

wwPDB X-ray Structure Validation Summary Report (i)

Mar 4, 2024 - 10:24 am GMT

PDB ID	:	8RKH
Title	:	Crystal structure of the ZP-N2 and ZP-N3 domains of mouse ZP2 (mZP2-
		N2N3)
Authors	:	Fahrenkamp, D.; de Sanctis, D.; Jovine, L.
Deposited on		
Resolution	:	1.90 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:

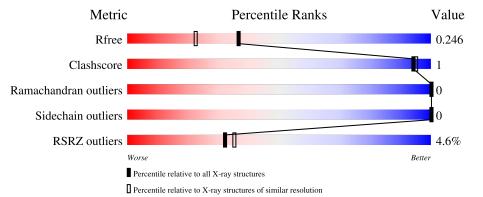
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 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 1.90 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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	237	4% 91%	• 8%
1	В	237	4%	5% 8%
2	С	6	83%	17%
3	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
2	MAN	С	5	-	-	-	Х



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7389 atoms, of which 3565 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.

Mol	Chain	Residues			Atom	s		ZeroOcc	AltConf	Trace	
1	1 Λ	219	Total	С	Η	Ν	0	S	0	0	0
	A	219	3437	1115	1700	291	322	9	0		
1	1 B	219	Total	С	Η	Ν	0	S	0	0	0
		219	3435	1111	1705	286	324	9			

• Molecule 1 is a protein called Zona pellucida sperm-binding protein 2.

Chain	Residue	Modelled	Actual	Comment	Reference
А	132	GLU	-	expression tag	UNP P20239
А	133	THR	-	expression tag	UNP P20239
А	134	GLY	-	expression tag	UNP P20239
А	361	LEU	-	expression tag	UNP P20239
А	362	GLU	-	expression tag	UNP P20239
А	363	HIS	-	expression tag	UNP P20239
А	364	HIS	-	expression tag	UNP P20239
А	365	HIS	-	expression tag	UNP P20239
А	366	HIS	-	expression tag	UNP P20239
А	367	HIS	-	expression tag	UNP P20239
А	368	HIS	-	expression tag	UNP P20239
В	132	GLU	-	expression tag	UNP P20239
В	133	THR	-	expression tag	UNP P20239
В	134	GLY	-	expression tag	UNP P20239
В	361	LEU	-	expression tag	UNP P20239
В	362	GLU	-	expression tag	UNP P20239
В	363	HIS	-	expression tag	UNP P20239
В	364	HIS	-	expression tag	UNP P20239
В	365	HIS	-	expression tag	UNP P20239
В	366	HIS	-	expression tag	UNP P20239
В	367	HIS	-	expression tag	UNP P20239
В	368	HIS	_	expression tag	UNP P20239

There are 22 discrepancies between the modelled and reference sequences:

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



beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



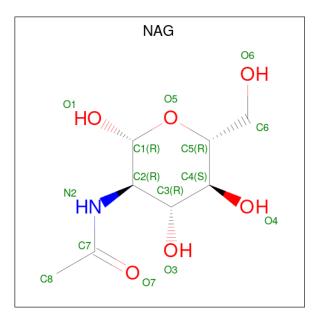
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	6	Total 136	C 40	Н 64	N 2	O 30	0	0	0

• 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	D	2	Total 54	C 16	Н 26	N 2	O 10	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	Δ	1	Total	С	Η	Ν	Ο	0	0
4	A		28	8	14	1	5	0	0

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Mol	Chain	Residues		At	\mathbf{oms}			ZeroOcc	AltConf	
4	Δ	1	Total	С	Η	Ν	Ο	0	0	
4	А	1	28	8	14	1	5	0	0	
4	Λ	1	Total	С	Η	Ν	Ο	0	0	
4	Л	1	28	8	14	1	5	0	0	
4	р	1	Total	С	Η	Ν	Ο	0	0	
4	D	1	28	8	14	1	5	0	0	
4	р	1	Total	С	Η	Ν	Ο	0	0	
4	D	1	28	8	14	1	5		U	

• Molecule 5 is water.

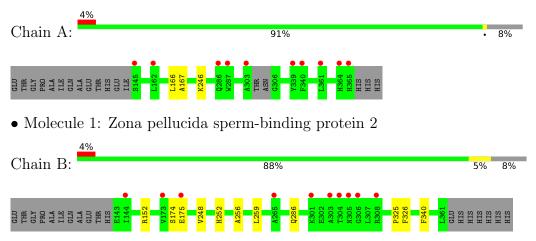
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	99	Total O 99 99	0	0
5	В	88	Total O 88 88	0	0



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: Zona pellucida sperm-binding protein 2



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

Chain C:	83%	17%
NAG1 NAG2 BMA3 MAN4 MAN5 MAN5 MAN6		

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

Chain D:

100%





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	163.01Å 54.17Å 68.66Å	Depositor
a, b, c, α , β , γ	90.00° 107.98° 90.00°	Depositor
Resolution (Å)	43.73 - 1.90	Depositor
Resolution (A)	43.73 - 1.90	EDS
% Data completeness	99.2 (43.73-1.90)	Depositor
(in resolution range)	99.3 (43.73-1.90)	EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.97 (at 1.89 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
D D.	0.214 , 0.248	Depositor
R, R_{free}	0.211 , 0.246	DCC
R_{free} test set	2225 reflections $(4.96%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	44.0	Xtriage
Anisotropy	0.288	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 44.8	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7389	wwPDB-VP
Average B, all atoms $(Å^2)$	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.08% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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, MAN, 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		lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.29	0/1781	0.53	0/2418	
1	В	0.29	0/1772	0.54	0/2408	
All	All	0.29	0/3553	0.54	0/4826	

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	1737	1700	1700	2	0
1	В	1730	1705	1705	7	0
2	С	72	64	61	1	0
3	D	28	26	25	0	0
4	А	42	42	39	0	0
4	В	28	28	26	0	0
5	А	99	0	0	0	0
5	В	88	0	0	1	0
All	All	3824	3565	3556	9	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)
1:B:152:ARG:NH2	5:B:501:HOH:O	2.22	0.72
1:B:286:GLN:OE1	1:B:286:GLN:N	2.36	0.57
2:C:2:NAG:O3	2:C:3:BMA:O5	2.30	0.45
1:B:252:HIS:CE1	1:B:340:PHE:HE2	2.37	0.42
1:B:325:PRO:HA	1:B:326:PHE:HA	1.72	0.42

The worst 5 of 9 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	215/237~(91%)	210 (98%)	5(2%)	0	100	100
1	В	217/237~(92%)	215~(99%)	2(1%)	0	100	100
All	All	432/474~(91%)	425~(98%)	7~(2%)	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		
1	А	197/212~(93%)	197 (100%)	0	100 100	

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	Chain	Analysed	Rotameric	Outliers	Percentiles
1	В	197/212~(93%)	197 (100%)	0	100 100
All	All	394/424~(93%)	394 (100%)	0	100 100

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There are no protein residues with a non-rotameric sidechain to report.

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. There are no such side chains 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)

8 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	Turne	Chain	Res	Link	Bo	ond leng	ths	Bond angles		
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	NAG	С	1	2,1	14,14,15	0.61	1 (7%)	$17,\!19,\!21$	0.66	0
2	NAG	С	2	2	14,14,15	0.15	0	17,19,21	0.42	0
2	BMA	С	3	2	11,11,12	0.96	0	$15,\!15,\!17$	1.07	1 (6%)
2	MAN	С	4	2	11,11,12	1.15	1 (9%)	$15,\!15,\!17$	2.22	4 (26%)
2	MAN	С	5	2	11,11,12	0.72	0	$15,\!15,\!17$	1.45	2 (13%)
2	MAN	С	6	2	11,11,12	1.37	3 (27%)	$15,\!15,\!17$	1.63	4 (26%)
3	NAG	D	1	3,1	14,14,15	0.36	0	17,19,21	0.49	0
3	NAG	D	2	3	14,14,15	0.24	0	17,19,21	0.41	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
2	NAG	С	1	2,1	-	2/6/23/26	0/1/1/1
2	NAG	С	2	2	-	0/6/23/26	0/1/1/1
2	BMA	С	3	2	-	2/2/19/22	0/1/1/1
2	MAN	С	4	2	-	2/2/19/22	0/1/1/1
2	MAN	С	5	2	-	2/2/19/22	0/1/1/1
2	MAN	С	6	2	-	1/2/19/22	0/1/1/1
3	NAG	D	1	3,1	-	2/6/23/26	0/1/1/1
3	NAG	D	2	3	-	0/6/23/26	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	С	6	MAN	C4-C5	2.90	1.59	1.53
2	С	4	MAN	O5-C5	2.67	1.48	1.43
2	С	6	MAN	O5-C1	-2.20	1.40	1.43
2	С	1	NAG	O5-C1	-2.13	1.40	1.43
2	С	6	MAN	C4-C3	2.01	1.57	1.52

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	4	MAN	C1-O5-C5	6.42	120.89	112.19
2	С	5	MAN	C1-O5-C5	4.50	118.29	112.19
2	С	6	MAN	C1-O5-C5	3.94	117.53	112.19
2	С	4	MAN	O5-C1-C2	3.34	115.93	110.77
2	С	3	BMA	C1-O5-C5	3.17	116.49	112.19

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	1	NAG	O5-C5-C6-O6
2	С	1	NAG	O5-C5-C6-O6
2	С	4	MAN	O5-C5-C6-O6
3	D	1	NAG	C4-C5-C6-O6
2	С	3	BMA	O5-C5-C6-O6

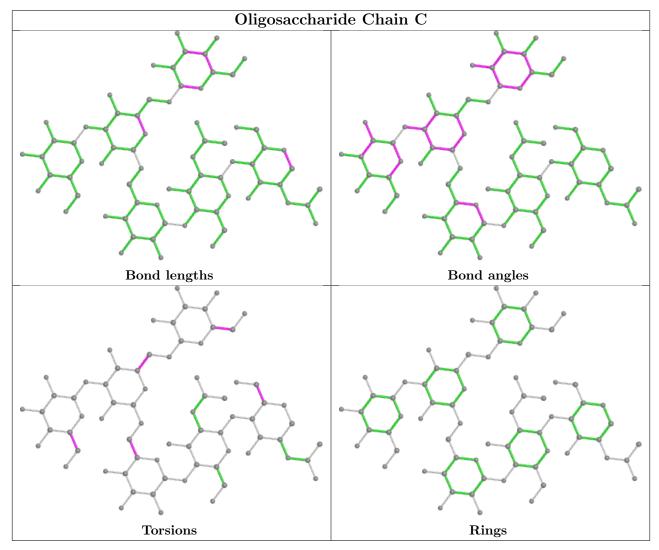
There are no ring outliers.



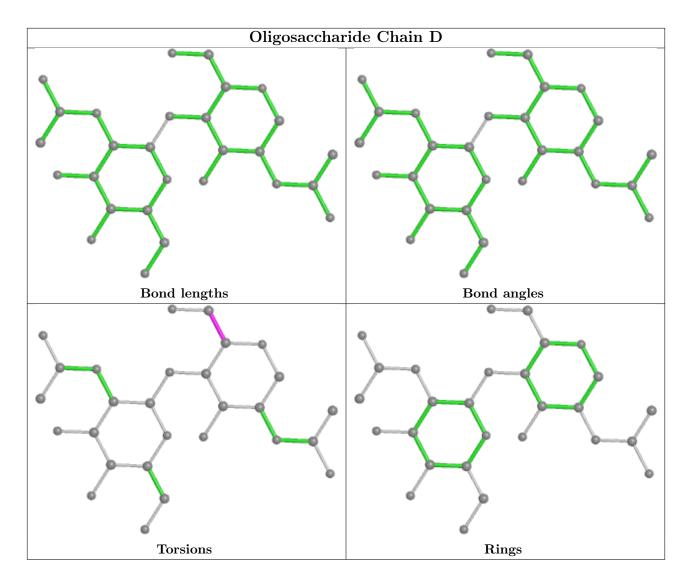
2 monomers are involved in 1 short contact:

N	Mol	Chain	Res	Type	Clashes	Symm-Clashes
	2	С	3	BMA	1	0
	2	С	2	NAG	1	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)

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 Link		Link	Bond lengths			Bond angles			
	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
4	NAG	В	402	1	14,14,15	0.33	0	17,19,21	0.38	0
4	NAG	А	401	1	14,14,15	0.59	0	17,19,21	0.60	0
4	NAG	В	401	1	14,14,15	0.21	0	17,19,21	0.45	0



Mol	Iol Type Chain Res Link		Bo	Bond lengths			Bond angles			
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	NAG	А	402	1	14,14,15	0.67	1 (7%)	17,19,21	0.54	0
4	NAG	А	403	1	14,14,15	0.20	0	17,19,21	0.59	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	В	402	1	-	1/6/23/26	0/1/1/1
4	NAG	А	401	1	-	0/6/23/26	0/1/1/1
4	NAG	В	401	1	-	0/6/23/26	0/1/1/1
4	NAG	А	402	1	-	0/6/23/26	0/1/1/1
4	NAG	А	403	1	-	0/6/23/26	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	402	NAG	O5-C1	-2.13	1.40	1.43

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	В	402	NAG	O5-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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	219/237~(92%)	0.30	10 (4%) 32 35	33, 51, 97, 138	0
1	В	219/237~(92%)	0.31	10 (4%) 32 35	33, 53, 92, 138	0
All	All	438/474~(92%)	0.30	20 (4%) 32 35	33, 53, 97, 138	0

The worst 5 of 20 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	304	THR	6.1
1	А	364	HIS	5.8
1	В	306	GLY	5.4
1	А	287	TRP	5.4
1	А	365	HIS	4.2

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, 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	MAN	С	5	11/12	0.51	0.93	147,188,213,232	0
2	MAN	С	4	11/12	0.57	0.28	115,142,169,176	0
2	MAN	С	6	11/12	0.66	0.23	110,129,148,169	0
3	NAG	D	2	14/15	0.78	0.32	84,120,149,151	0
2	BMA	С	3	11/12	0.79	0.16	104,124,143,143	0

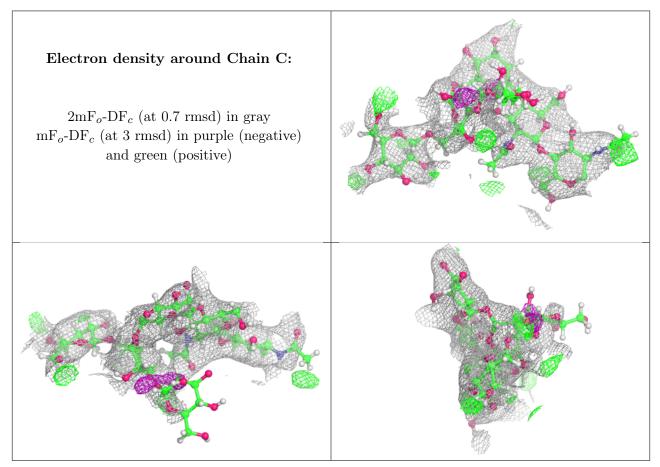
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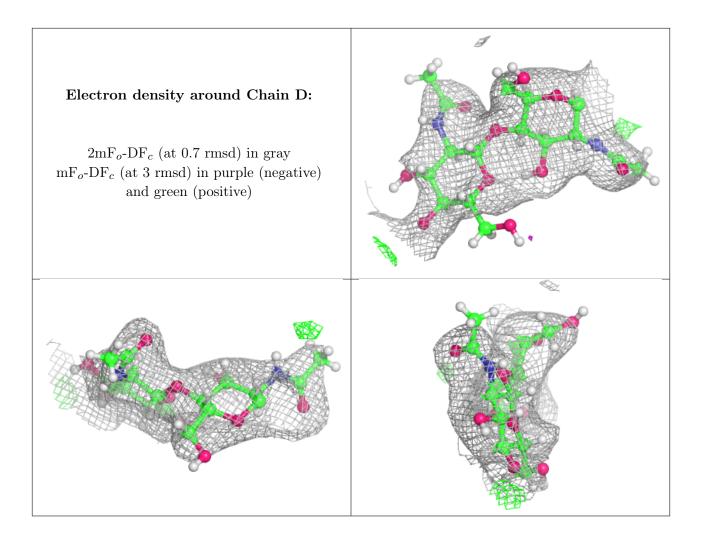
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
3	NAG	D	1	14/15	0.86	0.17	$71,\!90,\!107,\!109$	0
2	NAG	С	2	14/15	0.88	0.12	93,105,121,132	0
2	NAG	С	1	14/15	0.93	0.13	75,92,141,141	0

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	$B-factors(Å^2)$	Q<0.9
4	NAG	В	401	14/15	0.85	0.25	90,109,137,166	0
4	NAG	А	401	14/15	0.86	0.14	60,74,93,93	0
4	NAG	В	402	14/15	0.88	0.12	71,96,129,142	0
4	NAG	А	402	14/15	0.91	0.16	61,80,94,106	0
4	NAG	А	403	14/15	0.93	0.09	60,72,83,85	0

6.5 Other polymers (i)

There are no such residues in this entry.

