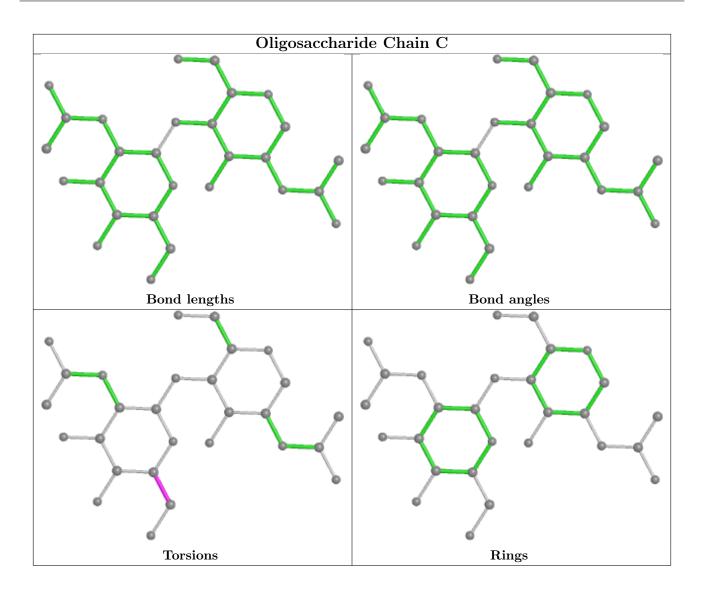
Mol	Chain	Res	Type	Atoms
3	С	2	NAG	O5-C5-C6-O6
3	С	2	NAG	C4-C5-C6-O6

There are no ring outliers.

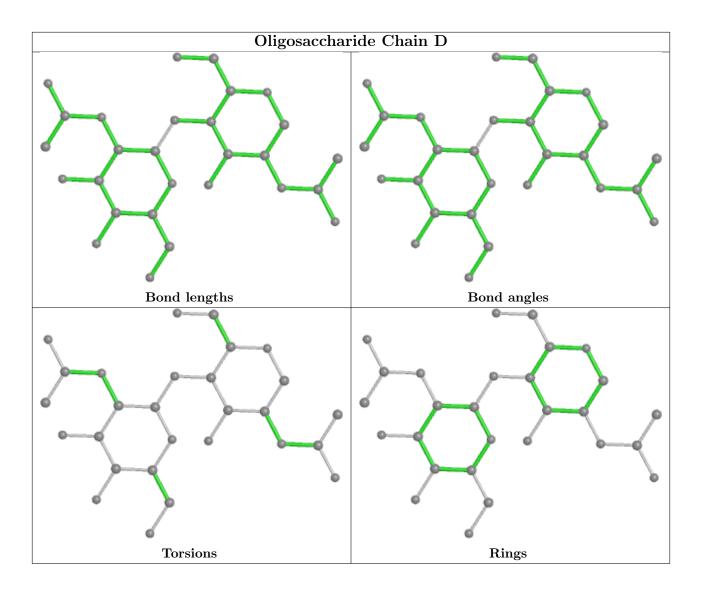
No monomer is involved in short contacts.

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)

5 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	Mol Type Chain Res Lin		Link	Во	ond leng	ths	Bond angles			
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAG	A	504	1	14,14,15	0.30	0	17,19,21	0.34	0
4	NAG	В	503	2	14,14,15	0.25	0	17,19,21	0.49	0
4	NAG	A	505	1	14,14,15	0.29	0	17,19,21	0.36	0
4	NAG	A	501	1	14,14,15	0.24	0	17,19,21	0.43	0



7	/Iol	Type	Chain	Res	Link	Bo	ond leng	$ ag{ths}$	В	ond ang	les
10	101	туре	Chain	rtes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	4	NAG	В	504	2	14,14,15	0.43	0	17,19,21	0.38	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	A	504	1	-	2/6/23/26	0/1/1/1
4	NAG	В	503	2	-	0/6/23/26	0/1/1/1
4	NAG	A	505	1	-	0/6/23/26	0/1/1/1
4	NAG	A	501	1	-	1/6/23/26	0/1/1/1
4	NAG	В	504	2	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	501	NAG	O5-C5-C6-O6
4	A	504	NAG	C4-C5-C6-O6
4	A	504	NAG	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 2 short contacts:

\mathbf{Mol}	Chain	Res	Type	Clashes	Symm-Clashes
4	A	501	NAG	1	0
4	В	504	NAG	1	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, 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	$\begin{array}{c cccc} \textbf{Analysed} & <& RSRZ> & \#RSRZ>2 \\ \end{array}$		$OWAB(A^2)$	Q < 0.9	
1	A	381/384 (99%)	-0.22	9 (2%) 59 54	15, 25, 46, 65	0
2	В	383/383 (100%)	-0.23	8 (2%) 63 59	16, 25, 49, 72	0
All	All	764/767 (99%)	-0.22	17 (2%) 62 57	15, 25, 48, 72	0

All (17) RSRZ outliers are listed below:

Mol	Mol Chain		Type	RSRZ
2	2 B		PHE	5.0
2	В	199	THR	4.6
1	A	172	ARG	4.5
2	В	200	ASP	3.6
1	A	141	ALA	2.9
2	В	409	GLU	2.8
1	A	140	GLN	2.7
2	В	410	PRO	2.7
1	A	367	GLY	2.6
1	A	171	TYR	2.5
2	В	247	GLY	2.5
2	В	365	ASN	2.5
1	A	333	ALA	2.4
2	В	246	ALA	2.4
1	A	410	PRO	2.1
1	A	244	PHE	2.0
1	A	363	ALA	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.

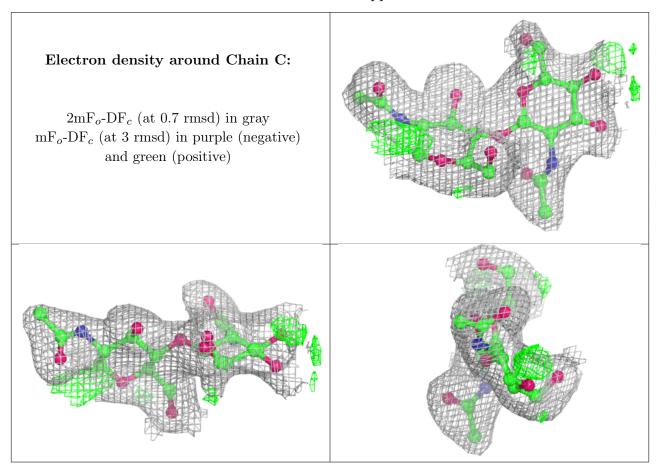


6.3 Carbohydrates (i)

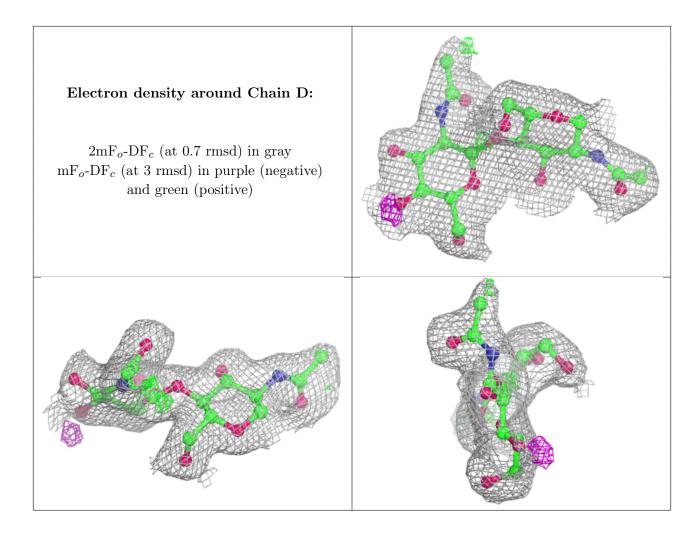
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	NAG	С	2	14/15	0.85	0.12	42,51,66,69	0
3	NAG	D	2	14/15	0.90	0.13	39,46,53,56	0
3	NAG	С	1	14/15	0.92	0.10	35,40,47,51	0
3	NAG	D	1	14/15	0.94	0.09	34,38,45,46	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	$\operatorname{B-factors}(\mathrm{\AA}^2)$	Q<0.9
4	NAG	A	505	14/15	0.76	0.15	34,42,49,52	0
4	NAG	В	504	14/15	0.80	0.26	48,57,67,69	0
4	NAG	A	501	14/15	0.81	0.19	58,64,67,67	0
4	NAG	A	504	14/15	0.82	0.15	33,45,49,52	0
4	NAG	В	503	14/15	0.89	0.15	32,36,40,42	0

6.5 Other polymers (i)

There are no such residues in this entry.

