



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 25, 2026 – 11:46 AM EDT

PDB ID : 5BV7 / pdb_00005bv7
Title : Crystal structure of human LCAT (L4F, N5D) in complex with Fab of an agonistic antibody
Authors : Piper, D.E.; Romanow, W.G.; Thibault, S.T.; Walker, N.P.C.
Deposited on : 2015-06-04
Resolution : 2.45 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:

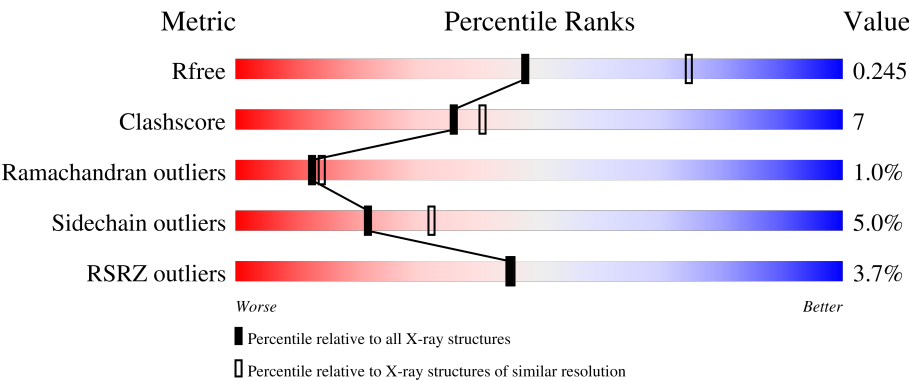
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry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

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.45 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	1190 (2.46-2.46)
Clashscore	190562	1229 (2.46-2.46)
Ramachandran outliers	187476	1218 (2.46-2.46)
Sidechain outliers	187428	1218 (2.46-2.46)
RSRZ outliers	180081	1190 (2.46-2.46)

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	422	3% 70% 18% • 11%
2	L	214	% 91% 7% ••
3	H	233	3% 82% 12% • 5%
4	B	213	3% 83% 14% •
5	C	238	7% 66% 22% • 8%

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Mol	Chain	Length	Quality of chain
6	D	7	29% 43% 29%

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 10030 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 Phosphatidylcholine-sterol acyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	377	Total	C	N	O	S	0	0	0
			3036	1972	510	539	15			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4	PHE	LEU	engineered mutation	UNP P04180
A	5	ASP	ASN	engineered mutation	UNP P04180
A	417	GLU	-	expression tag	UNP P04180
A	418	ASN	-	expression tag	UNP P04180
A	419	LEU	-	expression tag	UNP P04180
A	420	TYR	-	expression tag	UNP P04180
A	421	PHE	-	expression tag	UNP P04180
A	422	GLN	-	expression tag	UNP P04180

- Molecule 2 is a protein called 27C3 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	210	Total	C	N	O	S	0	0	0
			1575	979	270	322	4			

- Molecule 3 is a protein called 27C3 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	H	222	Total	C	N	O	S	0	0	0
			1657	1044	276	330	7			

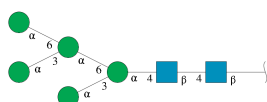
- Molecule 4 is a protein called Fab1 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	B	212	Total	C	N	O	S	0	0	0
			1592	998	261	327	6			

- Molecule 5 is a protein called Fab1 heavy chain.

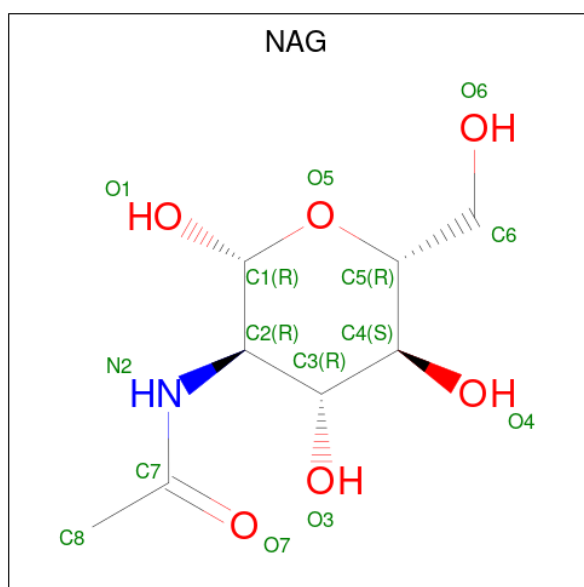
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	C	220	Total	C	N	O	S	0	0	0
			1671	1059	281	324	7			

- Molecule 6 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]alpha-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
6	D	7	Total	C	N	O	0	0	0
			83	46	2	35			

- Molecule 7 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



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

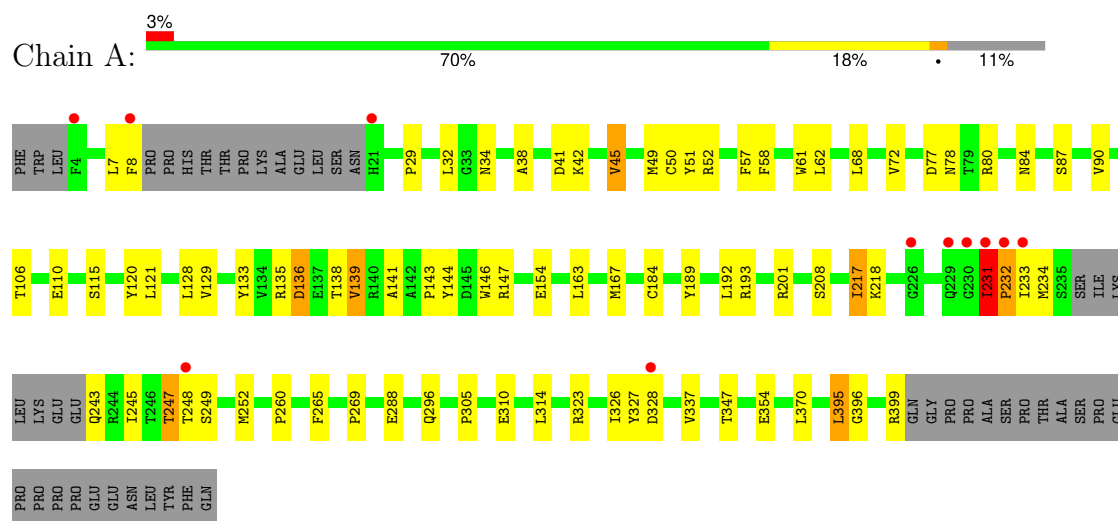
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	118	Total 118	O 118	0	0
8	L	107	Total 107	O 107	0	0
8	H	98	Total 98	O 98	0	0
8	B	52	Total 52	O 52	0	0
8	C	13	Total 13	O 13	0	0

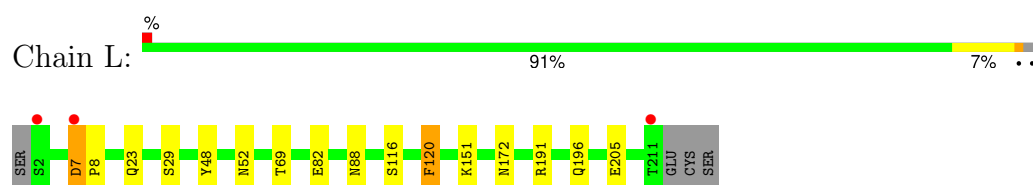
3 Residue-property plots [i](#)

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.

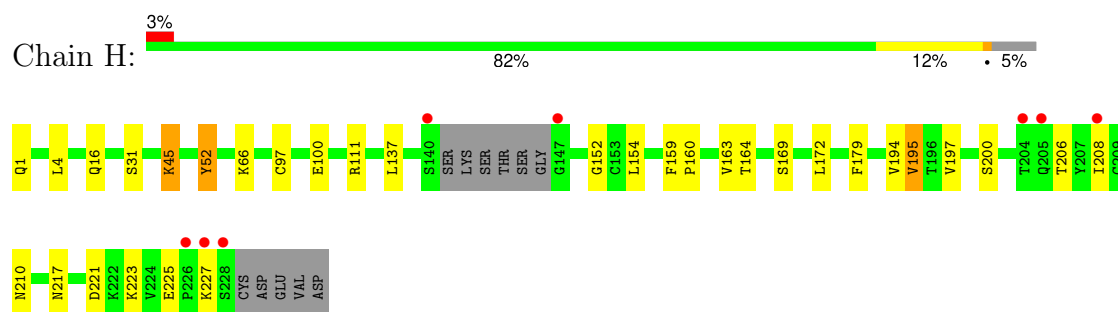
- Molecule 1: Phosphatidylcholine-sterol acyltransferase



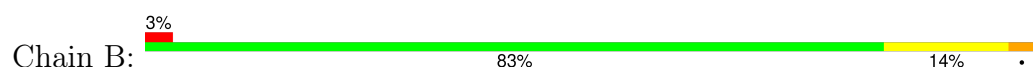
- Molecule 2: 27C3 light chain

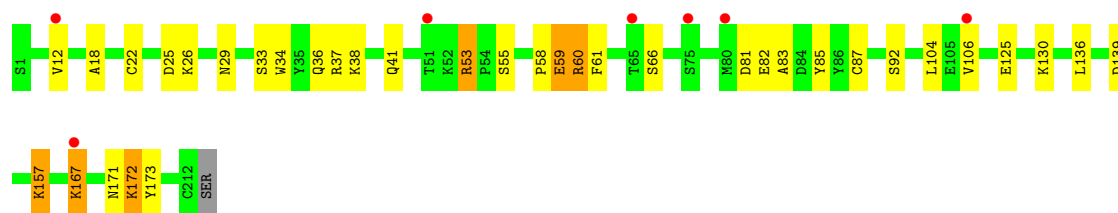


- Molecule 3: 27C3 heavy chain

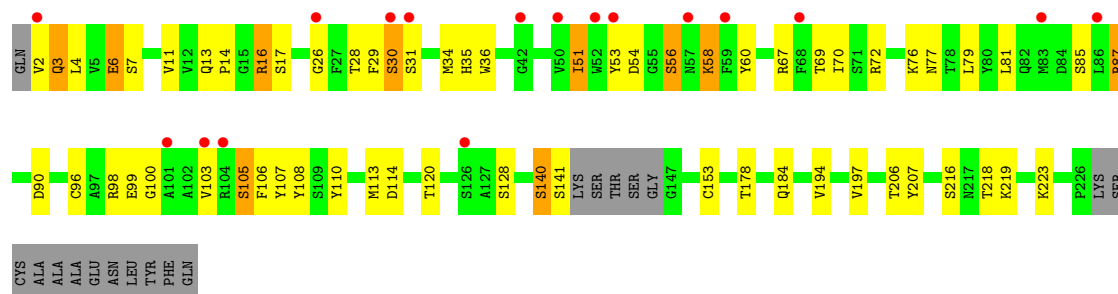


- Molecule 4: Fab1 light chain





● Molecule 5: Fab1 heavy chain



● Molecule 6: alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]alpha-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 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	57.94Å 127.59Å 256.08Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.88 – 2.45 29.88 – 2.45	Depositor EDS
% Data completeness (in resolution range)	93.2 (29.88-2.45) 93.2 (29.88-2.45)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 2.45Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.189 , 0.241 0.195 , 0.245	Depositor DCC
R_{free} test set	3224 reflections (4.54%)	wwPDB-VP
Wilson B-factor (Å ²)	43.8	Xtriage
Anisotropy	0.433	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 35.7	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	0.94	EDS
Total number of atoms	10030	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.91% 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: MAN, 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	0.60	0/3132	0.87	0/4272
2	L	0.63	0/1611	0.88	4/2199 (0.2%)
3	H	0.62	0/1697	0.93	1/2316 (0.0%)
4	B	0.57	0/1633	0.91	0/2231
5	C	0.53	0/1715	0.92	1/2335 (0.0%)
All	All	0.59	0/9788	0.90	6/13353 (0.0%)

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
1	A	0	1
5	C	0	1
All	All	0	2

There are no bond length outliers.

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	7	ASP	CA-C-N	6.22	125.78	119.19
2	L	7	ASP	C-N-CA	6.22	125.78	119.19
2	L	120	PHE	CA-C-N	5.62	126.17	120.38
2	L	120	PHE	C-N-CA	5.62	126.17	120.38
5	C	17	SER	N-CA-C	5.31	117.26	109.24

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	231	ILE	Peptide
5	C	30	SER	Peptide

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	3036	0	2938	55	1
2	L	1575	0	1519	9	1
3	H	1657	0	1628	16	0
4	B	1592	0	1538	23	0
5	C	1671	0	1608	43	0
6	D	83	0	70	1	0
7	A	28	0	26	2	0
8	A	118	0	0	2	0
8	B	52	0	0	0	0
8	C	13	0	0	1	0
8	H	98	0	0	1	0
8	L	107	0	0	0	0
All	All	10030	0	9327	138	1

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 7.

The worst 5 of 138 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:B:60:ARG:NH2	4:B:81:ASP:OD2	2.08	0.85
5:C:51:ILE:HG21	5:C:72:ARG:HD2	1.61	0.81
1:A:218:LYS:HG3	1:A:347:THR:HG23	1.64	0.79
5:C:13:GLN:HG3	5:C:14:PRO:HD2	1.67	0.76
1:A:45:VAL:HB	1:A:52:ARG:HE	1.55	0.71

All (1) 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)
1:A:154:GLU:OE2	2:L:191:ARG:NH1[3_544]	2.11	0.09

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	371/422 (88%)	347 (94%)	18 (5%)	6 (2%)	7	7
2	L	208/214 (97%)	202 (97%)	6 (3%)	0	100	100
3	H	218/233 (94%)	205 (94%)	11 (5%)	2 (1%)	14	17
4	B	210/213 (99%)	193 (92%)	16 (8%)	1 (0%)	24	32
5	C	216/238 (91%)	199 (92%)	14 (6%)	3 (1%)	9	8
All	All	1223/1320 (93%)	1146 (94%)	65 (5%)	12 (1%)	12	14

5 of 12 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	231	ILE
1	A	232	PRO
5	C	56	SER
1	A	136	ASP
4	B	66	SER

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	326/367 (89%)	312 (96%)	14 (4%)	26	38
2	L	175/179 (98%)	172 (98%)	3 (2%)	53	67
3	H	192/202 (95%)	181 (94%)	11 (6%)	18	27
4	B	180/181 (99%)	170 (94%)	10 (6%)	19	27
5	C	184/198 (93%)	169 (92%)	15 (8%)	10	13
All	All	1057/1127 (94%)	1004 (95%)	53 (5%)	22	32

5 of 53 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	B	22	CYS
4	B	157	LYS
5	C	128	SER
4	B	33	SER
4	B	59	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 20 such sidechains are listed below:

Mol	Chain	Res	Type
4	B	36	GLN
4	B	109	GLN
5	C	205	GLN
4	B	195	GLN
2	L	41	GLN

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 ⓘ

7 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
6	NAG	D	1	6,1	14,14,15	0.34	0	17,19,21	0.49	0
6	NAG	D	2	6	14,14,15	0.87	1 (7%)	17,19,21	0.69	0
6	MAN	D	3	6	11,11,12	0.89	0	15,15,17	1.52	2 (13%)
6	MAN	D	4	6	11,11,12	0.96	1 (9%)	15,15,17	0.95	1 (6%)
6	MAN	D	5	6	11,11,12	1.11	1 (9%)	15,15,17	1.52	1 (6%)
6	MAN	D	6	6	11,11,12	0.73	0	15,15,17	0.81	0
6	MAN	D	7	6	11,11,12	1.27	1 (9%)	15,15,17	1.11	1 (6%)

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	NAG	D	1	6,1	-	0/6/23/26	0/1/1/1
6	NAG	D	2	6	-	0/6/23/26	0/1/1/1
6	MAN	D	3	6	-	0/2/19/22	1/1/1/1
6	MAN	D	4	6	-	0/2/19/22	0/1/1/1
6	MAN	D	5	6	-	0/2/19/22	0/1/1/1
6	MAN	D	6	6	-	2/2/19/22	0/1/1/1
6	MAN	D	7	6	-	0/2/19/22	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	2	NAG	O5-C1	-2.98	1.38	1.43
6	D	7	MAN	C2-C3	2.78	1.56	1.52
6	D	5	MAN	C4-C3	2.14	1.57	1.52
6	D	4	MAN	C4-C5	2.03	1.57	1.53

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	5	MAN	C1-O5-C5	4.91	118.77	112.19
6	D	3	MAN	C1-O5-C5	3.84	117.33	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	7	MAN	C1-O5-C5	3.04	116.25	112.19
6	D	3	MAN	C1-C2-C3	2.60	113.43	109.64
6	D	4	MAN	O2-C2-C3	-2.22	105.55	110.15

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	6	MAN	O5-C5-C6-O6
6	D	6	MAN	C4-C5-C6-O6

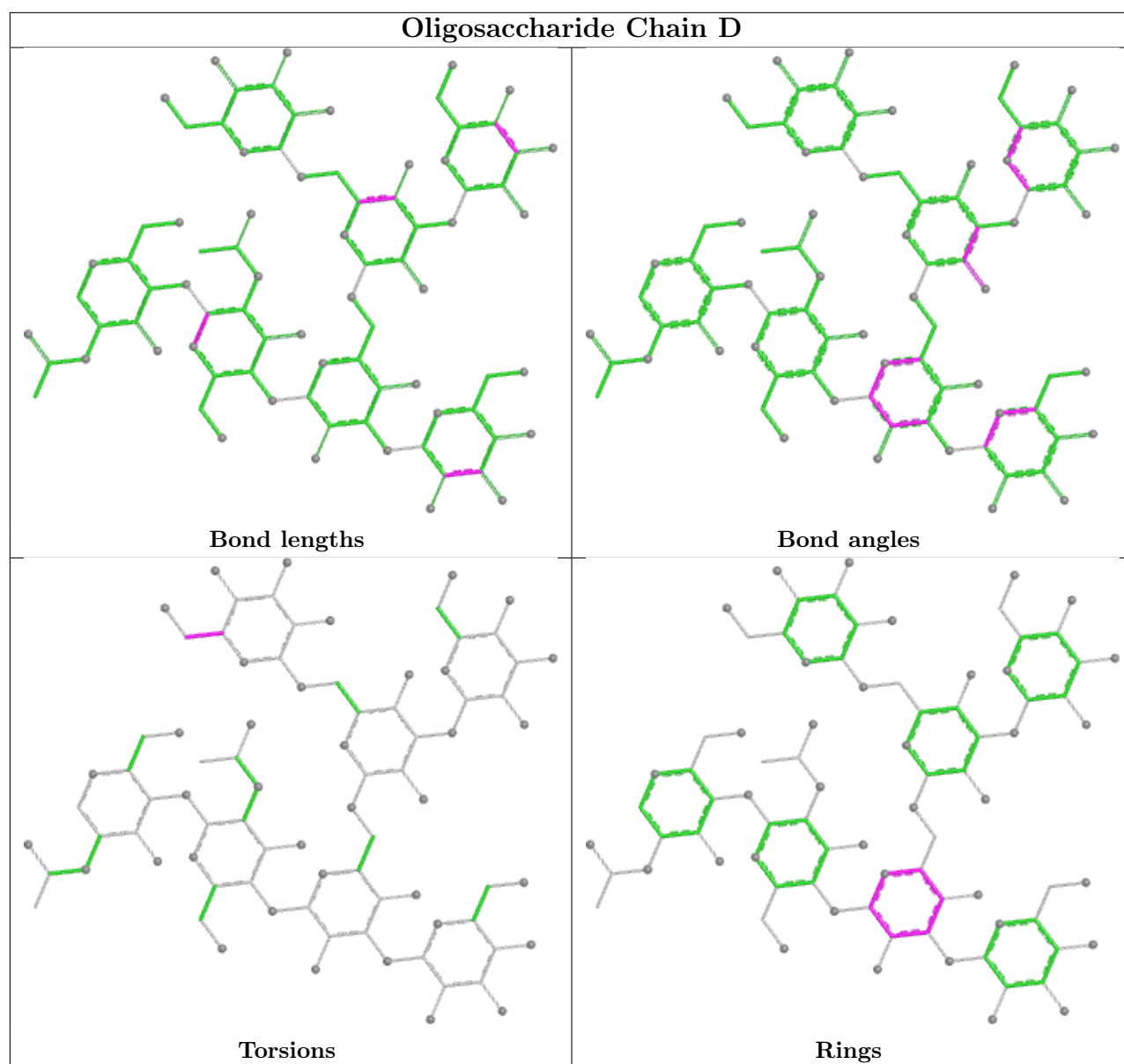
All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	3	MAN	C1-C2-C3-C4-C5-O5

2 monomers are involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	5	MAN	1	0
6	D	4	MAN	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](#)

2 ligands 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
7	NAG	A	501	1	14,14,15	1.86	2 (14%)	17,19,21	1.45	1 (5%)
7	NAG	A	509	1	14,14,15	0.42	0	17,19,21	0.47	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
7	NAG	A	501	1	-	2/6/23/26	0/1/1/1
7	NAG	A	509	1	-	2/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	501	NAG	C1-C2	5.79	1.60	1.52
7	A	501	NAG	O5-C1	3.49	1.49	1.43

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	501	NAG	C1-O5-C5	4.99	118.87	112.19

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	A	509	NAG	O5-C5-C6-O6
7	A	509	NAG	C4-C5-C6-O6
7	A	501	NAG	C1-C2-N2-C7
7	A	501	NAG	C3-C2-N2-C7

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	A	501	NAG	2	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	377/422 (89%)	0.00	11 (2%) 53 55	25, 47, 76, 104	0
2	L	210/214 (98%)	-0.28	3 (1%) 73 75	30, 42, 60, 73	0
3	H	222/233 (95%)	-0.09	8 (3%) 46 46	25, 42, 77, 90	0
4	B	212/213 (99%)	0.45	7 (3%) 49 50	32, 63, 96, 105	0
5	C	220/238 (92%)	0.81	17 (7%) 19 17	41, 68, 91, 98	0
All	All	1241/1320 (94%)	0.16	46 (3%) 45 45	25, 50, 87, 105	0

The worst 5 of 46 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	232	PRO	4.8
5	C	2	VAL	4.5
1	A	231	ILE	4.4
5	C	103	VAL	3.8
1	A	8	PHE	3.7

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.

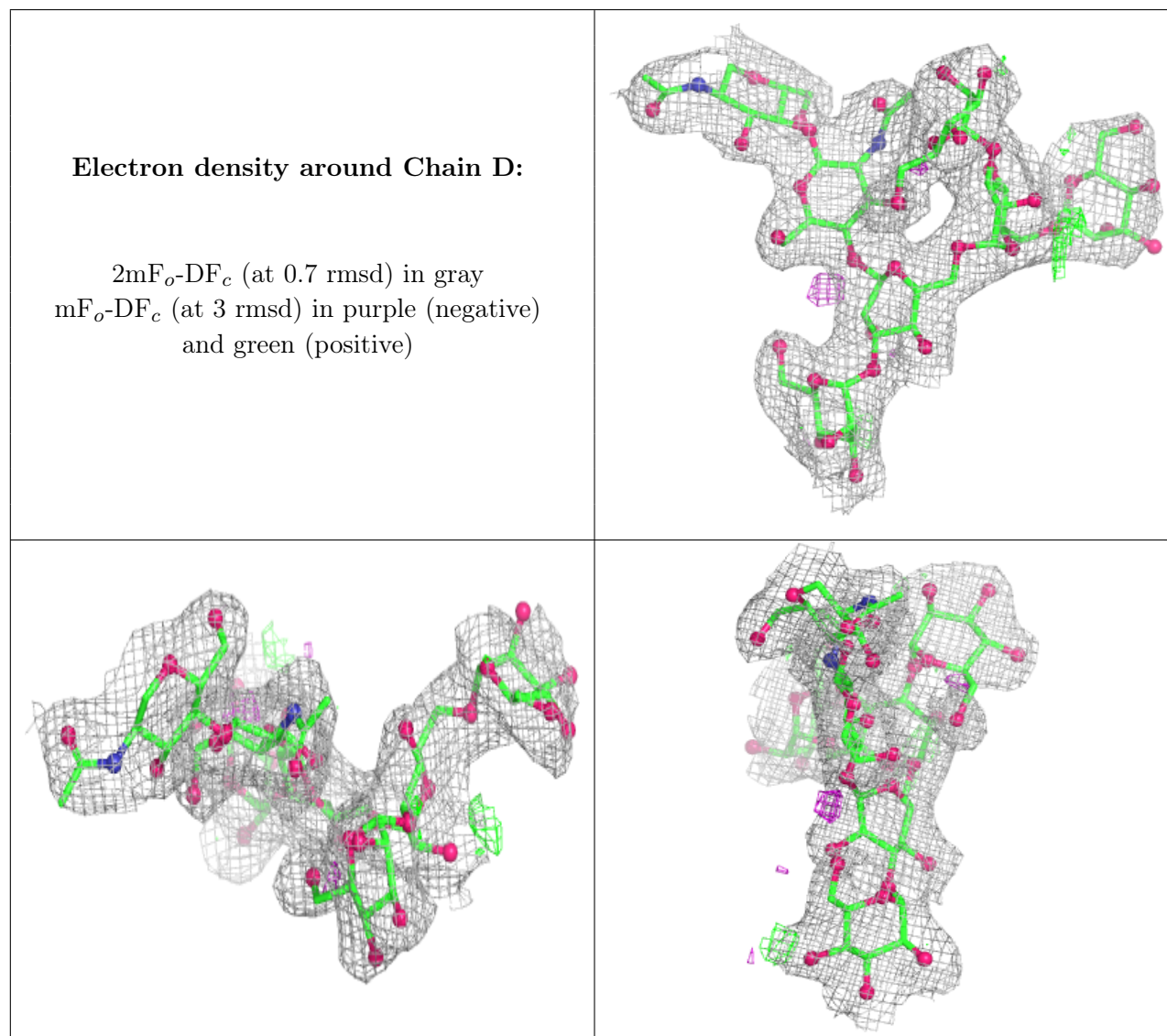
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	NAG	D	1	14/15	-	-	46,53,56,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	NAG	D	2	14/15	-	-	42,54,61,64	0
6	MAN	D	3	11/12	-	-	43,46,50,52	0
6	MAN	D	4	11/12	-	-	52,61,66,69	0
6	MAN	D	5	11/12	-	-	57,70,73,75	0
6	MAN	D	6	11/12	-	-	77,82,90,91	0
6	MAN	D	7	11/12	-	-	48,50,56,57	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
7	NAG	A	509	14/15	0.55	0.15	78,93,100,105	0
7	NAG	A	501	14/15	0.56	0.18	76,91,99,99	0

6.5 Other polymers [i](#)

There are no such residues in this entry.