



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 02:33 PM UTC

PDB ID : 6VLW / pdb_00006vlw
Title : Crystal Structure of 426cOD in Complex with VRC01 Fab
Authors : Weidle, C.; Pancera, M.
Deposited on : 2020-01-27
Resolution : 3.42 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

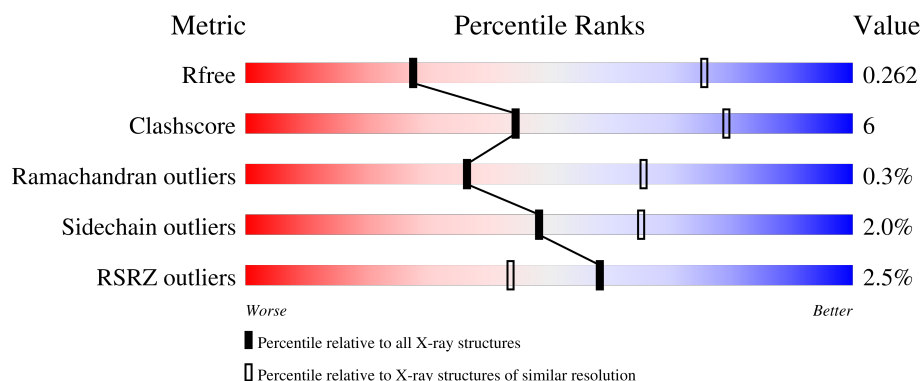
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

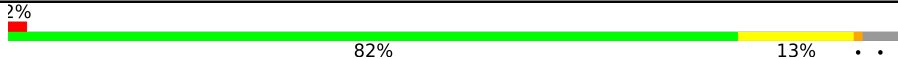
The reported resolution of this entry is 3.42 Å.

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}	180053	1210 (3.48-3.36)
Clashscore	190562	1234 (3.48-3.36)
Ramachandran outliers	187476	1222 (3.48-3.36)
Sidechain outliers	187428	1222 (3.48-3.36)
RSRZ outliers	180081	1210 (3.48-3.36)

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 $\leq 5\%$. 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	H	227	
2	L	210	
3	G	199	
4	A	3	

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 8647 atoms, of which 4060 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 VRC01 Fab Heavy Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	H	217	Total	C	H	N	O	S	0	0	0
			3159	1027	1533	282	307	10			

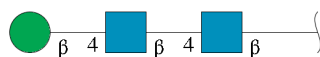
- Molecule 2 is a protein called VRC01 Fab Light Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	L	210	Total	C	H	N	O	S	0	0	0
			2931	974	1380	265	308	4			

- Molecule 3 is a protein called 426cOD.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	G	170	Total	C	H	N	O	S	0	0	0
			2374	773	1128	218	245	10			

- Molecule 4 is an oligosaccharide called 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
4	A	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).

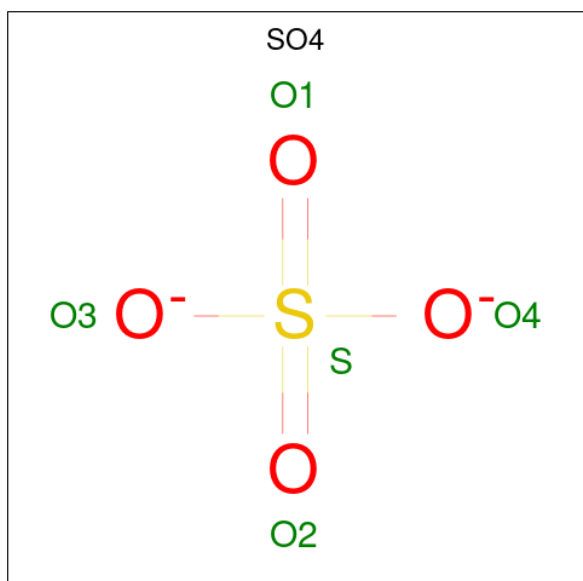


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	H	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	5	Total	Cl	0	0
			5	5		
6	G	3	Total	Cl	0	0
			3	3		

- Molecule 7 is SULFATE ION (CCD ID: SO4) (formula: O₄S).

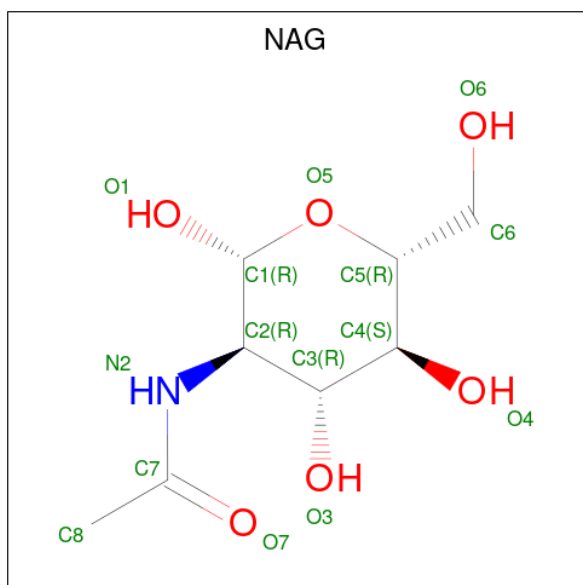


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	L	1	Total O S 5 4 1	0	0
7	G	1	Total O S 5 4 1	0	0

- Molecule 8 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	L	1	Total Na 1 1	0	0

- Molecule 9 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	G	1	Total C N O 14 8 1 5	0	0
9	G	1	Total C H N O 27 8 13 1 5	0	0
9	G	1	Total C N O 14 8 1 5	0	0

- Molecule 10 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	H	24	Total O 24 24	0	0

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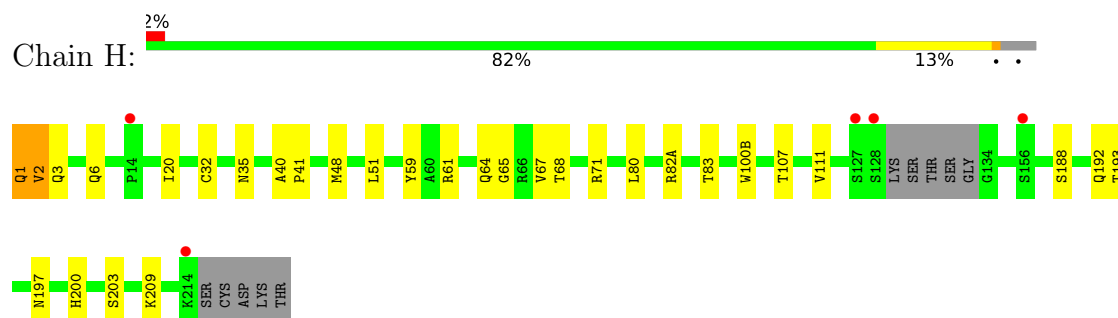
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	L	15	Total	O	0	0
			15	15		
10	G	21	Total	O	0	0
			21	21		

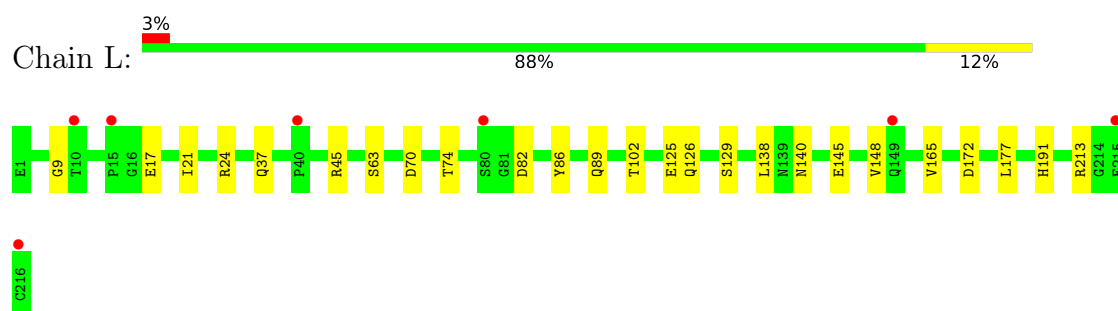
3 Residue-property plots [i](#)

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.

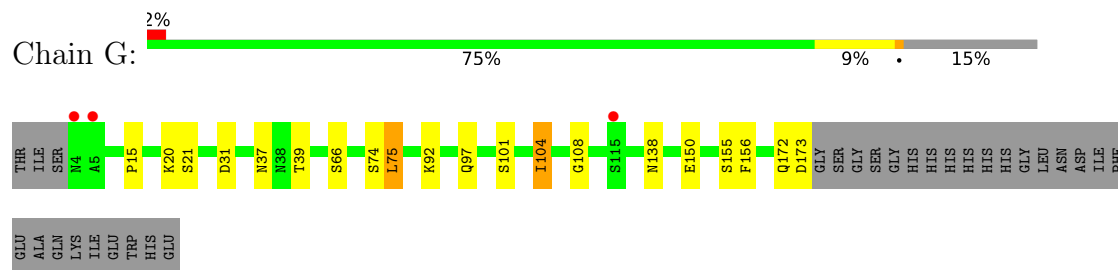
- Molecule 1: VRC01 Fab Heavy Chain



- Molecule 2: VRC01 Fab Light Chain



- Molecule 3: 426cOD



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



4 Data and refinement statistics

Property	Value	Source
Space group	P 43	Depositor
Cell constants a, b, c, α , β , γ	137.37Å 137.37Å 66.19Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.57 – 3.42 48.57 – 3.42	Depositor EDS
% Data completeness (in resolution range)	94.3 (48.57-3.42) 94.3 (48.57-3.42)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.14 (at 3.40Å)	Xtriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R, R_{free}	0.210 , 0.261 0.210 , 0.262	Depositor DCC
R_{free} test set	775 reflections (4.57%)	wwPDB-VP
Wilson B-factor (Å ²)	63.0	Xtriage
Anisotropy	0.048	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 73.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.032 for h,-k,-l	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	8647	wwPDB-VP
Average B, all atoms (Å ²)	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.20% 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: CL, NAG, PCA, SO4, BMA, NA, EDO

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	H	0.12	0/1662	0.31	0/2270
2	L	0.12	0/1588	0.29	0/2168
3	G	0.14	0/1270	0.33	0/1726
All	All	0.13	0/4520	0.31	0/6164

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	H	1626	1533	1532	21	0
2	L	1551	1380	1388	16	0
3	G	1246	1128	1147	14	0
4	A	39	0	34	5	0
5	H	4	6	6	0	0
6	G	3	0	0	0	0
6	H	5	0	0	0	0
7	G	5	0	0	0	0
7	L	5	0	0	0	0
8	L	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	G	42	13	39	1	0
10	G	21	0	0	2	0
10	H	24	0	0	0	0
10	L	15	0	0	0	0
All	All	4587	4060	4146	52	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 6.

The worst 5 of 52 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)
4:A:1:NAG:H3	4:A:1:NAG:H83	1.46	0.97
1:H:61:ARG:NH1	3:G:39:THR:O	2.09	0.85
1:H:65:GLY:O	1:H:82(A):ARG:NH2	2.09	0.85
2:L:191:HIS:O	2:L:213:ARG:NH1	2.14	0.81
4:A:1:NAG:H3	4:A:1:NAG:C8	2.13	0.78

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	H	213/227 (94%)	198 (93%)	14 (7%)	1 (0%)	24	54
2	L	208/210 (99%)	186 (89%)	21 (10%)	1 (0%)	24	54
3	G	168/199 (84%)	153 (91%)	15 (9%)	0	100	100
All	All	589/636 (93%)	537 (91%)	50 (8%)	2 (0%)	36	65

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	2	VAL
2	L	140	ASN

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	H	170/194 (88%)	168 (99%)	2 (1%)	63	72
2	L	153/182 (84%)	151 (99%)	2 (1%)	61	71
3	G	132/172 (77%)	127 (96%)	5 (4%)	29	54
All	All	455/548 (83%)	446 (98%)	9 (2%)	48	65

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	G	150	GLU
3	G	156	PHE
2	L	145	GLU
3	G	75	LEU
3	G	92	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	37	GLN
3	G	113	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

1 non-standard protein/DNA/RNA residue is 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	$\# Z > 2$
1	PCA	H	1	1	7,8,9	1.91	1 (14%)	9,10,12	2.21	5 (55%)

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
1	PCA	H	1	1	-	0/0/11/13	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	1	PCA	CD-N	4.84	1.46	1.34

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	1	PCA	CB-CA-C	3.94	118.06	112.66
1	H	1	PCA	CB-CG-CD	-2.97	99.82	104.41
1	H	1	PCA	O-C-CA	-2.70	117.84	124.77
1	H	1	PCA	CA-N-CD	-2.46	105.17	113.58
1	H	1	PCA	OE-CD-CG	-2.04	123.07	126.72

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	H	1	PCA	2	0

5.5 Carbohydrates ⓘ

3 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAG	A	1	4,2	14,14,15	0.75	1 (7%)	17,19,21	1.07	2 (11%)
4	NAG	A	2	4	14,14,15	1.08	1 (7%)	17,19,21	0.91	0
4	BMA	A	3	4	11,11,12	1.72	3 (27%)	15,15,17	1.65	2 (13%)

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	1	4,2	-	5/6/23/26	0/1/1/1
4	NAG	A	2	4	-	3/6/23/26	0/1/1/1
4	BMA	A	3	4	-	1/2/19/22	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	2	NAG	O5-C1	-3.96	1.37	1.43
4	A	3	BMA	O5-C1	3.69	1.49	1.43
4	A	3	BMA	C2-C3	-3.00	1.47	1.52
4	A	3	BMA	O5-C5	2.51	1.48	1.43
4	A	1	NAG	O5-C1	-2.23	1.39	1.43

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	3	BMA	C3-C4-C5	4.58	118.53	110.23
4	A	3	BMA	O5-C5-C4	2.79	117.62	110.83
4	A	1	NAG	C2-N2-C7	2.29	125.96	122.90
4	A	1	NAG	C3-C4-C5	2.03	113.91	110.23

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

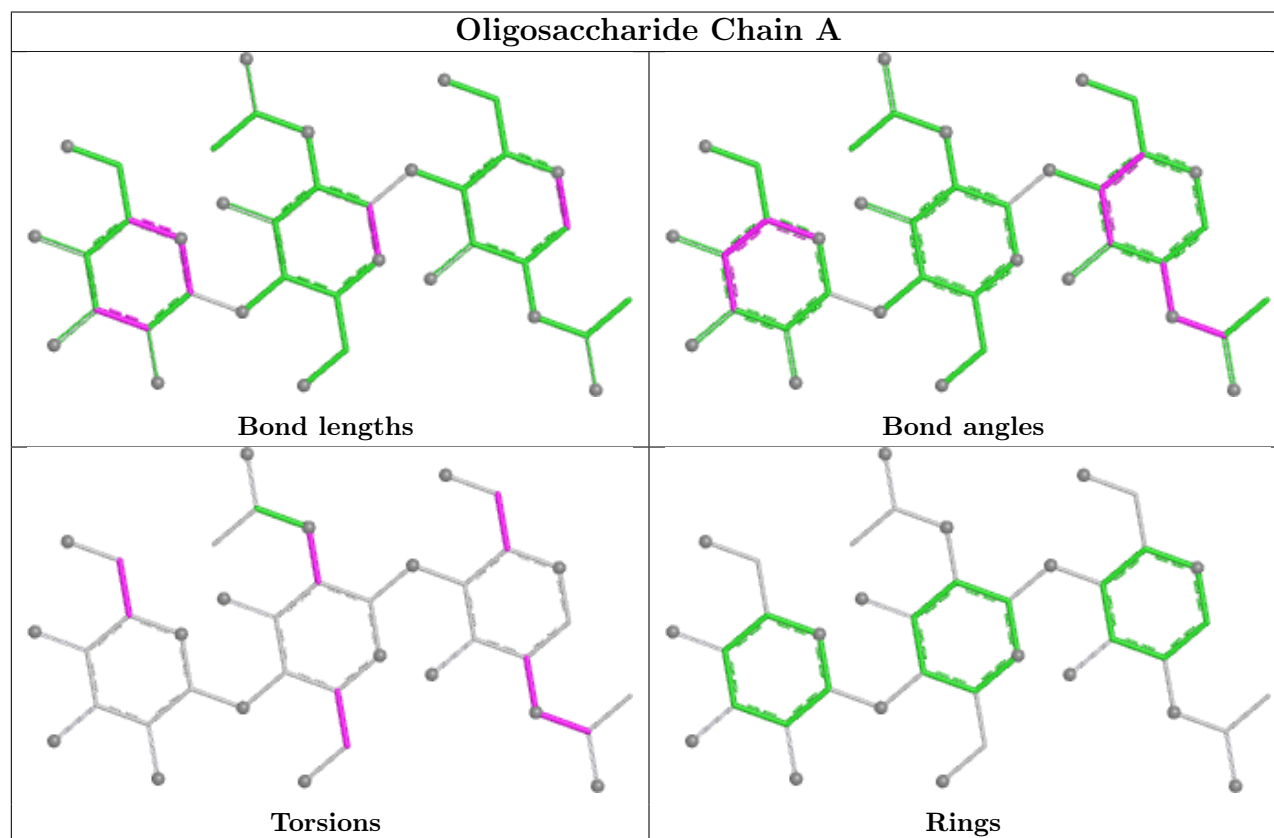
Mol	Chain	Res	Type	Atoms
4	A	2	NAG	C3-C2-N2-C7
4	A	2	NAG	O5-C5-C6-O6
4	A	1	NAG	C8-C7-N2-C2
4	A	1	NAG	O7-C7-N2-C2
4	A	3	BMA	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1	NAG	4	0
4	A	2	NAG	2	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

Of 15 ligands modelled in this entry, 9 are monoatomic - leaving 6 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	$\# Z > 2$
5	EDO	H	301	-	3,3,3	0.44	0	2,2,2	0.26	0
9	NAG	G	207	3	14,14,15	0.24	0	17,19,21	0.37	0
7	SO4	G	201	-	4,4,4	0.23	0	6,6,6	0.07	0
9	NAG	G	205	3	14,14,15	0.28	0	17,19,21	0.48	0
7	SO4	L	301	-	4,4,4	0.24	0	6,6,6	0.12	0
9	NAG	G	206	3	14,14,15	0.24	0	17,19,21	0.58	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
9	NAG	G	207	3	-	0/6/23/26	0/1/1/1
9	NAG	G	205	3	-	2/6/23/26	0/1/1/1
9	NAG	G	206	3	-	2/6/23/26	0/1/1/1
5	EDO	H	301	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	G	206	NAG	O5-C5-C6-O6
9	G	205	NAG	O5-C5-C6-O6
9	G	206	NAG	C4-C5-C6-O6
9	G	205	NAG	C4-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	G	207	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, 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	H	216/227 (95%)	0.08	5 (2%) 61 46	24, 58, 105, 126	0
2	L	210/210 (100%)	0.47	7 (3%) 49 36	31, 68, 97, 127	0
3	G	170/199 (85%)	0.24	3 (1%) 67 53	31, 64, 95, 116	0
All	All	596/636 (93%)	0.26	15 (2%) 58 43	24, 63, 100, 127	0

The worst 5 of 15 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	L	216	CYS	8.0
1	H	128	SER	5.7
3	G	4	ASN	4.3
1	H	127	SER	3.6
1	H	214	LYS	2.8

6.2 Non-standard residues in protein, DNA, RNA chains [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.

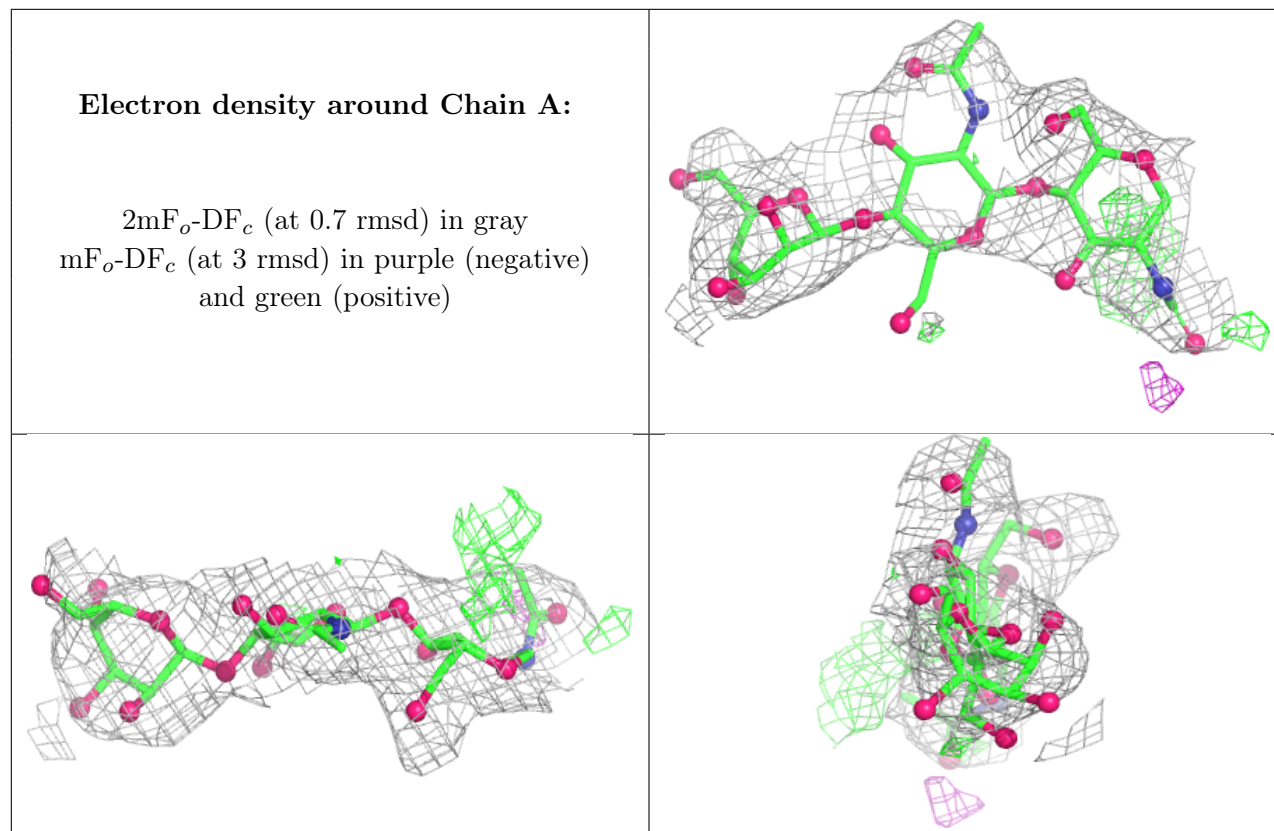
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
1	PCA	H	1	8/9	0.78	0.18	65,100,120,122	0

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, 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($\text{\AA}^2$)	Q<0.9
4	NAG	A	1	14/15	-	-	55,79,104,113	0
4	NAG	A	2	14/15	-	-	86,131,143,149	0
4	BMA	A	3	11/12	-	-	137,145,153,153	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, 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($\text{\AA}^2$)	Q<0.9
9	NAG	G	206	14/15	0.68	0.20	73,100,132,140	0
9	NAG	G	207	14/15	0.72	0.20	71,83,97,103	0
7	SO4	L	301	5/5	0.79	0.17	79,86,101,105	0
9	NAG	G	205	14/15	0.79	0.23	92,133,151,210	0
6	CL	H	305	1/1	0.82	0.12	69,69,69,69	0
7	SO4	G	201	5/5	0.84	0.10	85,89,98,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	NA	L	302	1/1	0.87	0.36	32,32,32,32	0
6	CL	H	303	1/1	0.91	0.14	38,38,38,38	0
5	EDO	H	301	4/4	0.91	0.12	36,44,53,53	0
6	CL	G	203	1/1	0.91	0.11	71,71,71,71	0
6	CL	G	204	1/1	0.92	0.07	35,35,35,35	0
6	CL	H	304	1/1	0.93	0.07	54,54,54,54	0
6	CL	H	306	1/1	0.93	0.09	47,47,47,47	0
6	CL	G	202	1/1	0.95	0.05	36,36,36,36	0
6	CL	H	302	1/1	0.97	0.07	51,51,51,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.