



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 21, 2020 – 04:45 PM BST

PDB ID : 2R1W
Title : Crystal structure of S25-2 Fab in complex with Kdo analogues
Authors : Brooks, C.L.; Evans, S.V.
Deposited on : 2007-08-23
Resolution : 1.70 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.14.6
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) : 2.14.6

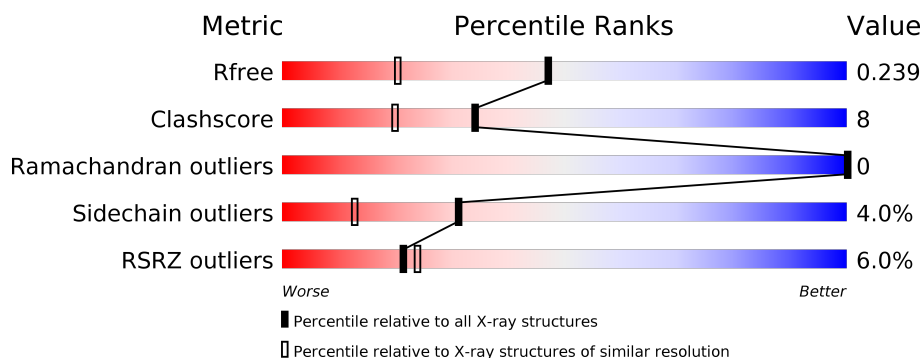
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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}	130704	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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 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	A	219	<div> <div>5%</div> <div> <div></div> <div>80%</div> <div>16%</div> <div>..</div> </div> </div>
2	B	222	<div> <div>7%</div> <div> <div></div> <div>86%</div> <div>11%</div> <div>..</div> </div> </div>
3	C	2	<div> <div></div> <div>100%</div> </div>

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
4	MG	B	218	-	-	X	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3694 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 Fab, antibody fragment (IgG1k), light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	1	0
			1682	1046	284	344	8			

- Molecule 2 is a protein called Fab, antibody fragment (IgG1k), heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	219	Total	C	N	O	S	0	0	0
			1675	1063	279	326	7			

- Molecule 3 is an oligosaccharide called 3,4,5-trideoxy-alpha-D-erythro-oct-3-en-2-ulopyranosonic acid-(2-8)-prop-2-en-1-yl 3-deoxy-alpha-D-manno-oct-2-ulopyranosidonic acid.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	C	2	Total	C	O	0	0	0
			32	19	13			

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Mg	0	0
			1	1		
4	A	2	Total	Mg	0	0
			2	2		

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Zn	0	0
			1	1		
5	A	1	Total	Zn	0	0
			1	1		

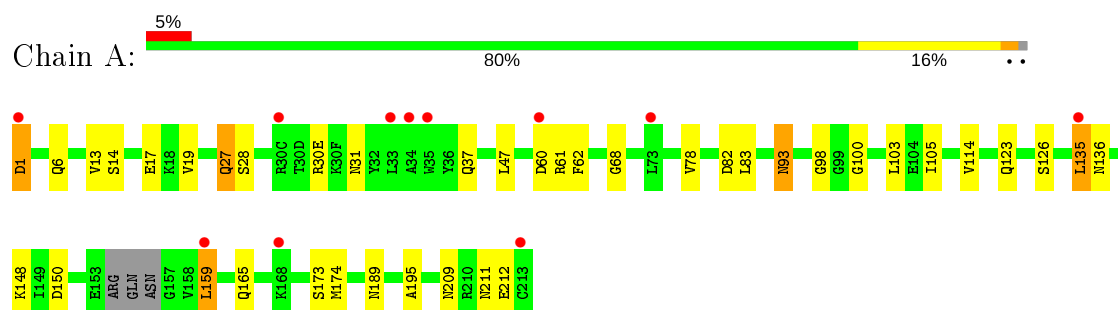
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	145	Total 145	O 145	0	0
6	B	155	Total 155	O 155	0	0

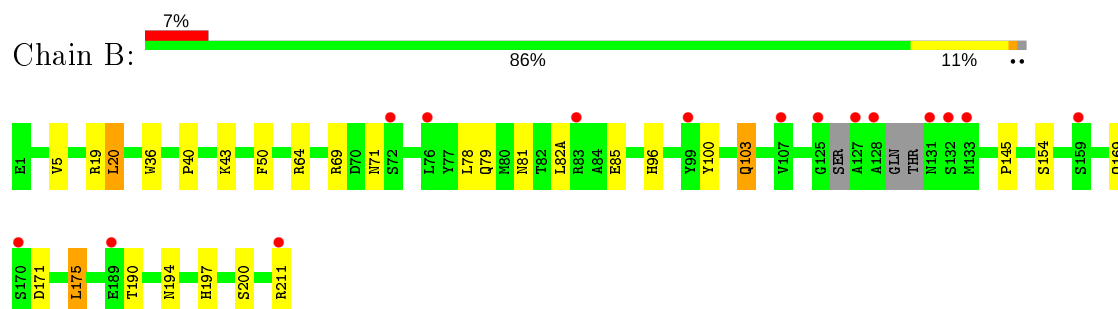
3 Residue-property plots [i](#)

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.

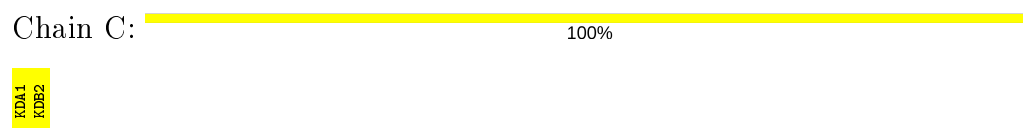
- Molecule 1: Fab, antibody fragment (IgG1k), light chain



- Molecule 2: Fab, antibody fragment (IgG1k), heavy chain



- Molecule 3: 3,4,5-trideoxy-alpha-D-erythro-oct-3-en-2-ulopyranosonic acid-(2-8)-prop-2-en-1-yl 3-deoxy-alpha-D-manno-oct-2-ulopyranosidonic acid



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	45.68 Å 81.20 Å 131.95 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 1.70 19.91 – 1.70	Depositor EDS
% Data completeness (in resolution range)	94.6 (20.00-1.70) 94.6 (19.91-1.70)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.03 (at 1.70 Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.219 , 0.246 0.215 , 0.239	Depositor DCC
R_{free} test set	2650 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	26.1	Xtriage
Anisotropy	0.019	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 39.7	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	0.95	EDS
Total number of atoms	3694	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.46% 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: ZN, MG, KDB, KDA

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	0.71	0/1716	0.75	1/2323 (0.0%)
2	B	0.70	0/1719	0.77	2/2345 (0.1%)
All	All	0.70	0/3435	0.76	3/4668 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	159	LEU	CA-CB-CG	10.02	138.35	115.30
2	B	175	LEU	CA-CB-CG	7.55	132.66	115.30
2	B	20	LEU	CB-CG-CD1	5.44	120.24	111.00

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	1682	0	1628	39	1
2	B	1675	0	1626	20	0
3	C	32	0	26	0	0
4	A	2	0	0	0	0
4	B	1	0	0	0	2
5	A	1	0	0	0	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	1	0	0	0	0
6	A	145	0	0	1	0
6	B	155	0	0	6	0
All	All	3694	0	3280	56	2

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 (56) 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:159:LEU:HD22	2:B:169:GLN:NE2	1.65	1.10
1:A:14:SER:HB2	1:A:17:GLU:OE1	1.63	0.96
1:A:159:LEU:HB3	6:B:360:HOH:O	1.65	0.96
1:A:159:LEU:HD22	2:B:169:GLN:HE22	1.31	0.95
1:A:159:LEU:HD21	6:B:364:HOH:O	1.74	0.87
1:A:159:LEU:CD2	2:B:169:GLN:NE2	2.38	0.86
2:B:154:SER:H	2:B:194:ASN:HD21	1.25	0.85
2:B:211:ARG:NH2	6:B:368:HOH:O	2.14	0.80
1:A:159:LEU:HD23	6:A:218:HOH:O	1.86	0.74
1:A:61:ARG:NH1	1:A:62:PHE:CE1	2.59	0.70
1:A:61:ARG:NH1	1:A:82:ASP:OD1	2.24	0.70
2:B:69:ARG:HE	2:B:71:ASN:HD21	1.38	0.70
1:A:105:ILE:H	1:A:165:GLN:HE22	1.43	0.67
1:A:189:ASN:HD21	1:A:211:ASN:H	1.43	0.65
1:A:114:VAL:HG22	1:A:135:LEU:HD13	1.79	0.64
2:B:145:PRO:O	2:B:197:HIS:HE1	1.81	0.64
1:A:14:SER:CB	1:A:17:GLU:OE1	2.42	0.64
1:A:13:VAL:HG11	1:A:19:VAL:HG22	1.80	0.63
1:A:209:ASN:HB2	1:A:212:GLU:HG3	1.81	0.62
2:B:96:HIS:HD2	2:B:100:TYR:O	1.84	0.60
1:A:13:VAL:HG11	1:A:19:VAL:CG2	2.32	0.60
1:A:93:ASN:HD22	1:A:93:ASN:C	2.06	0.59
1:A:1:ASP:N	1:A:1:ASP:OD2	2.28	0.59
1:A:135:LEU:HD11	1:A:195:ALA:HB2	1.86	0.58
2:B:190:THR:HG23	6:B:234:HOH:O	2.03	0.58
1:A:61:ARG:NH1	1:A:62:PHE:CZ	2.72	0.57
2:B:40:PRO:HB2	2:B:43:LYS:HE3	1.88	0.56
1:A:13:VAL:HG12	1:A:103:LEU:HD11	1.88	0.56
2:B:5:VAL:HA	2:B:103:GLN:HE22	1.70	0.56
1:A:27[A]:GLN:HG3	1:A:28:SER:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:69:ARG:NE	2:B:71:ASN:HD21	2.05	0.53
1:A:135:LEU:CD1	1:A:195:ALA:HB2	2.39	0.53
1:A:6:GLN:HE21	1:A:98:GLY:HA3	1.74	0.52
2:B:19:ARG:HH11	2:B:79:GLN:HE22	1.56	0.52
2:B:154:SER:H	2:B:194:ASN:ND2	2.02	0.52
1:A:83:LEU:HD13	1:A:165:GLN:HE21	1.75	0.51
1:A:13:VAL:HG13	1:A:78:VAL:HG11	1.94	0.50
1:A:31:ASN:ND2	1:A:68:GLY:H	2.11	0.48
2:B:96:HIS:HE1	6:B:232:HOH:O	1.95	0.48
1:A:123:GLN:O	1:A:126:SER:HB3	2.14	0.48
1:A:114:VAL:HG22	1:A:135:LEU:CD1	2.43	0.47
2:B:197:HIS:HD2	2:B:200:SER:OG	1.99	0.46
2:B:69:ARG:HE	2:B:71:ASN:ND2	2.10	0.46
1:A:61:ARG:NH1	1:A:82:ASP:CG	2.69	0.46
2:B:19:ARG:HH11	2:B:79:GLN:NE2	2.14	0.45
1:A:136:ASN:HD22	1:A:173:SER:HB3	1.84	0.43
1:A:105:ILE:H	1:A:165:GLN:NE2	2.12	0.43
1:A:159:LEU:HD12	6:B:360:HOH:O	2.18	0.43
1:A:61:ARG:NH1	1:A:62:PHE:HE1	2.16	0.42
1:A:37:GLN:HB2	1:A:47:LEU:HD11	2.01	0.42
1:A:13:VAL:CG1	1:A:78:VAL:HG11	2.49	0.42
1:A:31:ASN:HD21	1:A:68:GLY:H	1.66	0.42
2:B:64:ARG:HG2	2:B:81:ASN:O	2.21	0.41
1:A:6:GLN:NE2	1:A:100:GLY:H	2.19	0.40
1:A:211:ASN:CG	1:A:212:GLU:HG2	2.42	0.40
2:B:36:TRP:CE2	2:B:78:LEU:HB2	2.56	0.40

All (2) 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	Interatomic distance (Å)	Clash overlap (Å)
5:A:215:ZN:ZN	4:B:218:MG:MG[2_454]	1.04	1.16
1:A:150:ASP:OD2	4:B:218:MG:MG[2_454]	1.49	0.71

5.3 Torsion angles

5.3.1 Protein backbone

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	213/219 (97%)	208 (98%)	5 (2%)	0	100	100
2	B	213/222 (96%)	209 (98%)	4 (2%)	0	100	100
All	All	426/441 (97%)	417 (98%)	9 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	193/195 (99%)	184 (95%)	9 (5%)	26	10
2	B	187/190 (98%)	180 (96%)	7 (4%)	34	15
All	All	380/385 (99%)	364 (96%)	16 (4%)	31	12

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	ASP
1	A	27[A]	GLN
1	A	27[B]	GLN
1	A	30(E)	ARG
1	A	60	ASP
1	A	93	ASN
1	A	135	LEU
1	A	148	LYS
1	A	174	MET
2	B	20	LEU
2	B	50	PHE
2	B	82(A)	LEU
2	B	85	GLU
2	B	103	GLN

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Mol	Chain	Res	Type
2	B	171	ASP
2	B	175	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	6	GLN
1	A	31	ASN
1	A	42	GLN
1	A	93	ASN
1	A	136	ASN
1	A	160	ASN
1	A	165	GLN
1	A	189	ASN
1	A	211	ASN
2	B	71	ASN
2	B	79	GLN
2	B	81	ASN
2	B	96	HIS
2	B	103	GLN
2	B	131	ASN
2	B	169	GLN
2	B	194	ASN
2	B	197	HIS

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 ⓘ

2 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
3	KDA	C	1	3	15,19,19	1.53	3 (20%)	19,27,27	2.83	11 (57%)
3	KDB	C	2	3	9,13,14	2.32	4 (44%)	9,17,20	0.84	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	KDA	C	1	3	-	0/11/35/35	0/1/1/1
3	KDB	C	2	3	-	2/6/20/24	0/1/1/1

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2	KDB	C2-C3	-3.73	1.42	1.50
3	C	2	KDB	C3-C4	3.67	1.41	1.32
3	C	2	KDB	C5-C4	-3.47	1.42	1.49
3	C	1	KDA	C3-C2	3.05	1.55	1.51
3	C	2	KDB	C5-C6	2.72	1.56	1.51
3	C	1	KDA	C4-C5	2.48	1.56	1.52
3	C	1	KDA	O5-C5	2.05	1.47	1.43

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	1	KDA	O8-C8-C7	-7.05	95.71	111.07
3	C	1	KDA	C3-C4-C5	4.27	115.02	110.84
3	C	1	KDA	C3-C2-C1	-3.87	107.41	114.12
3	C	1	KDA	C7-C6-C5	3.44	119.74	114.03
3	C	1	KDA	C4-C5-C6	-3.00	104.38	110.41
3	C	1	KDA	O2-C2-O6	-2.98	101.79	110.07
3	C	1	KDA	C2-C3-C4	-2.67	105.26	110.66
3	C	1	KDA	C8-C7-C6	2.63	117.48	112.17
3	C	1	KDA	O2-C2-C3	2.34	113.36	107.31
3	C	1	KDA	O4-C4-C3	-2.10	105.03	109.91
3	C	1	KDA	O7-C7-C6	-2.08	104.16	109.14

There are no chirality outliers.

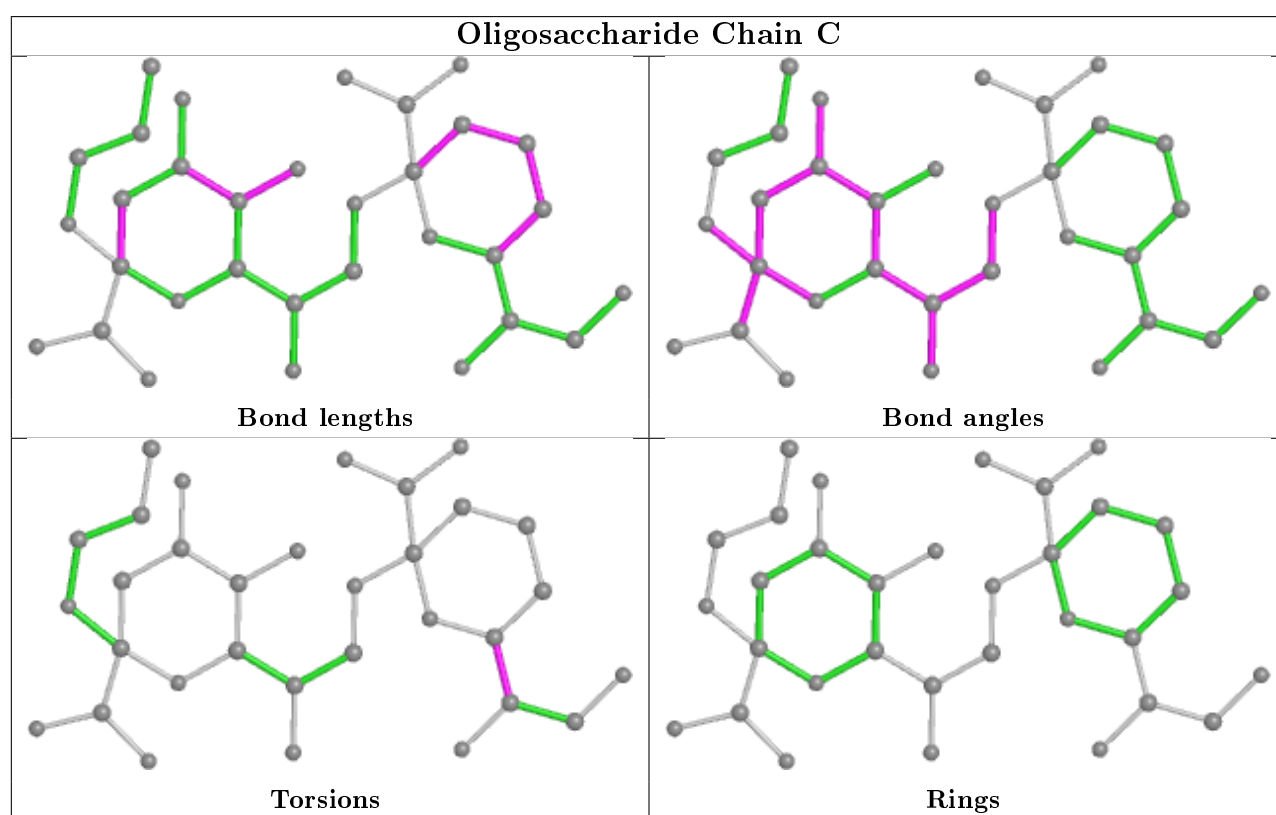
All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	2	KDB	O6-C6-C7-C8
3	C	2	KDB	C5-C6-C7-C8

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](#)

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

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 ⓘ

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	216/219 (98%)	0.34	11 (5%) 28 31	16, 23, 32, 40	0
2	B	219/222 (98%)	0.45	15 (6%) 17 19	16, 23, 35, 73	0
All	All	435/441 (98%)	0.40	26 (5%) 21 24	16, 23, 33, 73	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	211	ARG	5.1
2	B	99	TYR	4.6
2	B	131	ASN	4.2
2	B	170	SER	3.8
2	B	72	SER	3.6
1	A	159	LEU	3.1
2	B	159	SER	3.0
1	A	213	CYS	2.9
2	B	132	SER	2.9
2	B	128	ALA	2.9
1	A	60	ASP	2.8
2	B	76	LEU	2.8
1	A	35	TRP	2.7
2	B	127	ALA	2.5
2	B	125	GLY	2.5
2	B	189	GLU	2.5
2	B	83	ARG	2.4
1	A	34	ALA	2.3
1	A	73	LEU	2.3
2	B	133	MET	2.2
1	A	33	LEU	2.2
1	A	30(C)	ARG	2.1
2	B	107	VAL	2.1
1	A	1	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	168	LYS	2.1
1	A	135	LEU	2.0

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

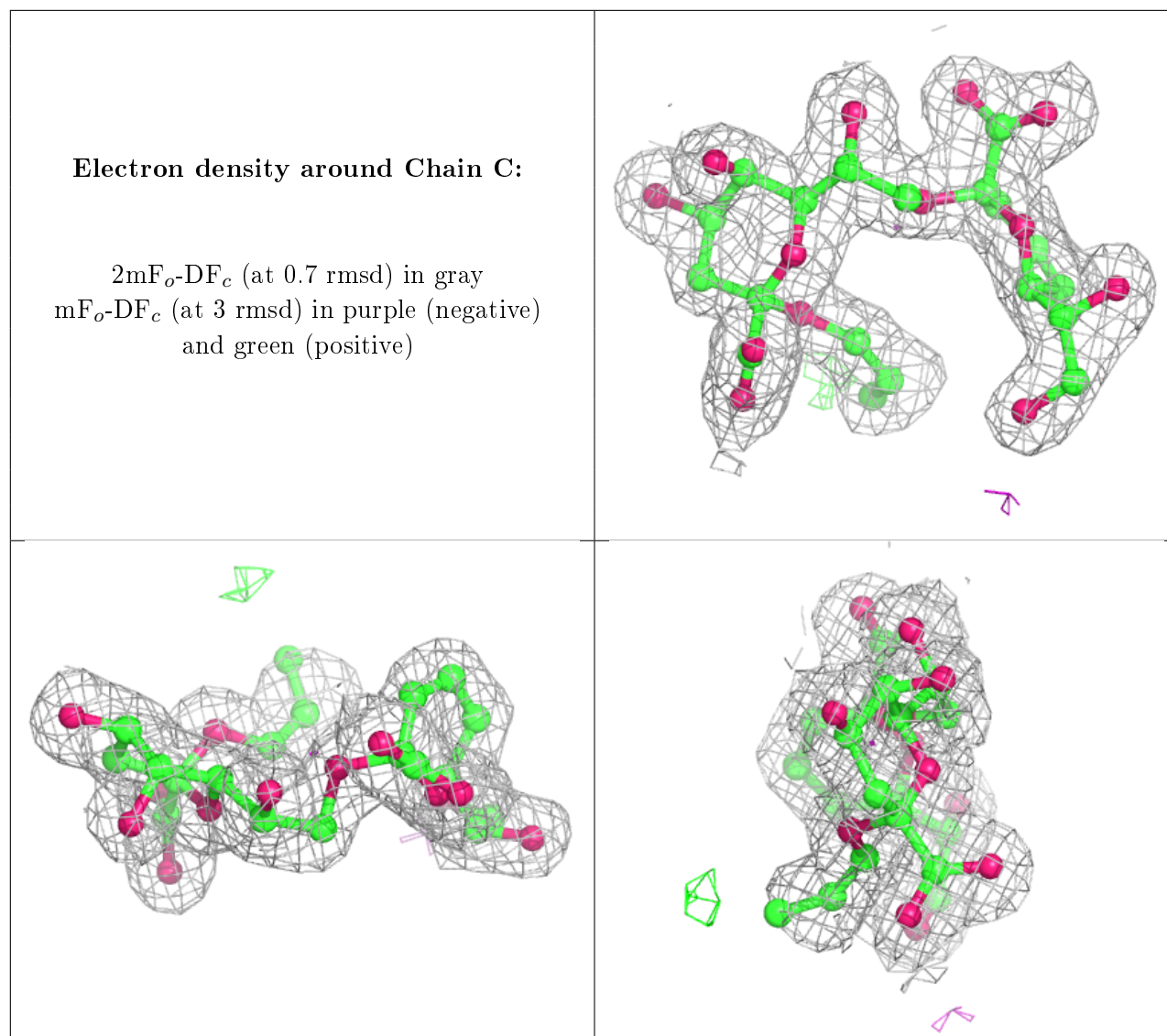
There are no non-standard protein/DNA/RNA residues in this entry.

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, 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(\AA^2)	Q<0.9
3	KDA	C	1	19/19	0.94	0.09	19,22,30,33	0
3	KDB	C	2	13/14	0.95	0.12	27,28,32,32	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 ⓘ

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
4	MG	A	214	1/1	0.70	0.09	37,37,37,37	0
4	MG	A	216	1/1	0.91	0.06	32,32,32,32	0
4	MG	B	218	1/1	0.99	0.12	27,27,27,27	0
5	ZN	A	215	1/1	0.99	0.12	39,39,39,39	0
5	ZN	B	217	1/1	0.99	0.04	24,24,24,24	0

6.5 Other polymers

There are no such residues in this entry.