



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 29, 2025 – 01:29 PM EDT

PDB ID : 4N35 / pdb_00004n35
Title : Structure of langerin CRD I313 complexed with GlcNAc-beta1-3Gal-beta1-4
Glc-beta-CH2CH2N3
Authors : Feinberg, H.; Rowntree, T.J.W.; Tan, S.L.W.; Drickamer, K.; Weis, W.I.;
Taylor, M.E.
Deposited on : 2013-10-06
Resolution : 1.85 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 Phenix2.0rc1
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0rc1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

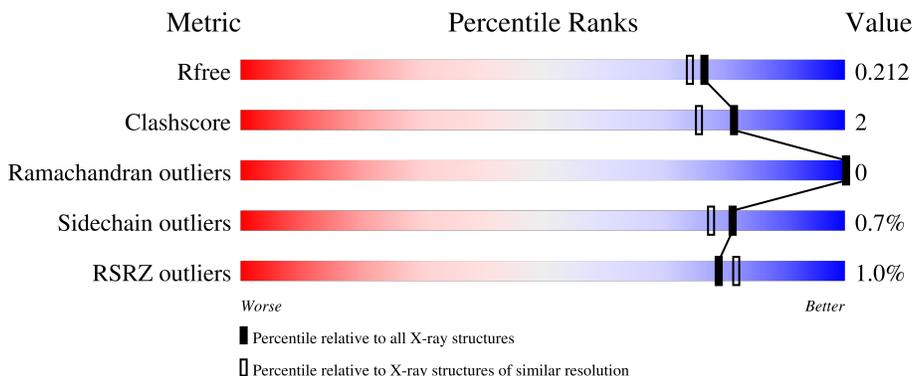
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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.



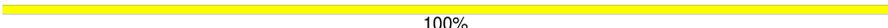
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	3097 (1.86-1.86)
Clashscore	180529	3359 (1.86-1.86)
Ramachandran outliers	177936	3335 (1.86-1.86)
Sidechain outliers	177891	3335 (1.86-1.86)
RSRZ outliers	164620	3097 (1.86-1.86)

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 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	136	 89% 5% 6%
1	B	136	 86% 8% 6%
1	C	136	 89% 7% .
1	D	136	 88% 5% . 6%
2	E	3	 67% 33%

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Mol	Chain	Length	Quality of chain
2	F	3	 67% 33%
2	H	3	 67% 33%
3	G	2	 100%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 4953 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.

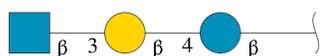
- Molecule 1 is a protein called C-type lectin domain family 4 member K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	128	1044	680	169	190	5	0	1	0
1	B	128	1044	680	169	190	5	0	1	0
1	C	130	1081	702	179	195	5	0	4	0
1	D	128	1052	683	172	192	5	0	1	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	278	ALA	VAL	variant	UNP Q9UJ71
A	313	ILE	LYS	engineered mutation	UNP Q9UJ71
B	278	ALA	VAL	variant	UNP Q9UJ71
B	313	ILE	LYS	engineered mutation	UNP Q9UJ71
C	278	ALA	VAL	variant	UNP Q9UJ71
C	313	ILE	LYS	engineered mutation	UNP Q9UJ71
D	278	ALA	VAL	variant	UNP Q9UJ71
D	313	ILE	LYS	engineered mutation	UNP Q9UJ71

- Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose-(1-4)-beta-D-glucopyranose.



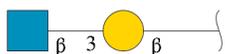
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	E	3	37	20	1	16	0	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	F	3	Total	C	N	O	0	0	0
			37	20	1	16			
2	H	3	Total	C	N	O	0	0	0
			37	20	1	16			

- Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-beta-D-galactopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	G	2	Total	C	N	O	0	0	0
			26	14	1	11			

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Ca	0	0
			1	1		
4	B	1	Total	Ca	0	0
			1	1		
4	C	1	Total	Ca	0	0
			1	1		
4	D	1	Total	Ca	0	0
			1	1		

- Molecule 5 is water.

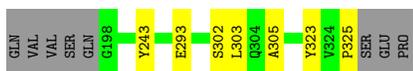
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	140	Total	O	0	0
			140	140		
5	B	145	Total	O	0	0
			145	145		
5	C	135	Total	O	0	0
			135	135		
5	D	171	Total	O	0	0
			171	171		

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: C-type lectin domain family 4 member K

Chain A: 



- Molecule 1: C-type lectin domain family 4 member K

Chain B: 



- Molecule 1: C-type lectin domain family 4 member K

Chain C: 



- Molecule 1: C-type lectin domain family 4 member K

Chain D: 



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

Chain E: 



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

Chain F:  67% 33%


BGG1
GAL2
MAG3

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

Chain H:  67% 33%


BGG1
GAL2
MAG3

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

Chain G:  100%


GAL1
MAG2

4 Data and refinement statistics

Property	Value	Source
Space group	P 42	Depositor
Cell constants a, b, c, α , β , γ	79.49Å 79.49Å 91.93Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.58 – 1.85 35.58 – 1.85	Depositor EDS
% Data completeness (in resolution range)	98.4 (35.58-1.85) 98.4 (35.58-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.10 (at 1.85Å)	Xtrriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.166 , 0.212 0.167 , 0.212	Depositor DCC
R_{free} test set	2438 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	19.9	Xtrriage
Anisotropy	0.146	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 35.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.044 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4953	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.57% 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: BGC, NAG, GAL, CA

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	0.41	0/1086	0.70	0/1480
1	B	0.41	0/1086	0.69	0/1480
1	C	0.41	0/1132	0.72	0/1541
1	D	0.42	0/1090	0.73	0/1484
All	All	0.41	0/4394	0.71	0/5985

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	A	1044	0	972	5	0
1	B	1044	0	972	8	0
1	C	1081	0	1019	6	0
1	D	1052	0	975	6	0
2	E	37	0	31	1	0
2	F	37	0	31	0	0
2	H	37	0	31	0	0
3	G	26	0	22	0	0
4	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	140	0	0	0	0
5	B	145	0	0	0	0
5	C	135	0	0	1	0
5	D	171	0	0	0	0
All	All	4953	0	4053	20	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 2.

All (20) 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:325:PRO:HD2	1:D:274:LYS:HD3	1.74	0.70
1:A:323:TYR:CE2	1:A:325:PRO:HG3	2.43	0.54
1:C:302:SER:O	1:C:305:ALA:HB2	2.08	0.53
1:B:325:PRO:HD2	1:C:274:LYS:HD3	1.94	0.50
1:B:274:LYS:HD3	1:C:325:PRO:HD2	1.94	0.50
1:A:293:GLU:OE2	2:E:3:NAG:O3	2.30	0.50
1:D:260:MET:HE3	1:D:260:MET:HB3	1.72	0.48
1:B:227:ASN:HB2	1:D:260:MET:SD	2.55	0.47
1:B:323:TYR:CE2	1:B:325:PRO:HG3	2.49	0.47
1:D:236:GLU:HG3	1:D:303:LEU:HD21	1.96	0.47
1:B:302:SER:O	1:B:305:ALA:HB2	2.14	0.46
1:C:281:TRP:CD2	1:C:286:PRO:HD3	2.52	0.45
1:A:302:SER:O	1:A:305:ALA:HB2	2.16	0.45
1:B:232:SER:HA	1:B:266:TRP:CE3	2.53	0.44
1:D:302:SER:O	1:D:305:ALA:HB2	2.18	0.43
1:B:224:VAL:HG12	1:D:259:GLY:H	1.83	0.42
1:A:303:LEU:HD23	1:A:303:LEU:HA	1.95	0.41
1:B:321:ARG:HA	1:B:322:PRO:HD3	1.91	0.41
1:C:232:SER:HA	1:C:266:TRP:CE3	2.54	0.41
1:C:320:LYS:NZ	5:C:550:HOH:O	2.53	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	127/136 (93%)	123 (97%)	4 (3%)	0	100	100
1	B	127/136 (93%)	125 (98%)	2 (2%)	0	100	100
1	C	132/136 (97%)	129 (98%)	3 (2%)	0	100	100
1	D	127/136 (93%)	125 (98%)	2 (2%)	0	100	100
All	All	513/544 (94%)	502 (98%)	11 (2%)	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	111/118 (94%)	110 (99%)	1 (1%)	75	70
1	B	111/118 (94%)	111 (100%)	0	100	100
1	C	116/118 (98%)	116 (100%)	0	100	100
1	D	111/118 (94%)	109 (98%)	2 (2%)	54	41
All	All	449/472 (95%)	446 (99%)	3 (1%)	81	78

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	243	TYR
1	D	243	TYR
1	D	260	MET

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

Mol	Chain	Res	Type
1	C	292	ASN
1	D	276	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](#)

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

5.5 Carbohydrates [i](#)

11 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	BGC	E	1	2	12,12,12	0.53	0	17,17,17	0.55	0
2	GAL	E	2	2	11,11,12	0.70	0	15,15,17	0.87	0
2	NAG	E	3	4,2	14,14,15	0.39	0	17,19,21	0.52	0
2	BGC	F	1	2	12,12,12	0.60	0	17,17,17	1.00	0
2	GAL	F	2	2	11,11,12	0.81	0	15,15,17	1.07	1 (6%)
2	NAG	F	3	4,2	14,14,15	0.43	0	17,19,21	0.54	0
3	GAL	G	1	3	12,12,12	0.77	1 (8%)	17,17,17	0.91	0
3	NAG	G	2	4,3	14,14,15	0.56	0	17,19,21	0.71	1 (5%)
2	BGC	H	1	2	12,12,12	0.54	0	17,17,17	0.64	0
2	GAL	H	2	2	11,11,12	0.78	0	15,15,17	0.99	0
2	NAG	H	3	4,2	14,14,15	0.60	1 (7%)	17,19,21	0.61	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
2	BGC	E	1	2	-	0/2/22/22	0/1/1/1
2	GAL	E	2	2	-	0/2/19/22	0/1/1/1
2	NAG	E	3	4,2	-	0/6/23/26	0/1/1/1
2	BGC	F	1	2	-	0/2/22/22	0/1/1/1
2	GAL	F	2	2	-	0/2/19/22	0/1/1/1
2	NAG	F	3	4,2	-	0/6/23/26	0/1/1/1
3	GAL	G	1	3	-	0/2/22/22	0/1/1/1
3	NAG	G	2	4,3	-	1/6/23/26	0/1/1/1
2	BGC	H	1	2	-	0/2/22/22	0/1/1/1
2	GAL	H	2	2	-	0/2/19/22	0/1/1/1
2	NAG	H	3	4,2	-	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)
3	G	1	GAL	C1-C2	2.15	1.57	1.52
2	H	3	NAG	C1-C2	2.04	1.55	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	2	GAL	C1-C2-C3	2.53	113.33	109.64
3	G	2	NAG	C1-O5-C5	2.36	115.34	112.19

There are no chirality outliers.

All (1) torsion outliers are listed below:

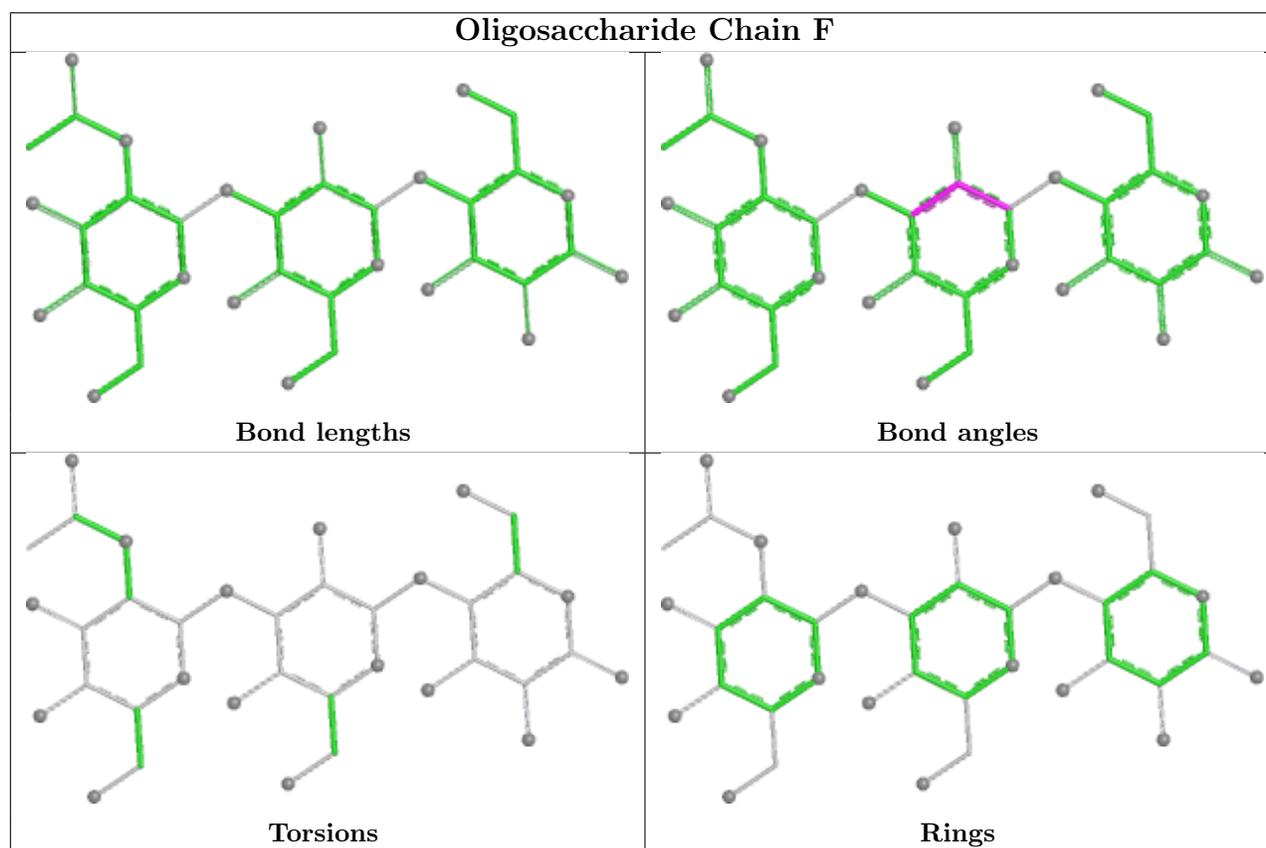
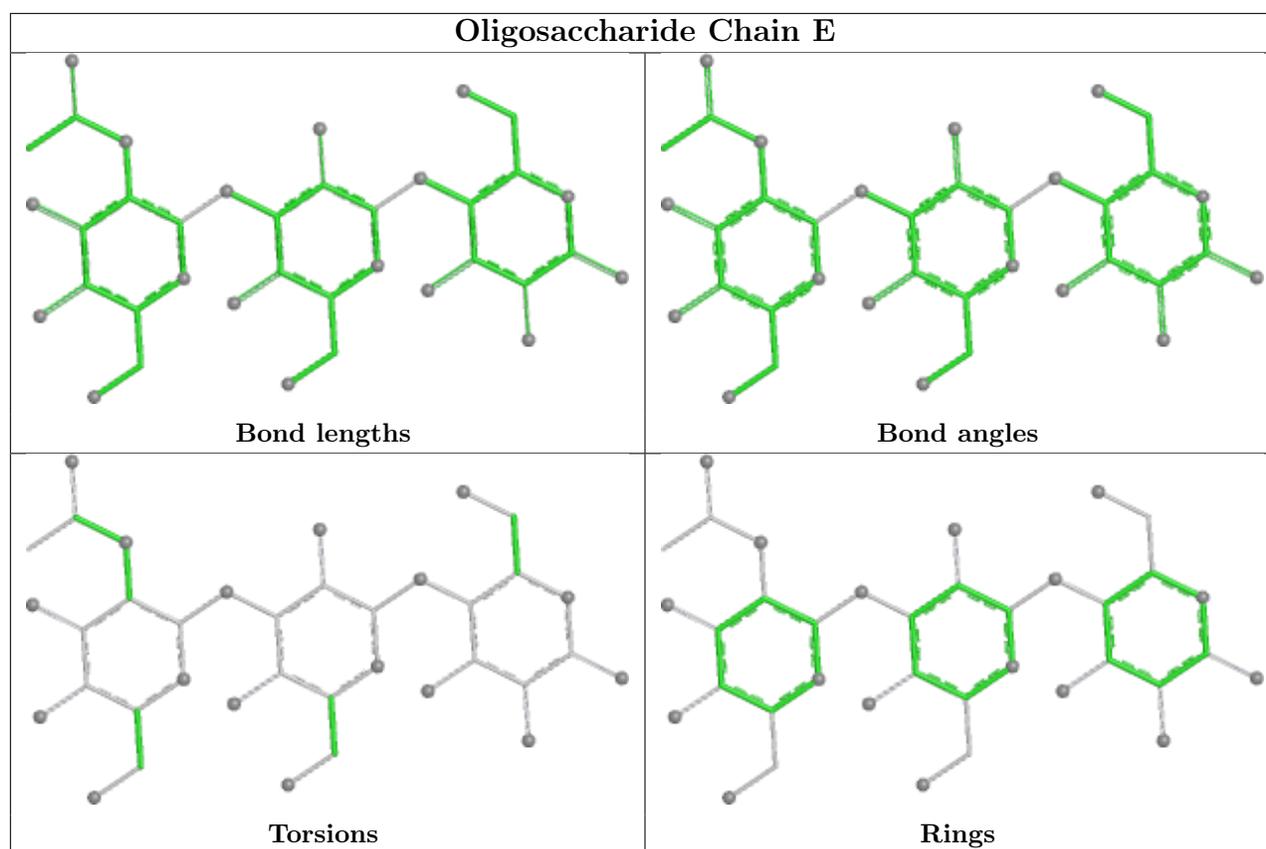
Mol	Chain	Res	Type	Atoms
3	G	2	NAG	C4-C5-C6-O6

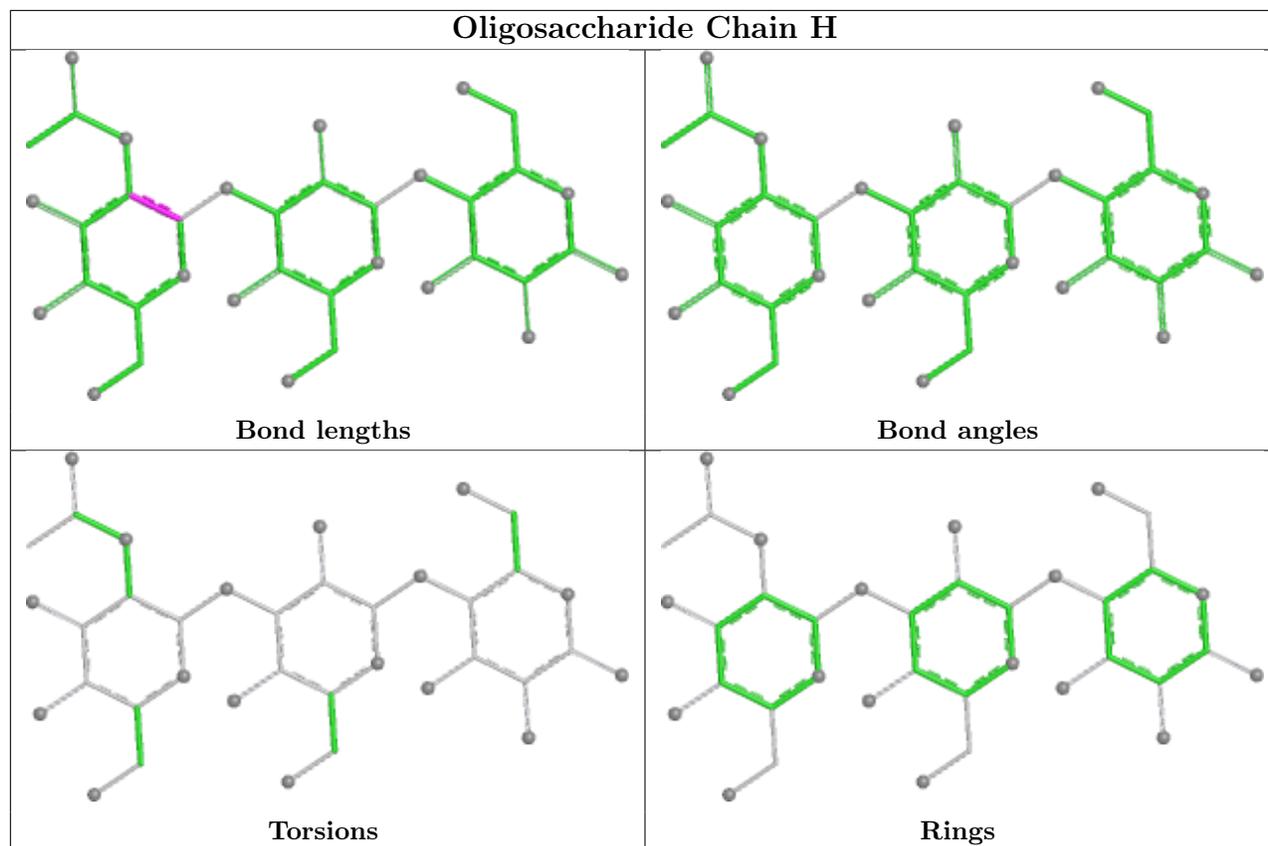
There are no ring outliers.

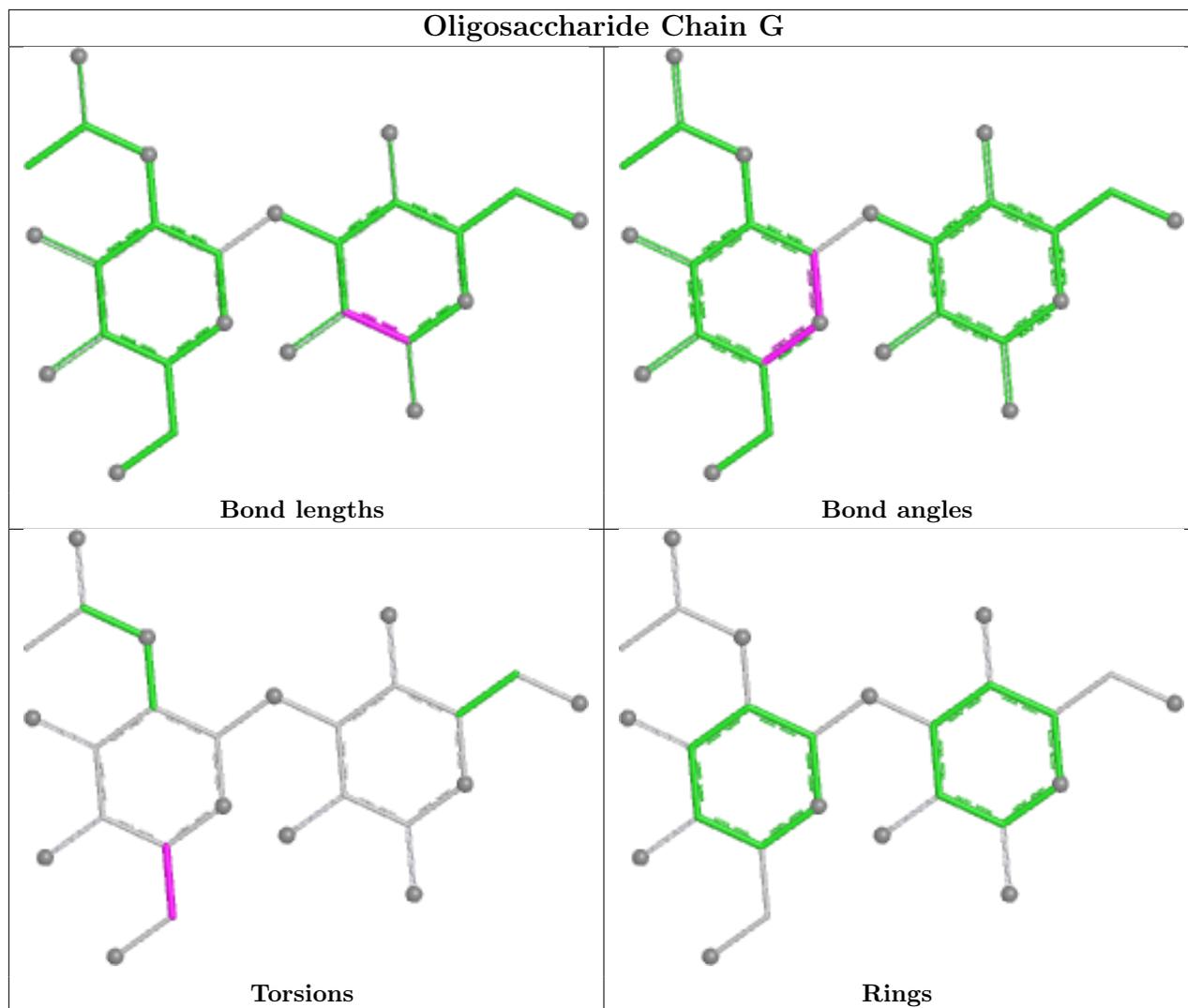
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	3	NAG	1	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 [i](#)

Of 4 ligands modelled in this entry, 4 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 [i](#)

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 [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	128/136 (94%)	-0.29	0 100 100	13, 21, 33, 46	1 (0%)
1	B	128/136 (94%)	-0.51	0 100 100	11, 18, 31, 57	1 (0%)
1	C	130/136 (95%)	-0.30	3 (2%) 61 63	12, 21, 36, 55	4 (3%)
1	D	128/136 (94%)	-0.43	2 (1%) 70 73	10, 18, 31, 59	1 (0%)
All	All	514/544 (94%)	-0.38	5 (0%) 79 82	10, 20, 33, 59	7 (1%)

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	323	TYR	2.8
1	D	324	VAL	2.8
1	C	259	GLY	2.2
1	C	324	VAL	2.2
1	C	260	MET	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.

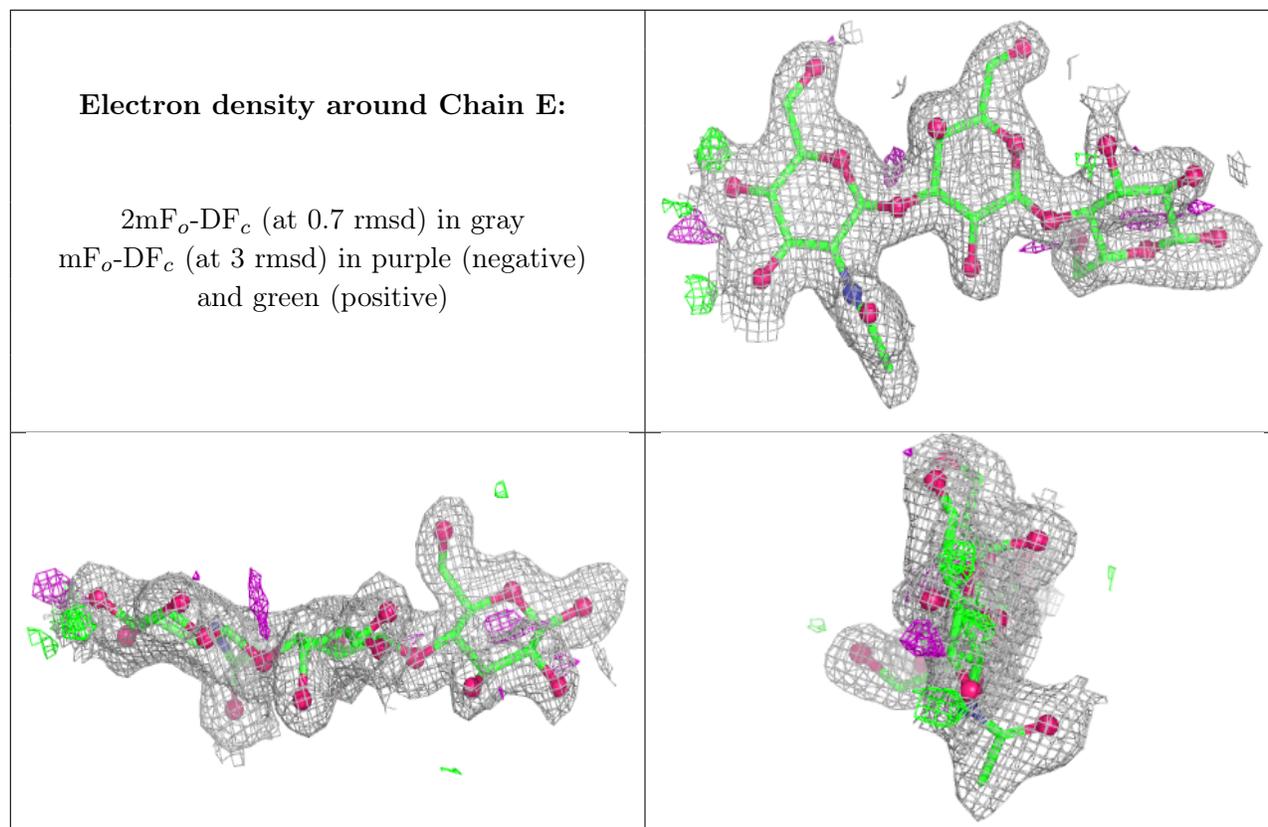
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	GAL	G	1	12/12	0.66	0.15	43,54,59,60	0
2	BGC	F	1	12/12	0.81	0.13	27,45,53,58	0

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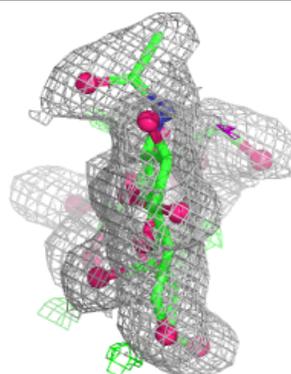
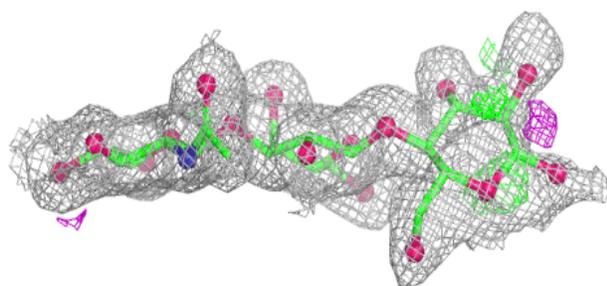
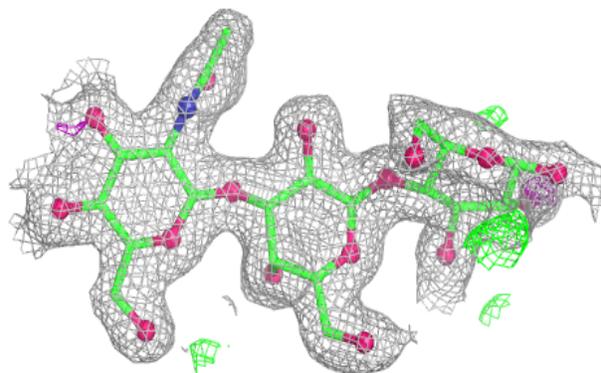
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	BGC	E	1	12/12	0.81	0.11	33,38,43,43	0
2	BGC	H	1	12/12	0.88	0.08	26,35,42,44	0
2	GAL	E	2	11/12	0.89	0.08	28,31,32,35	0
2	NAG	E	3	14/15	0.90	0.09	21,27,34,36	0
3	NAG	G	2	14/15	0.92	0.09	22,29,40,50	0
2	GAL	H	2	11/12	0.94	0.06	17,23,28,28	0
2	GAL	F	2	11/12	0.95	0.05	21,23,31,33	0
2	NAG	F	3	14/15	0.96	0.05	20,22,29,29	0
2	NAG	H	3	14/15	0.97	0.05	15,20,27,29	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.

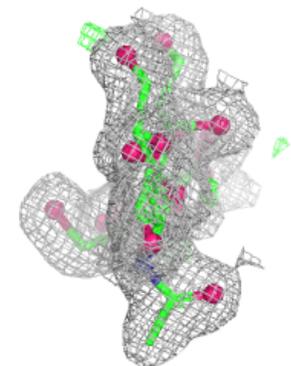
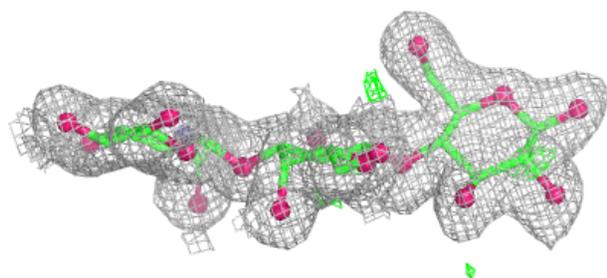
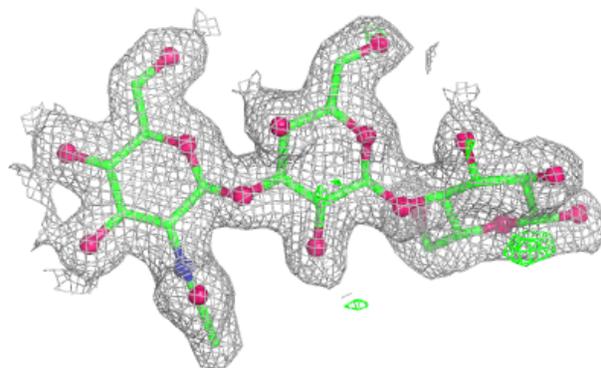


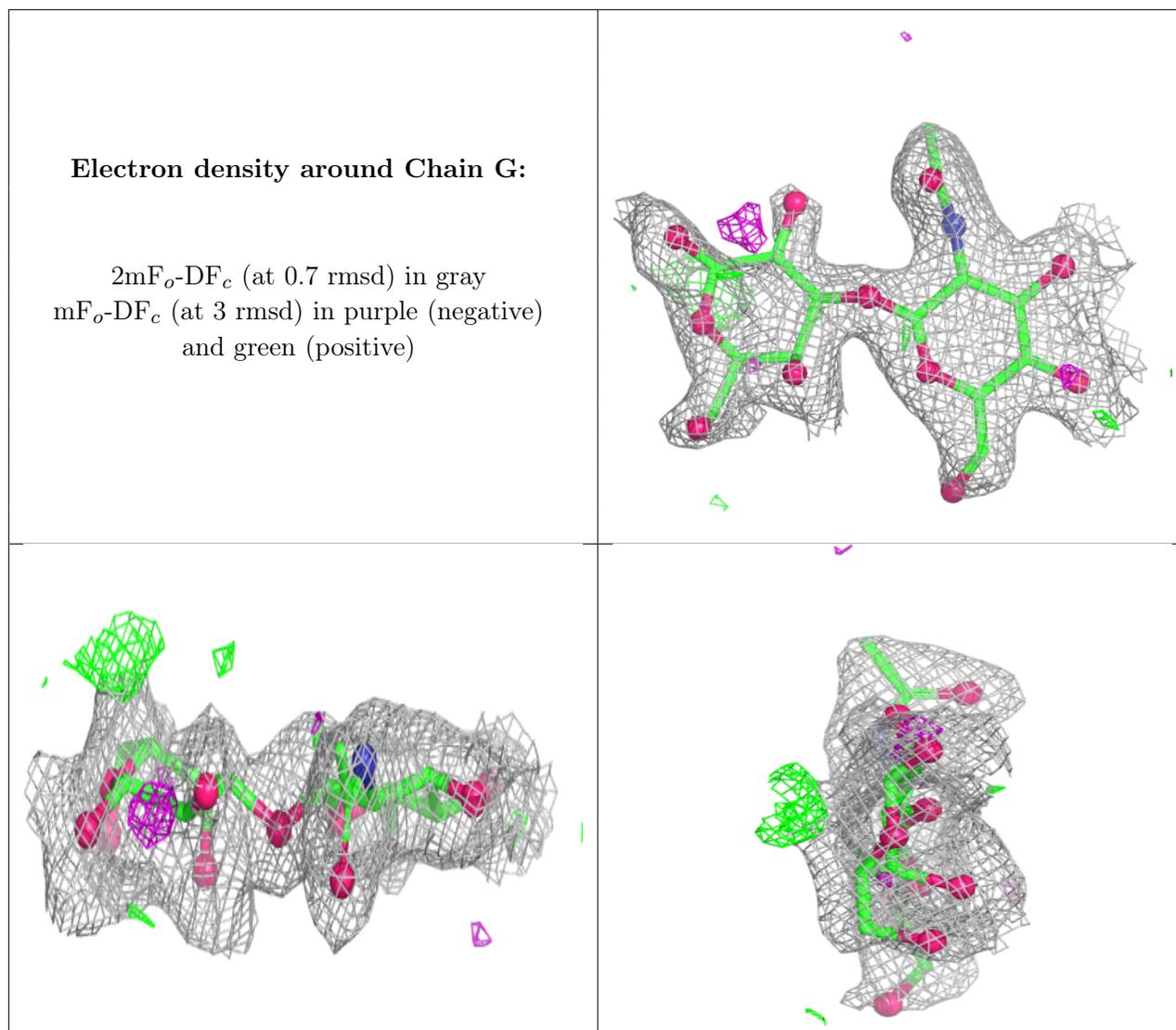
Electron density around Chain F:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around Chain H:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





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	CA	A	404	1/1	0.94	0.06	24,24,24,24	0
4	CA	C	403	1/1	0.98	0.03	23,23,23,23	0
4	CA	B	404	1/1	0.99	0.03	18,18,18,18	0
4	CA	D	404	1/1	1.00	0.02	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.