



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:48 AM GMT

PDB ID : 2O9O
Title : Crystal Structure of the buffalo Secretory Signalling Glycoprotein at 2.8 Å resolution
Authors : Ethayathulla, A.S.; Srivastava, D.B.; Kumar, J.; Sharma, S.; Kaur, P.; Singh, T.P.
Deposited on : 2006-12-14
Resolution : 2.80 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

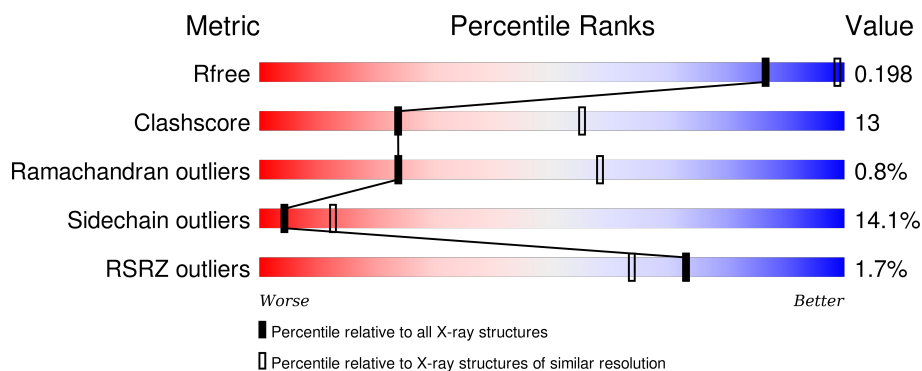
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

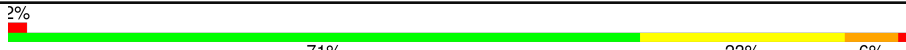
The reported resolution of this entry is 2.80 Å.

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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	2393 (2.80-2.80)
Clashscore	102246	2827 (2.80-2.80)
Ramachandran outliers	100387	2782 (2.80-2.80)
Sidechain outliers	100360	2784 (2.80-2.80)
RSRZ outliers	91569	2404 (2.80-2.80)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$. 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	361	

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	NAG	A	363	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MAN	A	367	X	-	-	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3072 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 Chitinase-3-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	361	Total	C	N	O	S	0	0	0
			2894	1851	507	527	9			

- Molecule 2 is a polymer of unknown type called SUGAR (5-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	5	Total	C	N	O	0	0
			61	34	2	25		

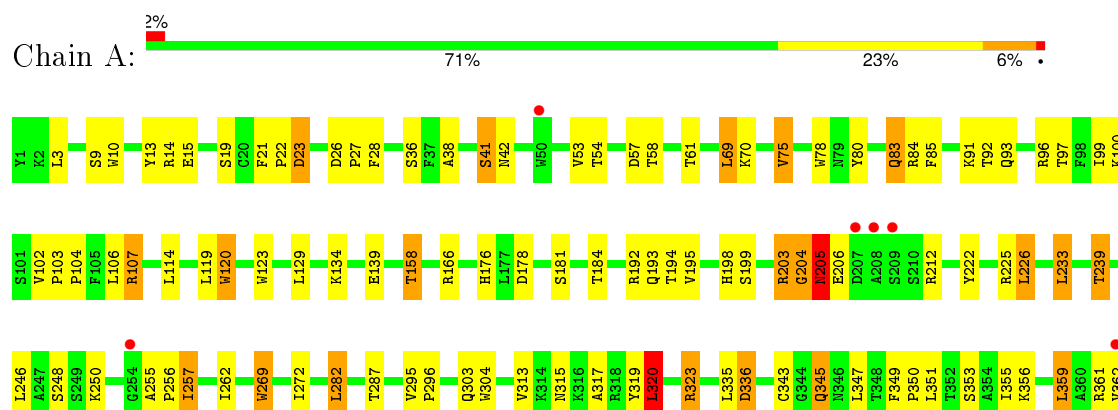
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	117	Total	O	0	0
			117	117		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Chitinase-3-like protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	63.10Å 66.86Å 108.54Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.80 35.04 – 2.80	Depositor EDS
% Data completeness (in resolution range)	100.0 (20.00-2.80) 96.1 (35.04-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.61 (at 2.81Å)	Xtriage
Refinement program	REFMAC 5	Depositor
R, R_{free}	0.186 , 0.236 0.184 , 0.198	Depositor DCC
R_{free} test set	248 reflections (2.24%)	DCC
Wilson B-factor (Å ²)	42.3	Xtriage
Anisotropy	0.445	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 60.5	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 11350 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3072	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.30% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: NAG, MAN

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	0.93	0/2974	0.88	5/4037 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A	1	0

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	320	LEU	CA-CB-CG	8.12	133.99	115.30
1	A	178	ASP	CB-CG-OD2	6.45	124.10	118.30
1	A	120	TRP	CA-CB-CG	5.56	124.27	113.70
1	A	336	ASP	CB-CG-OD2	5.27	123.04	118.30
1	A	107	ARG	NE-CZ-NH1	5.06	122.83	120.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	367	MAN	C1

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	2894	0	2818	73	0
2	A	61	0	52	4	0
3	A	117	0	0	17	0
All	All	3072	0	2870	77	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 13.

All (77) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:ARG:HB3	3:A:484:HOH:O	1.67	0.95
1:A:323:ARG:HH11	1:A:323:ARG:HG2	1.36	0.91
1:A:99:ILE:HG22	3:A:473:HOH:O	1.71	0.89
1:A:100:LYS:HA	3:A:473:HOH:O	1.75	0.86
1:A:103:PRO:HB2	1:A:104:PRO:HD3	1.63	0.78
1:A:139:GLU:HG2	3:A:473:HOH:O	1.83	0.77
1:A:323:ARG:CG	1:A:323:ARG:HH11	2.04	0.70
1:A:319:TYR:CZ	1:A:323:ARG:HD2	2.27	0.70
1:A:22:PRO:HB2	1:A:58:THR:HG22	1.73	0.69
1:A:323:ARG:NH1	1:A:323:ARG:HG2	1.96	0.68
1:A:203:ARG:HB2	3:A:445:HOH:O	1.95	0.66
1:A:262:ILE:H	1:A:303:GLN:HE22	1.45	0.65
1:A:317:ALA:HA	1:A:320:LEU:HD13	1.82	0.62
1:A:57:ASP:O	1:A:61:THR:HG23	1.99	0.61
1:A:204:GLY:O	1:A:206:GLU:N	2.34	0.60
1:A:313:VAL:CG1	1:A:355:ILE:HG13	2.32	0.60
2:A:364:NAG:H82	2:A:367:MAN:H62	1.85	0.59
1:A:345:GLN:HG2	1:A:345:GLN:O	2.01	0.59
1:A:192:ARG:O	1:A:194:THR:N	2.36	0.58
1:A:239:THR:HG22	1:A:335:LEU:HB2	1.86	0.57
1:A:212:ARG:NH1	3:A:368:HOH:O	2.37	0.57
1:A:246:LEU:HB3	3:A:447:HOH:O	2.04	0.56
1:A:22:PRO:HB2	1:A:58:THR:CG2	2.35	0.55
2:A:365:MAN:O4	2:A:367:MAN:H2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:LEU:HD22	1:A:70:LYS:N	2.22	0.54
1:A:204:GLY:C	1:A:206:GLU:H	2.11	0.53
2:A:363:NAG:O6	2:A:364:NAG:C7	2.57	0.52
1:A:212:ARG:HD2	1:A:212:ARG:O	2.11	0.51
1:A:336:ASP:OD1	1:A:350:PRO:HD2	2.11	0.51
1:A:15:GLU:HG2	3:A:449:HOH:O	2.11	0.50
1:A:248:SER:N	3:A:447:HOH:O	2.45	0.49
2:A:365:MAN:O4	2:A:367:MAN:C2	2.61	0.49
1:A:103:PRO:HB2	1:A:104:PRO:CD	2.41	0.48
1:A:269:TRP:CE3	1:A:272:ILE:HG13	2.49	0.48
1:A:313:VAL:CG1	1:A:355:ILE:CG1	2.92	0.47
1:A:205:ASN:HD22	1:A:205:ASN:C	2.17	0.47
1:A:10:TRP:HB3	3:A:417:HOH:O	2.13	0.47
1:A:195:VAL:HG13	1:A:304:TRP:CZ2	2.50	0.47
1:A:13:TYR:O	1:A:14:ARG:C	2.53	0.47
1:A:21:PHE:C	1:A:23:ASP:N	2.68	0.47
1:A:198:HIS:HE1	3:A:483:HOH:O	1.98	0.46
1:A:21:PHE:O	1:A:23:ASP:N	2.49	0.46
1:A:28:PHE:O	1:A:356:LYS:NZ	2.49	0.45
1:A:192:ARG:HB3	3:A:479:HOH:O	2.16	0.45
1:A:257:ILE:HD13	1:A:257:ILE:HA	1.69	0.45
1:A:120:TRP:CZ3	1:A:158:THR:HB	2.51	0.45
1:A:262:ILE:H	1:A:303:GLN:NE2	2.12	0.45
1:A:75:VAL:HG22	1:A:114:LEU:HD11	1.98	0.45
1:A:69:LEU:HD22	1:A:69:LEU:C	2.37	0.45
1:A:349:PHE:N	1:A:350:PRO:HD3	2.32	0.45
1:A:255:ALA:HA	1:A:256:PRO:HD3	1.76	0.45
1:A:78:TRP:C	1:A:80:TYR:H	2.21	0.45
1:A:103:PRO:CB	1:A:104:PRO:HD3	2.40	0.43
1:A:38:ALA:HA	3:A:407:HOH:O	2.19	0.43
1:A:198:HIS:CE1	3:A:483:HOH:O	2.71	0.43
1:A:26:ASP:C	1:A:26:ASP:OD1	2.56	0.43
1:A:26:ASP:HA	1:A:27:PRO:HD3	1.85	0.43
1:A:345:GLN:HB3	1:A:345:GLN:HE21	1.59	0.42
1:A:119:LEU:HD22	1:A:120:TRP:CZ3	2.54	0.42
1:A:233:LEU:HA	1:A:233:LEU:HD23	1.91	0.42
1:A:41:SER:O	1:A:42:ASN:HB2	2.19	0.42
1:A:102:VAL:HB	1:A:103:PRO:HD3	2.02	0.41
1:A:262:ILE:HG12	3:A:370:HOH:O	2.19	0.41
1:A:21:PHE:C	1:A:23:ASP:H	2.23	0.41
1:A:123:TRP:HB3	1:A:166:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:ILE:HG22	1:A:359:LEU:HD22	2.02	0.41
1:A:93:GLN:HE21	1:A:96:ARG:HH22	1.67	0.41
1:A:100:LYS:HD3	1:A:139:GLU:OE2	2.20	0.41
1:A:222:TYR:CZ	1:A:226:LEU:HD21	2.55	0.41
1:A:54:THR:O	1:A:57:ASP:HB3	2.21	0.41
1:A:83:GLN:HG2	1:A:83:GLN:H	1.39	0.41
1:A:343:CYS:HB2	3:A:480:HOH:O	2.20	0.41
1:A:134:LYS:HG3	1:A:176:HIS:NE2	2.36	0.41
1:A:317:ALA:HA	1:A:320:LEU:CD1	2.49	0.40
1:A:199:SER:HB2	3:A:405:HOH:O	2.21	0.40
1:A:212:ARG:CG	1:A:212:ARG:O	2.69	0.40
1:A:282:LEU:HD12	1:A:282:LEU:HA	1.79	0.40

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	359/361 (99%)	331 (92%)	25 (7%)	3 (1%)	24	58

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	205	ASN
1	A	193	GLN
1	A	204	GLY

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	304/304 (100%)	261 (86%)	43 (14%)	4 12

All (43) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	LEU
1	A	9	SER
1	A	19	SER
1	A	23	ASP
1	A	36	SER
1	A	41	SER
1	A	53	VAL
1	A	69	LEU
1	A	75	VAL
1	A	83	GLN
1	A	85	PHE
1	A	91	LYS
1	A	92	THR
1	A	97	THR
1	A	106	LEU
1	A	107	ARG
1	A	129	LEU
1	A	158	THR
1	A	181	SER
1	A	184	THR
1	A	203	ARG
1	A	205	ASN
1	A	225	ARG
1	A	226	LEU
1	A	233	LEU
1	A	239	THR
1	A	250	LYS
1	A	257	ILE
1	A	269	TRP
1	A	282	LEU
1	A	287	THR
1	A	295	VAL
1	A	296	PRO
1	A	315	ASN

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Mol	Chain	Res	Type
1	A	320	LEU
1	A	323	ARG
1	A	345	GLN
1	A	347	LEU
1	A	351	LEU
1	A	353	SER
1	A	359	LEU
1	A	361	ARG
1	A	362	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	ASN
1	A	93	GLN
1	A	193	GLN
1	A	198	HIS
1	A	205	ASN
1	A	294	GLN
1	A	303	GLN
1	A	310	GLN
1	A	345	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

5 carbohydrates 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	A	363	1,2	14,14,15	1.05	2 (14%)	15,19,21	1.27	2 (13%)
2	NAG	A	364	2	14,14,15	1.16	1 (7%)	15,19,21	2.46	7 (46%)
2	MAN	A	365	2	11,11,12	0.69	0	14,15,17	1.88	6 (42%)
2	MAN	A	366	2	11,11,12	0.38	0	14,15,17	2.05	2 (14%)
2	MAN	A	367	2	11,11,12	0.84	0	14,15,17	1.00	1 (7%)

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	A	363	1,2	-	0/6/23/26	0/1/1/1
2	NAG	A	364	2	-	0/6/23/26	0/1/1/1
2	MAN	A	365	2	-	0/2/19/22	1/1/1/1
2	MAN	A	366	2	-	0/2/19/22	1/1/1/1
2	MAN	A	367	2	1/1/4/5	0/2/19/22	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	363	NAG	O5-C1	-2.52	1.39	1.43
2	A	364	NAG	O5-C1	-2.36	1.39	1.43
2	A	363	NAG	O5-C5	-2.28	1.38	1.43

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	364	NAG	C1-O5-C5	-4.84	106.10	112.25
2	A	364	NAG	O3-C3-C2	-3.94	101.30	109.11
2	A	365	MAN	O5-C1-C2	-3.11	105.81	110.86
2	A	363	NAG	O4-C4-C5	-3.06	101.14	109.24
2	A	365	MAN	C2-C3-C4	-2.46	106.87	111.04
2	A	365	MAN	O5-C5-C6	-2.41	102.14	107.35
2	A	365	MAN	C3-C4-C5	-2.35	106.10	110.20
2	A	365	MAN	O3-C3-C2	-2.32	105.80	110.00
2	A	365	MAN	C1-C2-C3	-2.27	106.86	109.54
2	A	364	NAG	O4-C4-C5	-2.10	103.67	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	363	NAG	C1-O5-C5	-2.04	109.67	112.25
2	A	364	NAG	C2-N2-C7	2.10	125.74	123.04
2	A	364	NAG	C3-C2-N2	2.18	115.79	110.56
2	A	367	MAN	C1-C2-C3	2.56	112.57	109.54
2	A	366	MAN	O5-C1-C2	2.98	115.68	110.86
2	A	364	NAG	C4-C3-C2	3.11	116.07	111.23
2	A	364	NAG	O4-C4-C3	4.61	120.71	110.34
2	A	366	MAN	C1-O5-C5	6.64	120.67	112.25

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	367	MAN	C1

There are no torsion outliers.

All (2) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	366	MAN	C1-C2-C3-C4-C5-O5
2	A	365	MAN	C1-C2-C3-C4-C5-O5

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	363	NAG	1	0
2	A	364	NAG	2	0
2	A	365	MAN	2	0
2	A	367	MAN	3	0

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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, 95th 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	361/361 (100%)	-0.50	6 (1%) 73 63	16, 33, 63, 98	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	362	VAL	3.8
1	A	209	SER	3.5
1	A	208	ALA	3.5
1	A	207	ASP	2.9
1	A	50	TRP	2.7
1	A	254	GLY	2.6

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th 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	LLDF	B-factors(Å ²)	Q<0.9
2	NAG	A	363	14/15	0.87	0.23	8.24	32,36,40,47	14
2	MAN	A	366	11/12	0.63	0.53	-	59,60,62,63	11
2	NAG	A	364	14/15	0.52	0.35	-	51,54,57,57	14
2	MAN	A	367	11/12	0.32	0.63	-	56,63,65,66	11

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	MAN	A	365	11/12	0.57	0.30	-	56,57,59,62	11

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.