



Full wwPDB X-ray Structure Validation Report

Feb 16, 2026 – 12:09 pm GMT

PDB ID : 9IGO / pdb_00009igo
Title : PR3 S203A I221N W222N G223T mutant in complex with the extracellular domain of CD177
Authors : Zheng-Gerard, C.; El Omari, K.; Seiradake, E.
Deposited on : 2025-02-19
Resolution : 1.50 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 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 : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.48

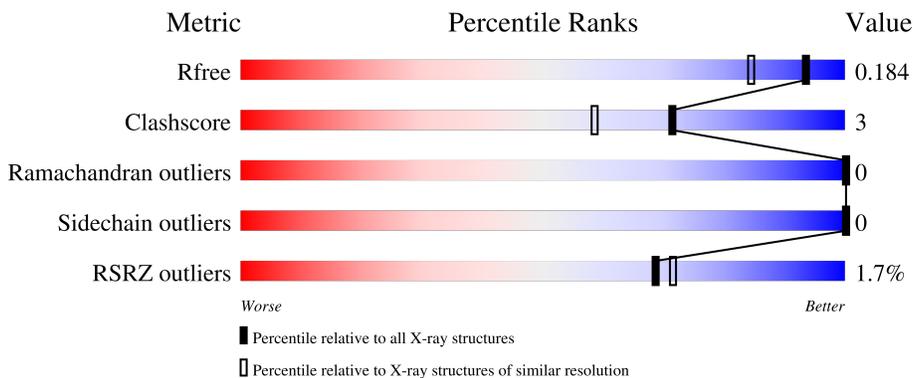
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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}	164625	3717 (1.50-1.50)
Clashscore	180529	4048 (1.50-1.50)
Ramachandran outliers	177936	3970 (1.50-1.50)
Sidechain outliers	177891	3967 (1.50-1.50)
RSRZ outliers	164620	3718 (1.50-1.50)

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	A	238	 89% 5% 5%
2	B	194	 84% 8% 8%
3	C	2	 50% 50%
3	D	2	 50% 50%

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 3695 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 Myeloblastin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	226	1790	1134	330	314	12	0	8	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	119	ILE	VAL	variant	UNP P24158
A	203	ALA	SER	engineered mutation	UNP P24158
A	221	ASN	ILE	engineered mutation	UNP P24158
A	222	GLY	TRP	engineered mutation	UNP P24158
A	223	THR	GLY	engineered mutation	UNP P24158
A	257	GLY	-	expression tag	UNP P24158
A	258	THR	-	expression tag	UNP P24158
A	259	LYS	-	expression tag	UNP P24158
A	260	HIS	-	expression tag	UNP P24158
A	261	HIS	-	expression tag	UNP P24158
A	262	HIS	-	expression tag	UNP P24158
A	263	HIS	-	expression tag	UNP P24158
A	264	HIS	-	expression tag	UNP P24158
A	265	HIS	-	expression tag	UNP P24158

- Molecule 2 is a protein called CD177 antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	178	1367	851	239	257	20	0	4	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	207	GLY	-	expression tag	UNP Q8N6Q3
B	208	THR	-	expression tag	UNP Q8N6Q3

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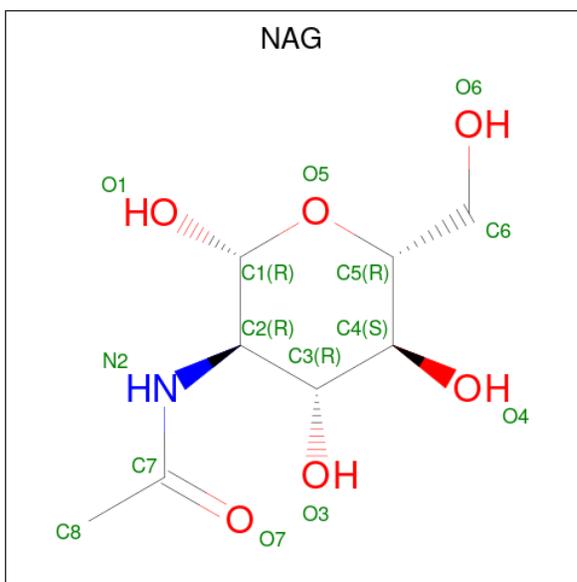
Chain	Residue	Modelled	Actual	Comment	Reference
B	209	LYS	-	expression tag	UNP Q8N6Q3
B	210	HIS	-	expression tag	UNP Q8N6Q3
B	211	HIS	-	expression tag	UNP Q8N6Q3
B	212	HIS	-	expression tag	UNP Q8N6Q3
B	213	HIS	-	expression tag	UNP Q8N6Q3
B	214	HIS	-	expression tag	UNP Q8N6Q3
B	215	HIS	-	expression tag	UNP Q8N6Q3

- Molecule 3 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	
			Total	C	N				O
3	C	2	28	16	2	10	0	0	0
3	D	2	28	16	2	10	0	0	0

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: C₈H₁₅NO₆).

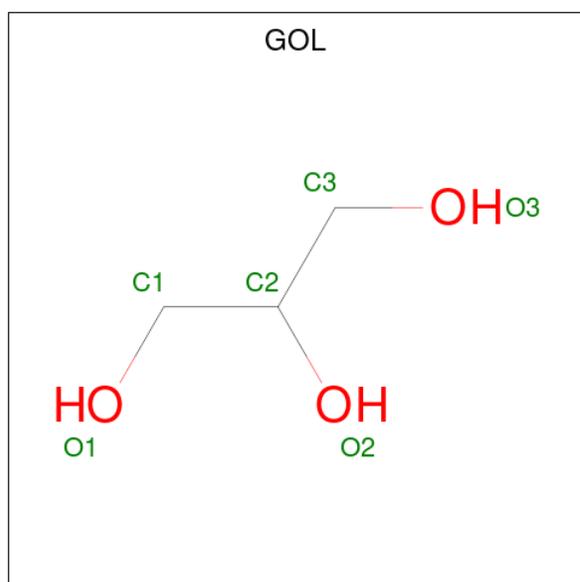


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			14	8	1	5		
4	A	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

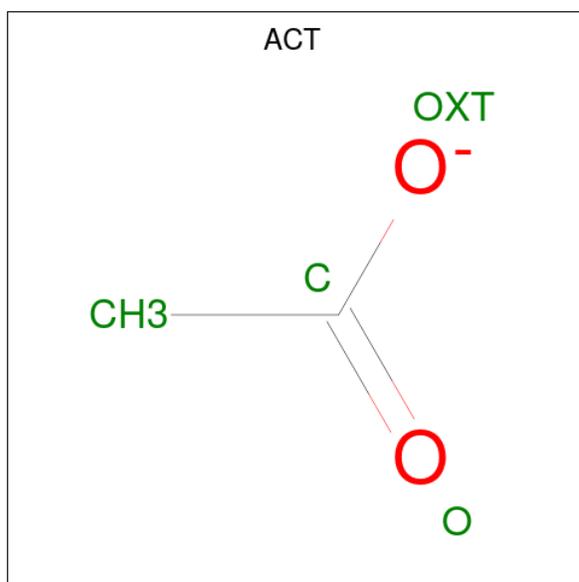
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Cl	0	0
			1	1		

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	3	3		
6	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C O 4 2 2	0	0
7	A	1	Total C O 4 2 2	0	0
7	A	1	Total C O 4 2 2	0	0

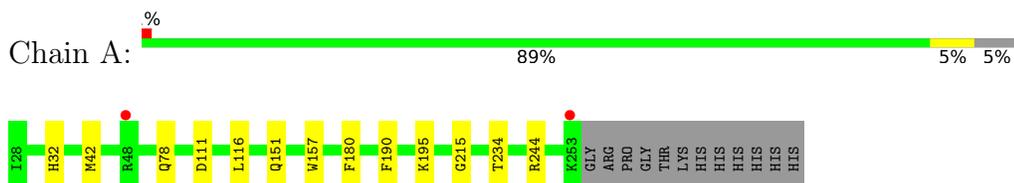
- Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	247	Total O 247 247	0	0
8	B	182	Total O 182 182	0	0

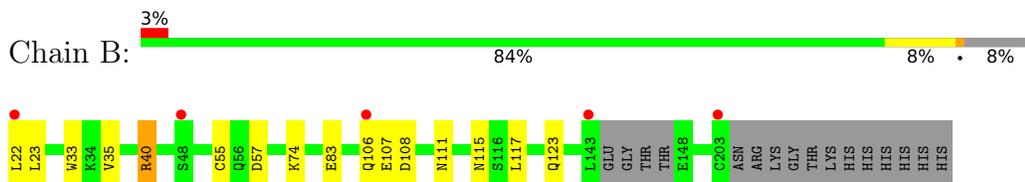
3 Residue-property plots [i](#)

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: Myeloblastin



- Molecule 2: CD177 antigen



- Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 3: 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 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	39.76Å 120.73Å 61.98Å 90.00° 96.99° 90.00°	Depositor
Resolution (Å)	43.09 – 1.50 43.09 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (43.09-1.50) 99.9 (43.09-1.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.56 (at 1.50Å)	Xtrriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.146 , 0.184 0.146 , 0.184	Depositor DCC
R_{free} test set	4684 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	22.1	Xtrriage
Anisotropy	0.033	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 53.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3695	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.29% 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: ACT, GOL, CL, 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	0.61	0/1857	0.69	0/2530
2	B	0.51	0/1407	0.63	0/1910
All	All	0.57	0/3264	0.67	0/4440

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	B	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	40[A]	ARG	Sidechain
2	B	40[B]	ARG	Sidechain

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	1790	0	1775	12	0
2	B	1367	0	1345	12	0
3	C	28	0	25	0	0
3	D	28	0	25	0	0
4	A	28	0	26	1	0
5	A	1	0	0	0	0
6	A	6	0	8	0	0
6	B	6	0	8	0	0
7	A	12	0	9	1	0
8	A	247	0	0	4	0
8	B	182	0	0	1	0
All	All	3695	0	3221	21	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 (21) 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:32[B]:HIS:CE1	4:A:302:NAG:H83	2.18	0.78
2:B:22:LEU:N	8:B:401:HOH:O	2.22	0.71
1:A:78:GLN:HG3	8:A:575:HOH:O	1.93	0.69
2:B:23:LEU:HD12	2:B:108:ASP:OD2	1.94	0.67
1:A:78:GLN:NE2	8:A:405:HOH:O	2.29	0.64
1:A:190:PHE:CZ	2:B:117[A]:LEU:HG	2.35	0.61
1:A:151[A]:GLN:OE1	8:A:401:HOH:O	2.17	0.57
1:A:244:ARG:NH1	7:A:305:ACT:OXT	2.38	0.57
2:B:35:VAL:HG11	2:B:123:GLN:NE2	2.24	0.52
2:B:83:GLU:H	2:B:83:GLU:CD	2.20	0.47
2:B:106:GLN:HG3	2:B:107:GLU:HG2	1.97	0.47
1:A:111:ASP:HB3	1:A:116:LEU:HB2	1.98	0.46
2:B:33:TRP:CE2	2:B:40[B]:ARG:HD3	2.52	0.45
1:A:180:PHE:CE1	2:B:117[B]:LEU:HD21	2.51	0.45
1:A:190:PHE:CE2	2:B:117[B]:LEU:HD22	2.52	0.45
1:A:195:LYS:NZ	8:A:403:HOH:O	2.23	0.43
2:B:55:CYS:HB3	2:B:111:ASN:CG	2.43	0.43
1:A:215:GLY:HA2	1:A:234:THR:O	2.19	0.43
2:B:57:ASP:OD1	2:B:74:LYS:HG2	2.19	0.42
2:B:115:ASN:OD1	2:B:117[B]:LEU:HB2	2.19	0.41
1:A:42[B]:MET:HG3	1:A:157:TRP:CZ3	2.56	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	232/238 (98%)	228 (98%)	4 (2%)	0	100	100
2	B	178/194 (92%)	177 (99%)	1 (1%)	0	100	100
All	All	410/432 (95%)	405 (99%)	5 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	198/200 (99%)	198 (100%)	0	100	100
2	B	160/170 (94%)	160 (100%)	0	100	100
All	All	358/370 (97%)	358 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	171	GLN
2	B	182	GLN
2	B	186	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
3	NAG	C	1	3,1	14,14,15	0.26	0	17,19,21	0.44	0
3	NAG	C	2	3	14,14,15	0.53	0	17,19,21	0.79	1 (5%)
3	NAG	D	1	3,2	14,14,15	0.43	0	17,19,21	0.78	1 (5%)
3	NAG	D	2	3	14,14,15	0.59	0	17,19,21	0.65	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	NAG	C	1	3,1	-	0/6/23/26	0/1/1/1
3	NAG	C	2	3	-	0/6/23/26	0/1/1/1
3	NAG	D	1	3,2	-	0/6/23/26	0/1/1/1
3	NAG	D	2	3	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1	NAG	C1-O5-C5	2.85	116.05	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2	NAG	C1-O5-C5	2.48	115.55	112.19

There are no chirality outliers.

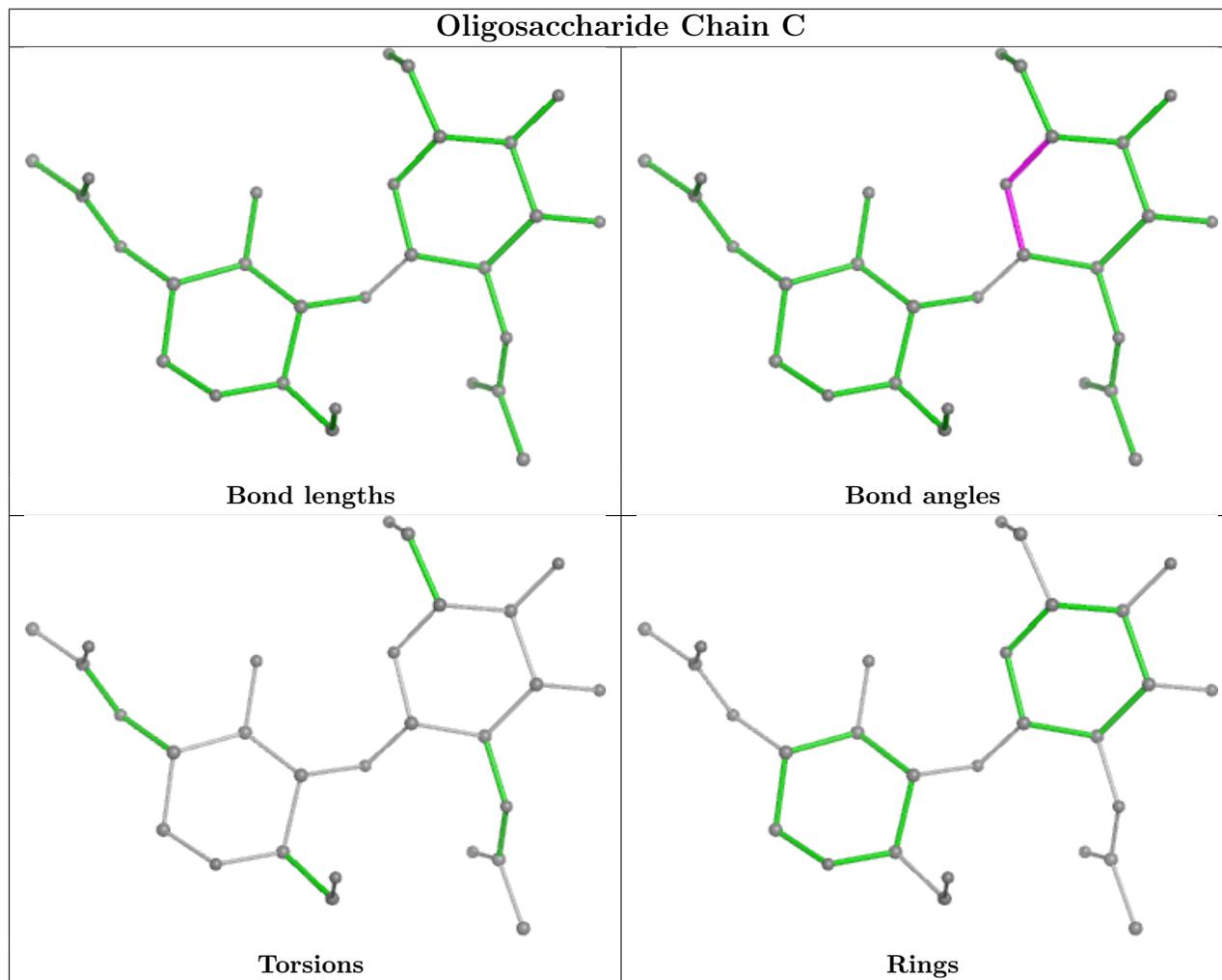
All (2) torsion outliers are listed below:

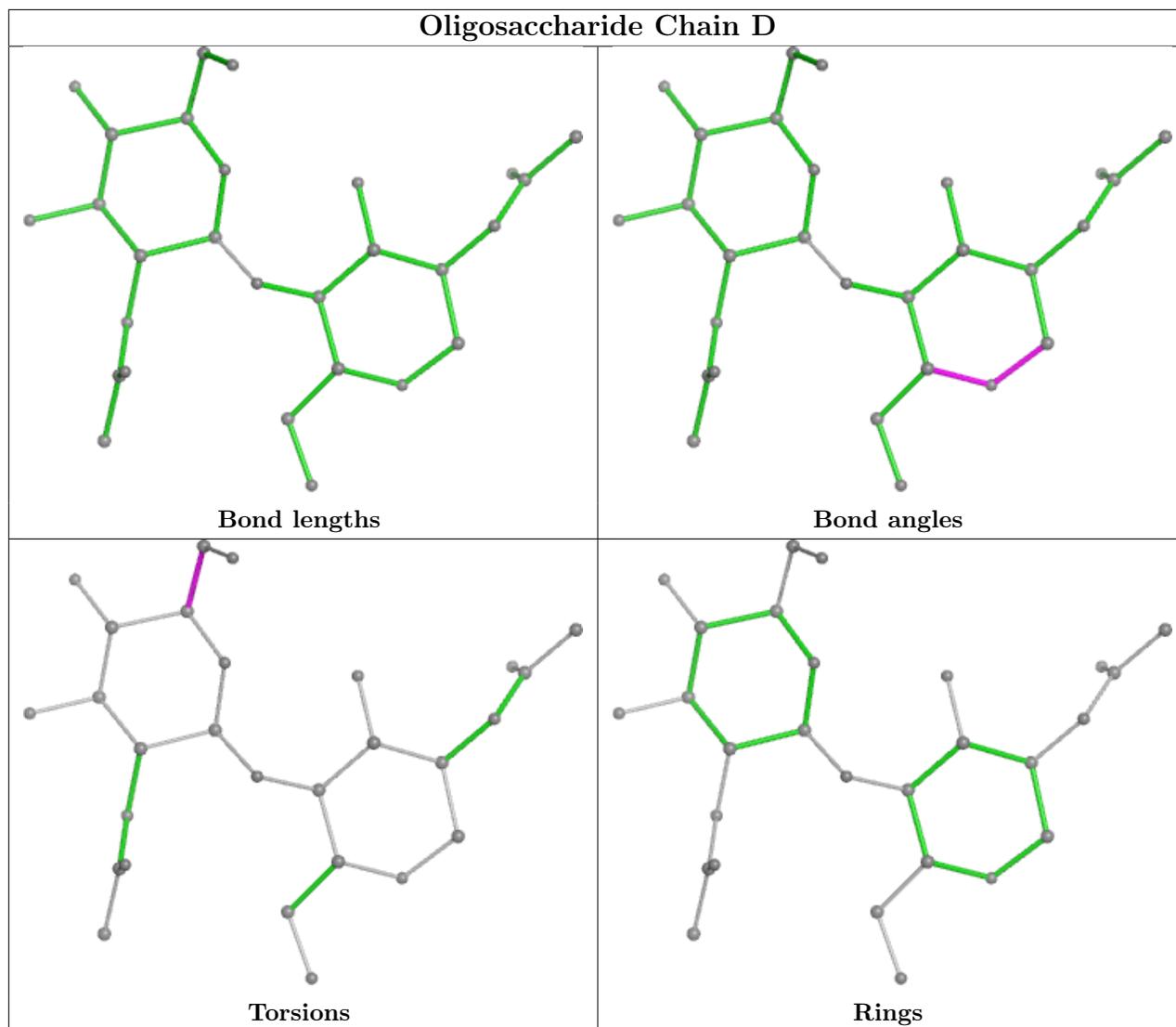
Mol	Chain	Res	Type	Atoms
3	D	2	NAG	O5-C5-C6-O6
3	D	2	NAG	C4-C5-C6-O6

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 8 ligands modelled in this entry, 1 is monoatomic - leaving 7 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$
7	ACT	A	305	-	3,3,3	1.38	1 (33%)	3,3,3	1.48	0
6	GOL	A	304	-	5,5,5	1.31	1 (20%)	5,5,5	1.21	1 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	ACT	A	307	-	3,3,3	1.49	1 (33%)	3,3,3	0.93	0
6	GOL	B	301	-	5,5,5	1.18	1 (20%)	5,5,5	0.80	0
4	NAG	A	302	1	14,14,15	0.62	1 (7%)	17,19,21	0.43	0
4	NAG	A	301	1	14,14,15	0.69	0	17,19,21	0.51	0
7	ACT	A	306	-	3,3,3	1.55	1 (33%)	3,3,3	1.54	1 (33%)

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
6	GOL	B	301	-	-	2/4/4/4	-
6	GOL	A	304	-	-	3/4/4/4	-
4	NAG	A	301	1	-	0/6/23/26	0/1/1/1
4	NAG	A	302	1	-	0/6/23/26	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	305	ACT	CH3-C	2.25	1.58	1.49
7	A	307	ACT	CH3-C	2.21	1.58	1.49
7	A	306	ACT	CH3-C	2.20	1.58	1.49
6	B	301	GOL	O2-C2	-2.19	1.36	1.43
6	A	304	GOL	C1-C2	2.14	1.60	1.51
4	A	302	NAG	C1-C2	2.00	1.55	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	306	ACT	OXT-C-O	2.10	129.80	122.05
6	A	304	GOL	O2-C2-C3	2.03	118.06	109.12

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	304	GOL	O1-C1-C2-C3
6	B	301	GOL	C1-C2-C3-O3
6	B	301	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
6	A	304	GOL	O1-C1-C2-O2
6	A	304	GOL	O2-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	A	305	ACT	1	0
4	A	302	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	A	226/238 (94%)	-0.32	2 (0%) 81 83	12, 24, 42, 70	8 (3%)
2	B	178/194 (91%)	0.16	5 (2%) 55 58	16, 32, 60, 75	4 (2%)
All	All	404/432 (93%)	-0.11	7 (1%) 69 71	12, 27, 53, 75	12 (2%)

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	22	LEU	7.7
2	B	143	LEU	5.9
1	A	253	LYS	3.5
2	B	48	SER	2.8
2	B	106	GLN	2.8
1	A	48[A]	ARG	2.5
2	B	203	CYS	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.

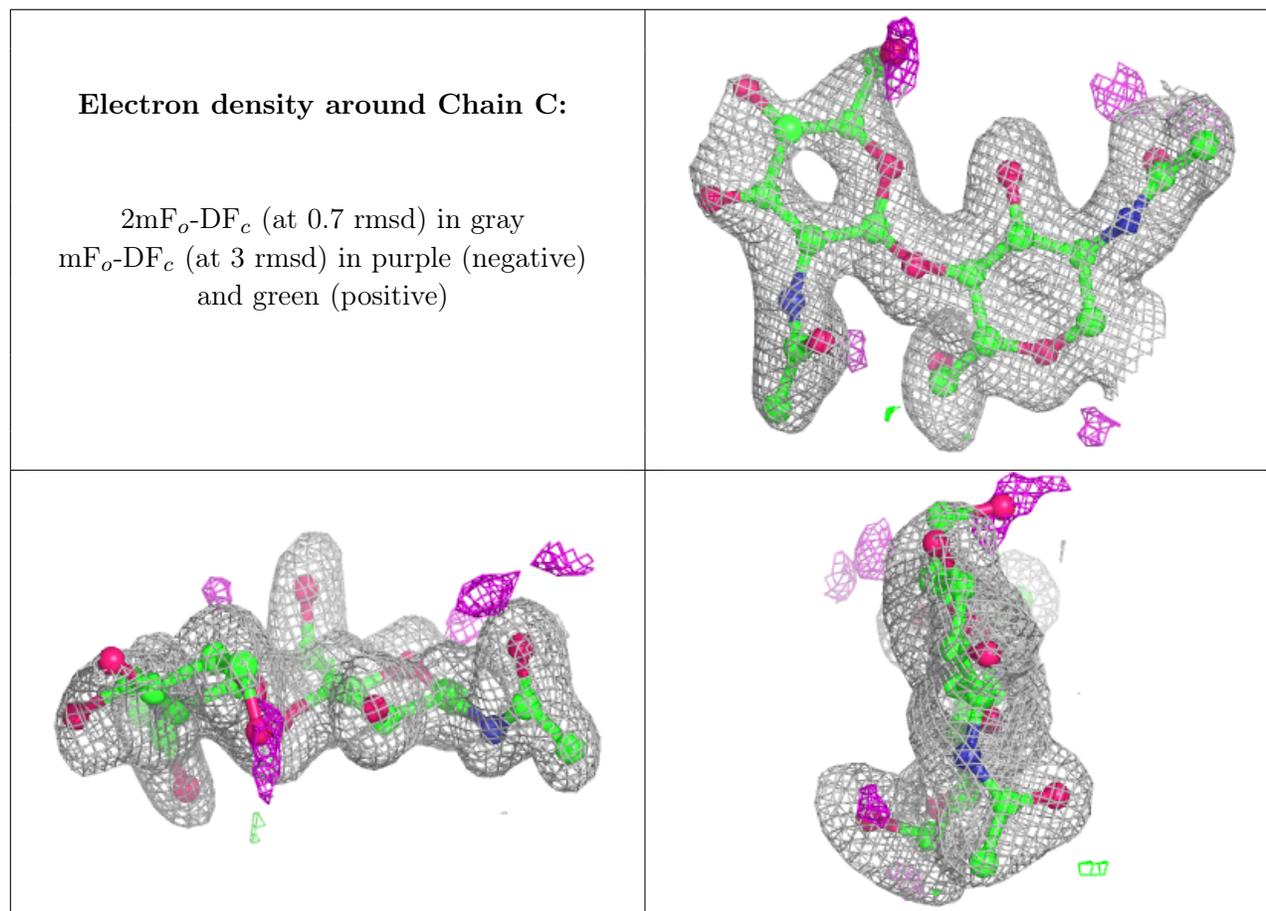
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	NAG	D	2	14/15	0.78	0.15	64,70,77,78	0
3	NAG	C	2	14/15	0.84	0.14	56,63,74,77	0

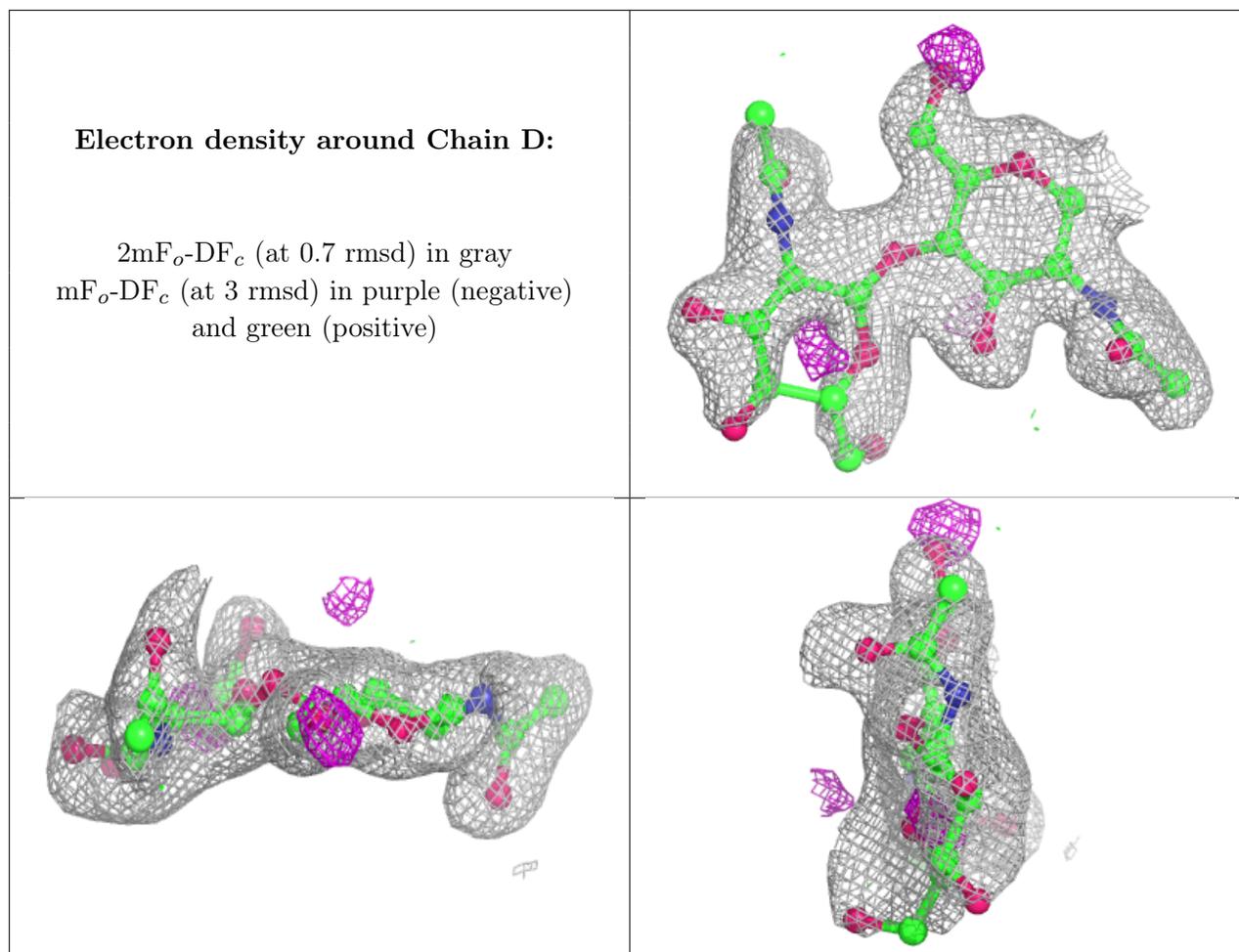
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAG	D	1	14/15	0.94	0.09	36,39,53,54	0
3	NAG	C	1	14/15	0.96	0.07	28,33,44,46	0

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(Å ²)	Q<0.9
4	NAG	A	301	14/15	0.69	0.18	68,74,80,80	0
4	NAG	A	302	14/15	0.79	0.14	48,59,64,66	0
7	ACT	A	306	4/4	0.83	0.15	50,51,53,54	0
6	GOL	A	304	6/6	0.91	0.12	32,36,49,53	0
6	GOL	B	301	6/6	0.95	0.10	46,49,51,52	0
5	CL	A	303	1/1	0.95	0.14	79,79,79,79	0
7	ACT	A	305	4/4	0.97	0.07	38,41,41,42	0
7	ACT	A	307	4/4	0.98	0.06	25,26,26,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.