



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2018 – 06:07 am GMT

PDB ID : 2ODP
Title : Complement component C2a, the catalytic fragment of C3- and C5-convertase of human complement
Authors : Narayana, S.V.L.; Krishnan, V.
Deposited on : 2006-12-25
Resolution : 1.90 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 ⓘ symbol.

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

MolProbity : 4.02b-467
Xtrriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

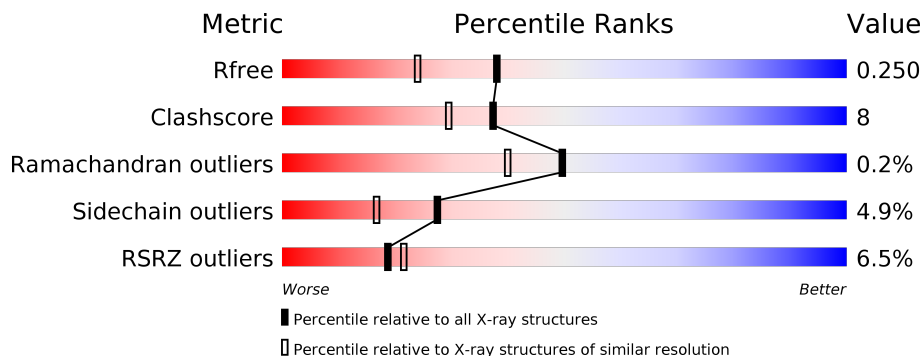
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	111664	5502 (1.90-1.90)
Clashscore	122126	6115 (1.90-1.90)
Ramachandran outliers	120053	6048 (1.90-1.90)
Sidechain outliers	120020	6048 (1.90-1.90)
RSRZ outliers	108989	5379 (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 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	509	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4245 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.

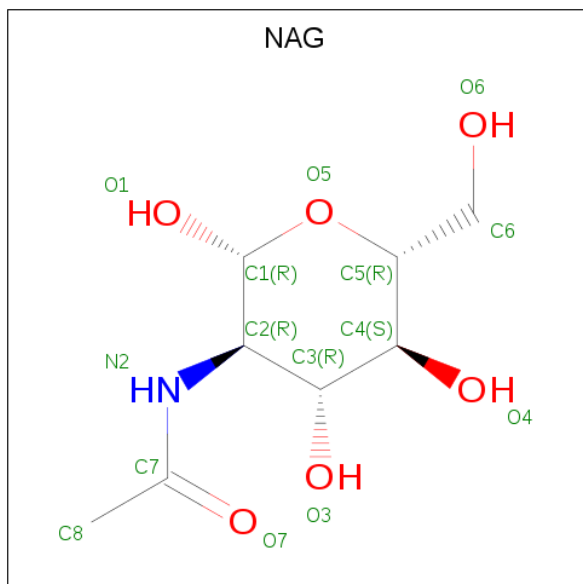
- Molecule 1 is a protein called Complement C2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	490	3873	2440	684	723	26	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	241	ALA	CYS	ENGINEERED	UNP P06681

- Molecule 2 is N-ACETYL-D-GLUCOSAMINE (three-letter code: NAG) (formula: C₈H₁₅NO₆).



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

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

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mg	0	0
			1	1		

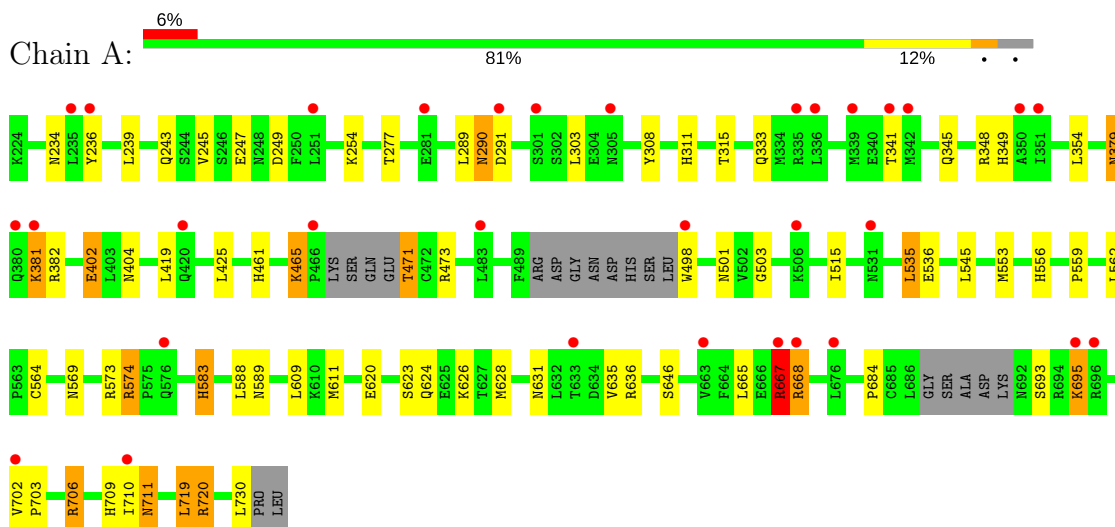
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	259	Total	O	0	0
			259	259		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Complement C2



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.40Å 83.82Å 75.24Å 90.00° 92.10° 90.00°	Depositor
Resolution (Å)	30.00 – 1.90 25.06 – 1.90	Depositor EDS
% Data completeness (in resolution range)	97.8 (30.00-1.90) 97.7 (25.06-1.90)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.91 (at 1.90Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.207 , 0.250 0.206 , 0.250	Depositor DCC
R_{free} test set	2475 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	21.8	Xtrriage
Anisotropy	0.241	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 47.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.025 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4245	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.90% 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, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: MG, 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	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.81	1/3949 (0.0%)	0.84	10/5338 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	402	GLU	CD-OE2	7.77	1.34	1.25

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	574	ARG	NE-CZ-NH2	-11.93	114.34	120.30
1	A	574	ARG	NE-CZ-NH1	10.28	125.44	120.30
1	A	706	ARG	NE-CZ-NH2	-9.72	115.44	120.30
1	A	720	ARG	NE-CZ-NH2	-8.29	116.16	120.30
1	A	720	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	A	667	ARG	NE-CZ-NH2	-6.95	116.82	120.30
1	A	706	ARG	NE-CZ-NH1	6.91	123.75	120.30
1	A	667	ARG	NE-CZ-NH1	6.87	123.73	120.30
1	A	719	LEU	CB-CG-CD1	5.41	120.19	111.00
1	A	348	ARG	NE-CZ-NH2	-5.27	117.67	120.30

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	3873	0	3811	65	0
2	A	112	0	100	3	0
3	A	1	0	0	0	0
4	A	259	0	0	7	0
All	All	4245	0	3911	65	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 8.

All (65) 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:631:ASN:HD21	2:A:801:NAG:C1	1.42	1.30
1:A:668:ARG:HH11	1:A:668:ARG:HG2	0.98	1.15
1:A:381:LYS:HE3	1:A:381:LYS:H	1.19	1.06
1:A:667:ARG:HG2	1:A:667:ARG:HH11	1.25	1.00
1:A:569:ASN:HD22	1:A:583:HIS:HE1	1.04	0.98
1:A:668:ARG:NH1	1:A:668:ARG:HG2	1.77	0.96
1:A:668:ARG:HH11	1:A:668:ARG:CG	1.82	0.93
1:A:631:ASN:HD21	2:A:801:NAG:C2	1.84	0.89
1:A:574:ARG:HD2	4:A:959:HOH:O	1.73	0.88
1:A:564:CYS:H	1:A:583:HIS:HD2	1.15	0.86
1:A:381:LYS:N	1:A:381:LYS:HE3	1.91	0.85
1:A:569:ASN:HD22	1:A:583:HIS:CE1	1.95	0.83
1:A:564:CYS:H	1:A:583:HIS:CD2	2.00	0.80
1:A:667:ARG:CG	1:A:667:ARG:HH11	1.95	0.80
1:A:569:ASN:ND2	1:A:583:HIS:HE1	1.83	0.76
1:A:624:GLN:HB2	1:A:703:PRO:HB3	1.68	0.76
1:A:535:LEU:HB3	1:A:628:MET:HE3	1.67	0.75
1:A:234:ASN:HD21	1:A:333:GLN:HE22	1.32	0.74
1:A:574:ARG:CD	4:A:959:HOH:O	2.32	0.71
1:A:573:ARG:HD2	1:A:668:ARG:CZ	2.20	0.71
1:A:471:THR:HG23	1:A:473:ARG:HH12	1.55	0.70
1:A:667:ARG:HG2	1:A:667:ARG:NH1	2.03	0.70
1:A:668:ARG:NH1	1:A:668:ARG:CG	2.50	0.68
1:A:236:TYR:OH	1:A:349:HIS:HD2	1.79	0.64
1:A:536:GLU:HG3	1:A:628:MET:HE1	1.79	0.63
1:A:471:THR:HG23	1:A:473:ARG:NH1	2.15	0.61
1:A:535:LEU:CB	1:A:628:MET:HE3	2.32	0.60
1:A:684:PRO:O	1:A:695:LYS:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:GLU:HG3	1:A:628:MET:CE	2.32	0.58
1:A:471:THR:CG2	1:A:473:ARG:HH12	2.15	0.58
1:A:465:LYS:HE3	1:A:501:ASN:HB2	1.86	0.58
1:A:667:ARG:CG	1:A:667:ARG:NH1	2.60	0.57
1:A:290:ASN:HD22	1:A:291:ASP:N	2.01	0.57
1:A:239:LEU:HD22	1:A:354:LEU:HD12	1.88	0.56
1:A:243:GLN:HB2	1:A:315:THR:HB	1.87	0.56
1:A:498:TRP:HB2	1:A:515:ILE:HD12	1.89	0.55
1:A:646:SER:OG	1:A:709:HIS:HE1	1.92	0.53
1:A:720:ARG:NH2	1:A:730:LEU:O	2.43	0.52
1:A:711:ASN:C	1:A:711:ASN:HD22	2.13	0.51
1:A:311:HIS:HD2	4:A:933:HOH:O	1.93	0.51
1:A:535:LEU:CB	1:A:628:MET:CE	2.89	0.51
1:A:277:THR:OG1	1:A:311:HIS:HE1	1.94	0.51
1:A:461:HIS:HE1	4:A:970:HOH:O	1.92	0.51
1:A:631:ASN:ND2	2:A:801:NAG:C2	2.64	0.50
1:A:535:LEU:HB3	1:A:628:MET:CE	2.38	0.50
1:A:623:SER:O	1:A:626:LYS:HE2	2.12	0.50
1:A:341:THR:O	1:A:345:GLN:HG2	2.12	0.49
1:A:609:LEU:HB2	1:A:611:MET:HE2	1.95	0.49
1:A:247:GLU:HG2	1:A:308:TYR:CD2	2.49	0.48
1:A:379:ASN:HD22	1:A:382:ARG:H	1.60	0.47
1:A:609:LEU:CB	1:A:611:MET:HE2	2.46	0.46
1:A:419:LEU:HD13	1:A:425:LEU:HA	1.98	0.46
1:A:588:LEU:HD22	1:A:611:MET:HE3	1.98	0.46
1:A:553:MET:SD	1:A:559:PRO:HD3	2.56	0.45
1:A:636:ARG:NH1	4:A:1015:HOH:O	2.50	0.44
1:A:245:VAL:HG13	1:A:249:ASP:HB2	1.98	0.44
1:A:564:CYS:N	1:A:583:HIS:HD2	1.98	0.44
1:A:574:ARG:HD3	4:A:959:HOH:O	2.10	0.43
1:A:254:LYS:HE3	1:A:303:LEU:O	2.19	0.42
1:A:710:ILE:HA	1:A:710:ILE:HD13	1.94	0.42
1:A:503:GLY:HA3	1:A:556:HIS:O	2.19	0.42
1:A:573:ARG:HD2	1:A:668:ARG:NH2	2.35	0.41
1:A:349:HIS:HE1	4:A:918:HOH:O	2.03	0.41
1:A:620:GLU:HA	1:A:635:VAL:HG21	2.03	0.41
1:A:236:TYR:OH	1:A:349:HIS:CD2	2.67	0.41

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	482/509 (95%)	463 (96%)	18 (4%)	1 (0%)	49 40

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	702	VAL

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	428/447 (96%)	407 (95%)	21 (5%)	27 17

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	289	LEU
1	A	290	ASN
1	A	379	ASN
1	A	381	LYS
1	A	402	GLU
1	A	404	ASN
1	A	465	LYS
1	A	471	THR
1	A	535	LEU
1	A	545	LEU

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Mol	Chain	Res	Type
1	A	562	LEU
1	A	583	HIS
1	A	589	ASN
1	A	665	LEU
1	A	667	ARG
1	A	668	ARG
1	A	693	SER
1	A	695	LYS
1	A	706	ARG
1	A	711	ASN
1	A	719	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	270	ASN
1	A	290	ASN
1	A	311	HIS
1	A	332	ASN
1	A	333	GLN
1	A	349	HIS
1	A	377	ASN
1	A	379	ASN
1	A	404	ASN
1	A	426	HIS
1	A	461	HIS
1	A	480	GLN
1	A	569	ASN
1	A	583	HIS
1	A	591	GLN
1	A	631	ASN
1	A	709	HIS
1	A	711	ASN
1	A	722	HIS

5.3.3 RNA

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](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	NAG	A	801	1,2	14,14,15	0.68	0	17,19,21	1.38	2 (11%)
2	NAG	A	802	2	14,14,15	0.55	0	17,19,21	1.76	2 (11%)
2	NAG	A	803	2	14,14,15	0.50	0	17,19,21	0.79	0
2	NAG	A	804	1,2	14,14,15	0.84	0	17,19,21	1.68	3 (17%)
2	NAG	A	805	2	14,14,15	0.76	0	17,19,21	1.42	3 (17%)
2	NAG	A	806	2	14,14,15	0.77	1 (7%)	17,19,21	2.29	4 (23%)
2	NAG	A	807	1	14,14,15	0.86	1 (7%)	17,19,21	1.45	3 (17%)
2	NAG	A	808	1	14,14,15	0.64	0	17,19,21	0.88	1 (5%)

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	801	1,2	-	0/6/23/26	0/1/1/1
2	NAG	A	802	2	-	0/6/23/26	0/1/1/1
2	NAG	A	803	2	-	0/6/23/26	0/1/1/1
2	NAG	A	804	1,2	-	0/6/23/26	0/1/1/1
2	NAG	A	805	2	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	A	806	2	-	0/6/23/26	0/1/1/1
2	NAG	A	807	1	-	0/6/23/26	0/1/1/1
2	NAG	A	808	1	-	0/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	807	NAG	O5-C1	-2.19	1.40	1.43
2	A	806	NAG	C1-C2	2.27	1.55	1.52

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	804	NAG	O5-C1-C2	-4.79	104.90	111.52
2	A	807	NAG	O5-C1-C2	-3.07	107.29	111.52
2	A	805	NAG	O7-C7-C8	-2.63	117.32	122.07
2	A	801	NAG	O7-C7-C8	-2.37	117.79	122.07
2	A	805	NAG	O4-C4-C5	-2.35	103.43	109.31
2	A	804	NAG	O7-C7-C8	-2.26	117.99	122.07
2	A	805	NAG	O5-C1-C2	-2.08	108.65	111.52
2	A	808	NAG	O7-C7-C8	-2.04	118.38	122.07
2	A	806	NAG	C4-C3-C2	2.09	114.09	111.02
2	A	807	NAG	C1-O5-C5	2.12	115.11	112.19
2	A	804	NAG	C1-C2-N2	2.31	114.44	110.49
2	A	806	NAG	C2-N2-C7	2.32	126.32	122.94
2	A	806	NAG	O5-C1-C2	2.88	115.50	111.52
2	A	801	NAG	C3-C4-C5	3.02	115.64	110.24
2	A	807	NAG	O5-C5-C6	3.15	112.14	107.15
2	A	802	NAG	O5-C1-C2	3.87	116.87	111.52
2	A	802	NAG	C1-O5-C5	5.41	119.64	112.19
2	A	806	NAG	O5-C5-C6	7.47	118.98	107.15

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	801	NAG	3	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

6.1 Protein, DNA and RNA chains

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	490/509 (96%)	0.36	32 (6%) 19 21	10, 22, 38, 47	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	380	GLN	4.3
1	A	506	LYS	3.8
1	A	498	TRP	3.8
1	A	305	ASN	3.4
1	A	381	LYS	3.1
1	A	339	MET	3.0
1	A	251	LEU	3.0
1	A	351	ILE	2.8
1	A	676	LEU	2.7
1	A	576	GLN	2.7
1	A	342	MET	2.7
1	A	696	ARG	2.7
1	A	335	ARG	2.6
1	A	702	VAL	2.5
1	A	420	GLN	2.5
1	A	531	ASN	2.4
1	A	281	GLU	2.4
1	A	633	THR	2.4
1	A	350	ALA	2.4
1	A	236	TYR	2.3
1	A	667	ARG	2.3
1	A	668	ARG	2.3
1	A	291	ASP	2.2
1	A	483	LEU	2.2
1	A	301	SER	2.2
1	A	466	PRO	2.2
1	A	235	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	341	THR	2.1
1	A	663	VAL	2.0
1	A	695	LYS	2.0
1	A	336	LEU	2.0
1	A	710	ILE	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](#)

There are no carbohydrates in this entry.

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, 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	B-factors(Å ²)	Q<0.9
2	NAG	A	806	14/15	0.63	0.29	42,49,52,53	0
2	NAG	A	808	14/15	0.81	0.21	36,39,41,42	0
2	NAG	A	802	14/15	0.83	0.27	56,59,62,63	0
2	NAG	A	801	14/15	0.84	0.14	42,47,49,53	0
2	NAG	A	803	14/15	0.87	0.23	52,54,55,55	0
2	NAG	A	807	14/15	0.92	0.13	24,34,37,38	0
2	NAG	A	804	14/15	0.97	0.08	14,17,20,24	0
2	NAG	A	805	14/15	0.97	0.08	21,23,26,34	0
3	MG	A	901	1/1	0.98	0.06	19,19,19,19	0

6.5 Other polymers [i](#)

There are no such residues in this entry.