



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 9, 2020 – 09:36 AM BST

PDB ID : 6RI8
Title : Single crystal serial study of the inhibition of laccases from *Steccherinum murashkinskyi* by fluoride anions at sub-atomic resolution. Third structure of the series with 800 KGy dose.
Authors : Polyakov, K.M.; Gavryushov, S.; Fedorova, T.V.; Glazunova, O.A.; Popov, A.N.
Deposited on : 2019-04-23
Resolution : 0.95 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 : 2.13.1
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) : 2.13.1

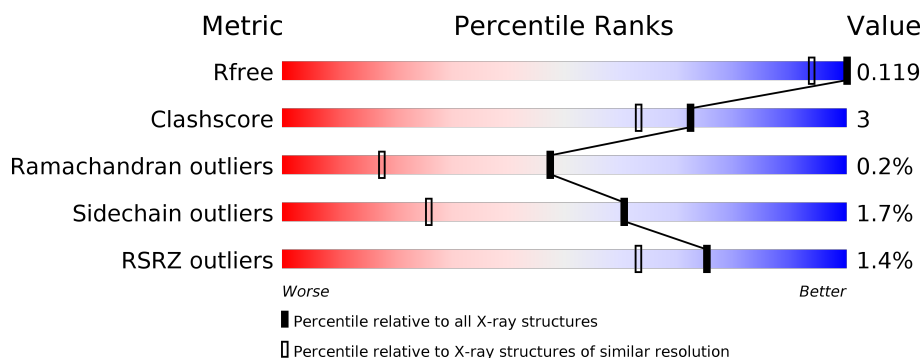
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 0.95 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	1243 (1.06-0.86)
Clashscore	141614	1321 (1.06-0.86)
Ramachandran outliers	138981	1233 (1.06-0.86)
Sidechain outliers	138945	1235 (1.06-0.86)
RSRZ outliers	127900	1209 (1.06-0.86)

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	498	<div> <div style="width: 100%; height: 10px; background-color: red;"></div> <div style="width: 93%; height: 10px; background-color: green;"></div> <div style="width: 6%; height: 10px; background-color: orange;"></div> <div style="width: 5%; height: 10px; background-color: yellow;"></div> <div style="width: 100%; height: 10px; background-color: grey;"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> % 93% 6% </div> </div>
2	B	2	<div> <div style="width: 50%; height: 10px; background-color: green;"></div> <div style="width: 50%; height: 10px; background-color: yellow;"></div> <div style="width: 100%; height: 10px; background-color: grey;"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 50% 50% </div> </div>
2	C	2	<div> <div style="width: 50%; height: 10px; background-color: green;"></div> <div style="width: 50%; height: 10px; background-color: yellow;"></div> <div style="width: 100%; height: 10px; background-color: grey;"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 50% 50% </div> </div>

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 8309 atoms, of which 3405 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 Laccase 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	498	Total	C	H	N	O	S	0	31	1
			7220	2438	3365	653	753	11			

- Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	2	Total	C	H	N	O	0	0	0
			46	16	18	2	10			
2	C	2	Total	C	H	N	O	0	0	0
			50	16	22	2	10			

- Molecule 3 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	4	Total	Cu	0	4
			7	7		

- Molecule 4 is FLUORIDE ION (three-letter code: F) (formula: F).

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

- Molecule 5 is OXYGEN MOLECULE (three-letter code: OXY) (formula: O₂).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	O	0	0
			2	2		
5	A	1	Total	O	0	0
			2	2		

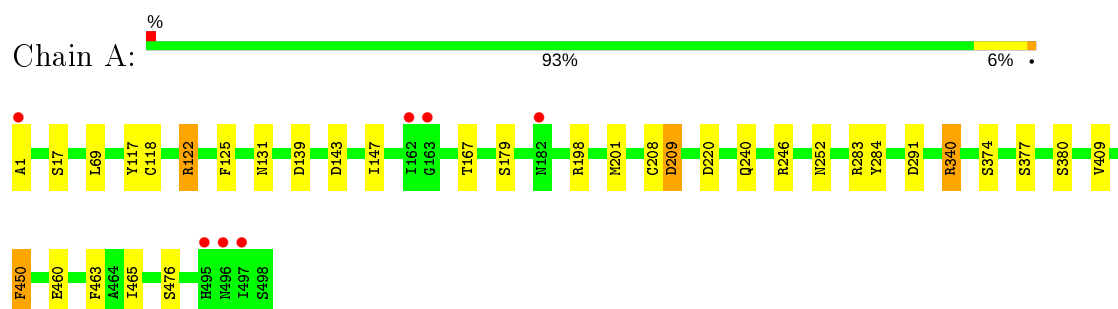
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	974	Total	O	0	6
			980	980		

3 Residue-property plots

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: Laccase 2



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



- Molecule 2: 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 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	56.18 Å 84.20 Å 112.22 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	67.35 – 0.95 50.24 – 0.95	Depositor EDS
% Data completeness (in resolution range)	97.2 (67.35-0.95) 97.2 (50.24-0.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 0.95 Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.106 , 0.119 0.107 , 0.119	Depositor DCC
R_{free} test set	16025 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	9.1	Xtriage
Anisotropy	0.261	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 54.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.99	EDS
Total number of atoms	8309	wwPDB-VP
Average B, all atoms (Å ²)	12.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.35% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: F, OXY, CU, 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	0.74	14/4128 (0.3%)	0.89	12/5679 (0.2%)

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	377[A]	SER	CB-OG	-7.91	1.31	1.42
1	A	377[B]	SER	CB-OG	-7.91	1.31	1.42
1	A	17[A]	SER	CB-OG	-7.14	1.32	1.42
1	A	17[B]	SER	CB-OG	-7.14	1.32	1.42
1	A	17[C]	SER	CB-OG	-7.14	1.32	1.42
1	A	179[A]	SER	CB-OG	-6.96	1.33	1.42
1	A	179[B]	SER	CB-OG	-6.96	1.33	1.42
1	A	179[C]	SER	CB-OG	-6.96	1.33	1.42
1	A	380[A]	SER	CB-OG	-5.94	1.34	1.42
1	A	380[B]	SER	CB-OG	-5.94	1.34	1.42
1	A	409[A]	VAL	CB-CG2	-5.50	1.41	1.52
1	A	409[B]	VAL	CB-CG2	-5.50	1.41	1.52
1	A	131[A]	ASN	CB-CG	-5.30	1.38	1.51
1	A	131[B]	ASN	CB-CG	-5.30	1.38	1.51

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	409[A]	VAL	CA-CB-CG2	9.38	124.97	110.90
1	A	409[B]	VAL	CA-CB-CG2	9.38	124.97	110.90
1	A	409[A]	VAL	CG1-CB-CG2	-8.04	98.03	110.90
1	A	409[B]	VAL	CG1-CB-CG2	-8.04	98.03	110.90
1	A	139	ASP	CB-CG-OD2	7.42	124.98	118.30
1	A	450	PHE	CB-CG-CD1	6.45	125.32	120.80
1	A	283	ARG	NE-CZ-NH2	-6.06	117.27	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	209	ASP	CB-CG-OD1	5.38	123.15	118.30
1	A	291	ASP	CB-CG-OD1	5.31	123.08	118.30
1	A	122	ARG	CA-CB-CG	5.25	124.95	113.40
1	A	284	TYR	CB-CG-CD1	5.22	124.13	121.00
1	A	450	PHE	CB-CG-CD2	-5.15	117.19	120.80

There are no chirality outliers.

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	3855	3365	3633	24	0
2	B	28	18	25	0	0
2	C	28	22	25	0	0
3	A	7	0	0	0	0
4	A	2	0	0	0	0
5	A	4	0	0	1	0
6	A	980	0	0	17	0
All	All	4904	3405	3683	25	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 3.

All (25) 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:252[B]:ASN:ND2	6:A:610:HOH:O	1.63	1.24
1:A:252[B]:ASN:OD1	6:A:632[B]:HOH:O	1.60	1.20
1:A:240:GLN:NE2	6:A:612:HOH:O	1.79	1.12
1:A:252[B]:ASN:CG	6:A:610:HOH:O	1.92	0.93
1:A:198[A]:ARG:CZ	6:A:623:HOH:O	2.22	0.86
1:A:476[B]:SER:OG	6:A:613:HOH:O	1.97	0.81
1:A:252[B]:ASN:OD1	6:A:610:HOH:O	1.91	0.80
1:A:460[A]:GLU:OE2	6:A:614:HOH:O	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167[B]:THR:HG22	6:A:672:HOH:O	1.92	0.69
5:A:511:OXY:O1	6:A:615:HOH:O	2.01	0.69
1:A:220[B]:ASP:OD2	6:A:616:HOH:O	2.09	0.69
1:A:147:ILE:HD11	1:A:201[B]:MET:CE	2.31	0.61
1:A:1:ALA:HB3	6:A:687:HOH:O	2.02	0.59
1:A:118:CYS:SG	1:A:208[B]:CYS:SG	3.01	0.58
1:A:147:ILE:HD11	1:A:201[B]:MET:HE2	1.86	0.56
1:A:167[B]:THR:CG2	6:A:672:HOH:O	2.53	0.55
1:A:118:CYS:SG	1:A:208[B]:CYS:HB3	2.48	0.53
1:A:69[B]:LEU:HD11	1:A:125:PHE:CE2	2.44	0.52
1:A:340[B]:ARG:NH1	6:A:609:HOH:O	1.56	0.49
1:A:118:CYS:HA	1:A:208[B]:CYS:SG	2.55	0.45
1:A:374:SER:O	1:A:465[A]:ILE:HG13	2.17	0.45
1:A:147:ILE:HD11	1:A:201[B]:MET:HE3	1.99	0.44
1:A:198[A]:ARG:NH1	6:A:623:HOH:O	2.44	0.44
1:A:340[A]:ARG:NH2	6:A:609:HOH:O	2.41	0.41
1:A:340[A]:ARG:NH1	6:A:609:HOH:O	2.45	0.41

There are no symmetry-related clashes.

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	529/498 (106%)	518 (98%)	10 (2%)	1 (0%)	47 18

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	209	ASP

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	440/408 (108%)	432 (98%)	8 (2%)	59 24

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	117	TYR
1	A	122	ARG
1	A	143	ASP
1	A	246	ARG
1	A	340[A]	ARG
1	A	340[B]	ARG
1	A	450	PHE
1	A	463	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN

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](#)

4 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$
2	NAG	B	1	1,2	14,14,15	0.43	0	17,19,21	0.71	0
2	NAG	B	2	2	14,14,15	1.27	1 (7%)	17,19,21	2.06	4 (23%)
2	NAG	C	1	1,2	14,14,15	0.51	0	17,19,21	0.85	0
2	NAG	C	2	2	14,14,15	0.69	0	17,19,21	0.97	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	B	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	B	2	2	-	3/6/23/26	0/1/1/1
2	NAG	C	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	C	2	2	-	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)
2	B	2	NAG	C2-N2	3.55	1.52	1.46

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	NAG	O7-C7-C8	-4.75	113.24	122.06
2	B	2	NAG	C8-C7-N2	4.15	123.12	116.10
2	B	2	NAG	C1-O5-C5	3.47	116.90	112.19
2	B	2	NAG	C2-N2-C7	3.44	127.81	122.90
2	C	2	NAG	O4-C4-C3	-2.36	104.88	110.35

There are no chirality outliers.

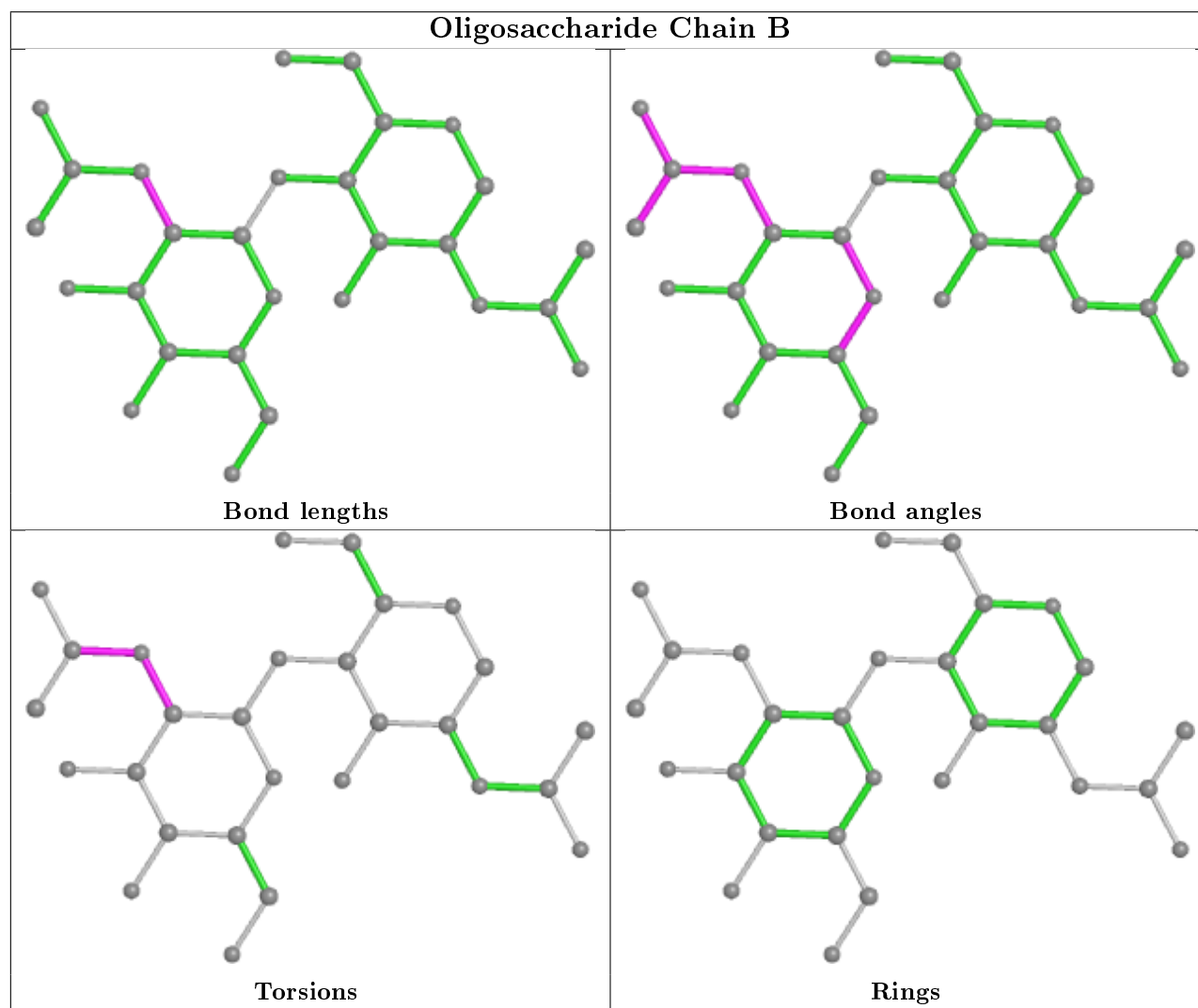
All (3) torsion outliers are listed below:

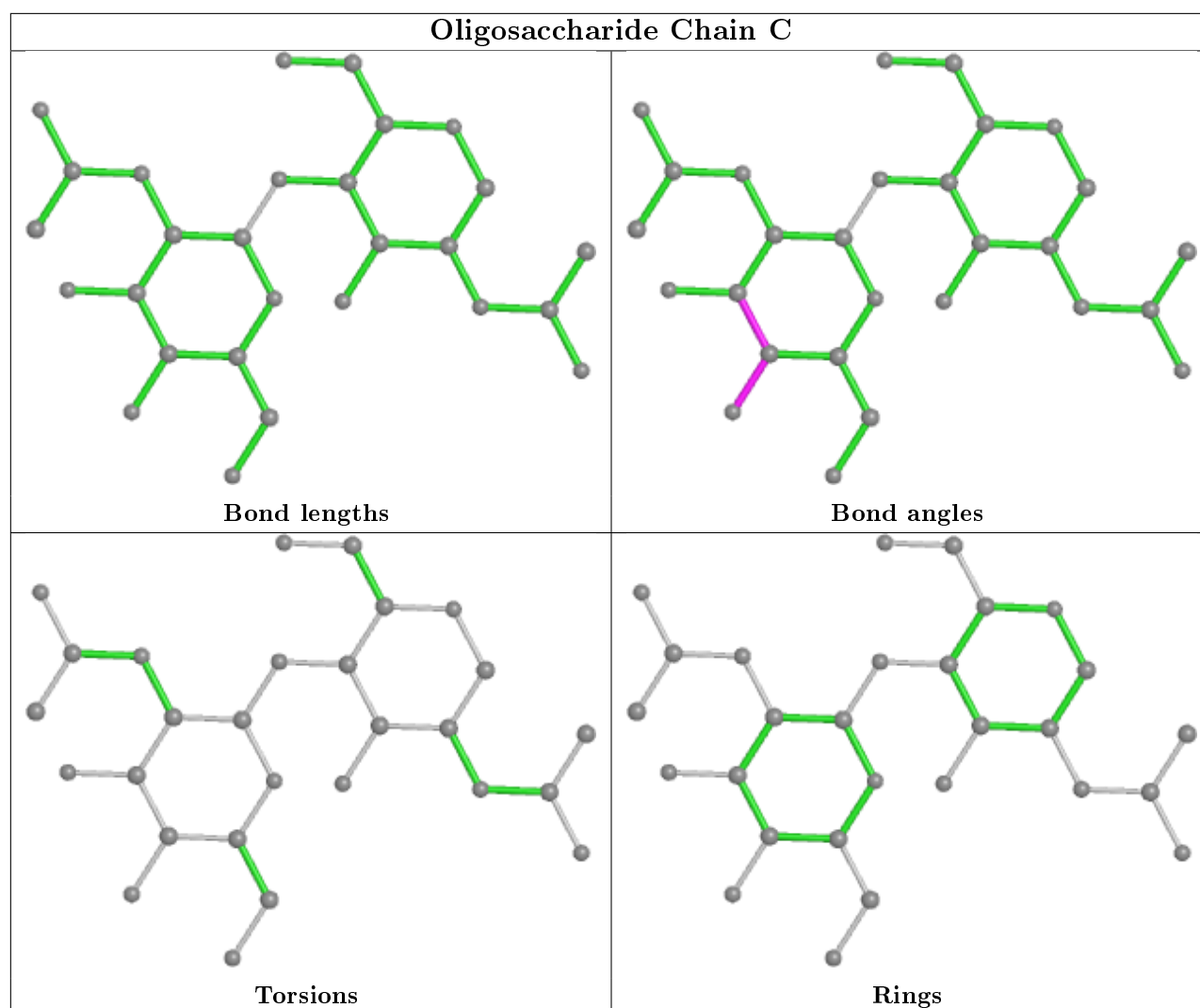
Mol	Chain	Res	Type	Atoms
2	B	2	NAG	C8-C7-N2-C2
2	B	2	NAG	O7-C7-N2-C2
2	B	2	NAG	C3-C2-N2-C7

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 11 ligands modelled in this entry, 9 are monoatomic - leaving 2 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	OXY	A	511	3	1,1,1	0.07	0	-		
5	OXY	A	510	-	1,1,1	0.64	0	-		

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	511	OXY	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	A	498/498 (100%)	-0.45	7 (1%) 75 63	6, 10, 19, 49	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	162	ILE	7.1
1	A	163	GLY	4.0
1	A	1	ALA	4.0
1	A	496	ASN	3.3
1	A	497	ILE	3.0
1	A	495	HIS	2.2
1	A	182	ASN	2.1

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

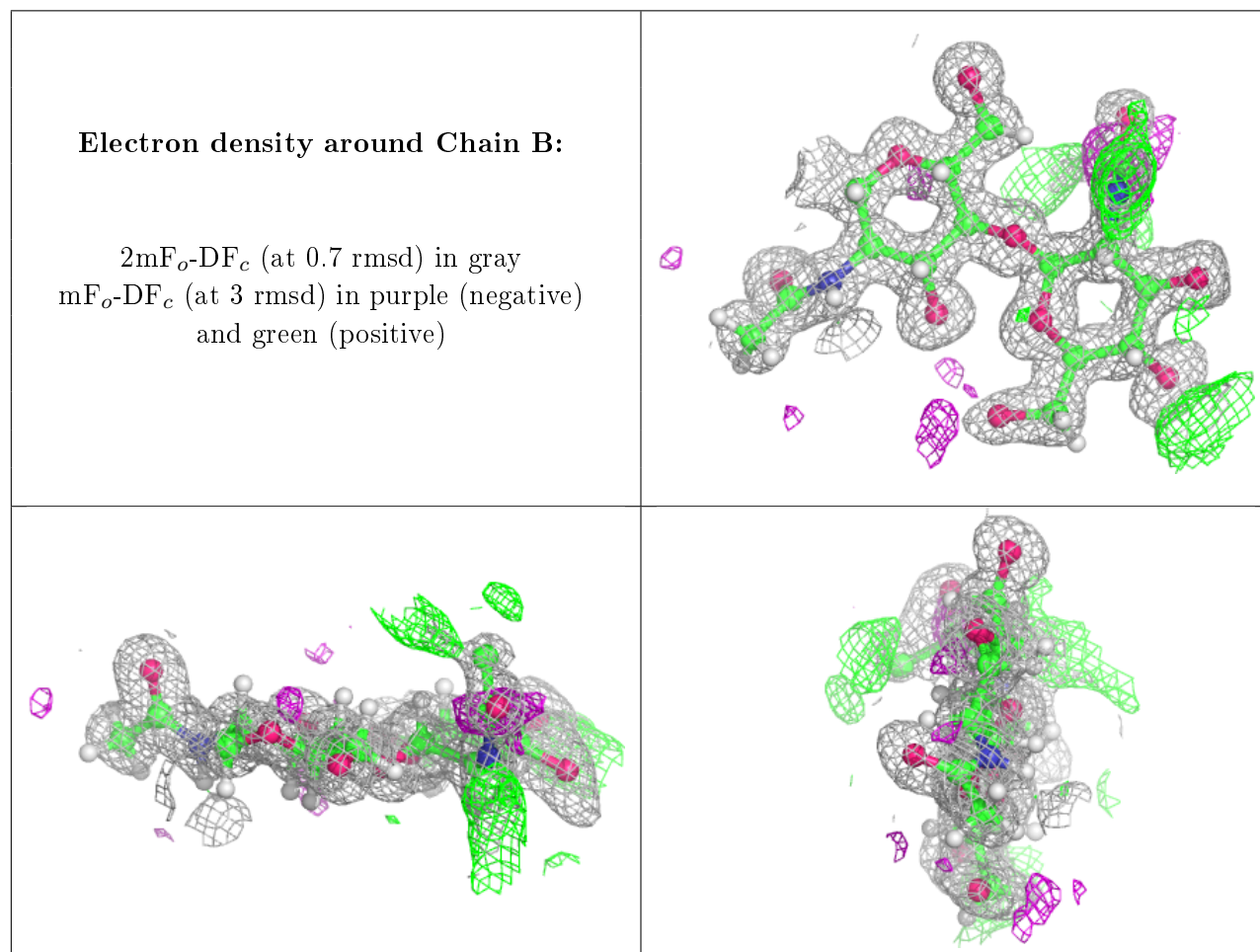
There are no non-standard protein/DNA/RNA residues in this entry.

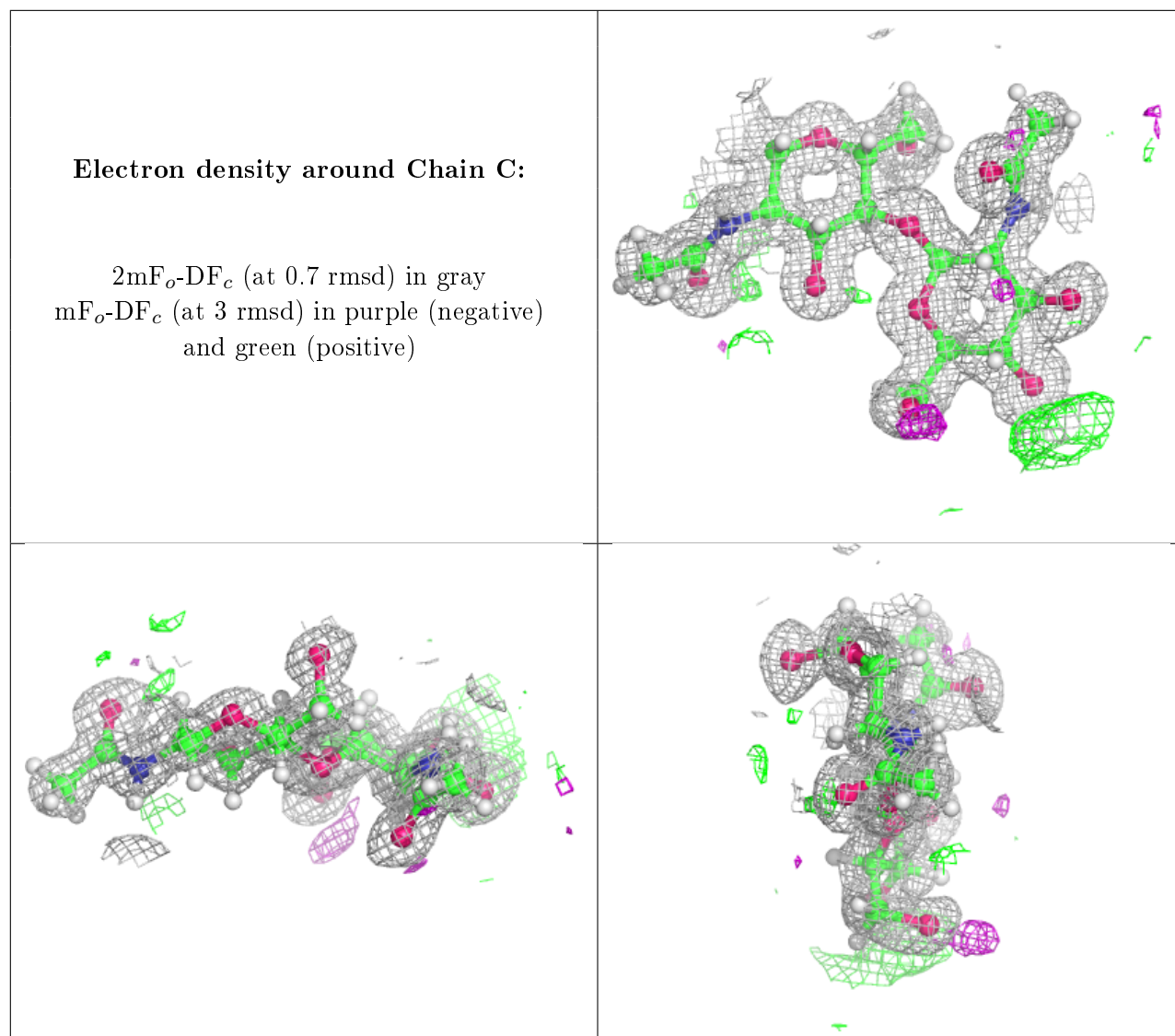
6.3 Carbohydrates [i](#)

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(Å ²)	Q<0.9
2	NAG	B	2	14/15	0.89	0.17	16,24,31,31	0
2	NAG	C	2	14/15	0.98	0.07	11,16,25,28	0
2	NAG	B	1	14/15	0.99	0.06	10,13,28,30	0
2	NAG	C	1	14/15	0.99	0.04	9,10,14,14	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
5	OXY	A	510	2/2	0.97	0.09	10,10,10,11	2
5	OXY	A	511	2/2	0.98	0.10	8,8,8,9	2
4	F	A	509[A]	1/1	0.99	0.07	10,10,10,10	1
4	F	A	509[B]	1/1	0.99	0.07	8,8,8,8	1
3	CU	A	501[A]	1/1	1.00	0.05	7,7,7,7	1
3	CU	A	503[B]	1/1	1.00	0.06	6,6,6,6	1
3	CU	A	502[A]	1/1	1.00	0.06	5,5,5,5	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	CU	A	502[B]	1/1	1.00	0.06	9,9,9,9	1
3	CU	A	504[A]	1/1	1.00	0.08	6,6,6,6	1
3	CU	A	503[A]	1/1	1.00	0.06	6,6,6,6	1
3	CU	A	501[B]	1/1	1.00	0.05	6,6,6,6	1

6.5 Other polymers [i](#)

There are no such residues in this entry.