



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 07:43 AM UTC

PDB ID : 3MUN / pdb_00003mun
Title : APPEP_PEPCLOSE closed state
Authors : Chiu, T.K.
Deposited on : 2010-05-03
Resolution : 2.10 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 : 2022.3.0, CSD as543be (2022)
Xtrriage (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

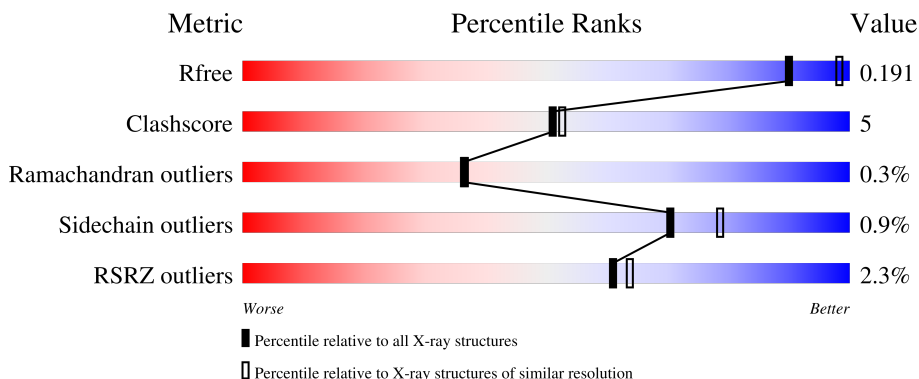
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	693	 2% 84% 14% ..
2	B	2	 50% 50%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 5866 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.

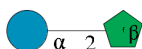
- Molecule 1 is a protein called Prolyl endopeptidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	684	5407	3438	934	1027	8	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q9X6R4
A	-1	SER	-	expression tag	UNP Q9X6R4
A	0	HIS	-	expression tag	UNP Q9X6R4
A	83	TRP	ARG	engineered mutation	UNP Q9X6R4
A	84	TRP	GLU	engineered mutation	UNP Q9X6R4
A	106	GLN	LYS	SEE REMARK 999	UNP Q9X6R4
A	242	GLN	ASP	engineered mutation	UNP Q9X6R4
A	325	GLN	HIS	SEE REMARK 999	UNP Q9X6R4
A	326	GLN	ARG	SEE REMARK 999	UNP Q9X6R4
A	334	SER	THR	SEE REMARK 999	UNP Q9X6R4
A	335	GLY	ALA	SEE REMARK 999	UNP Q9X6R4
A	348	ARG	PRO	SEE REMARK 999	UNP Q9X6R4
A	376	TYR	LYS	engineered mutation	UNP Q9X6R4
A	377	TRP	HIS	engineered mutation	UNP Q9X6R4
A	378	TRP	ASP	engineered mutation	UNP Q9X6R4
A	577	THR	ALA	SEE REMARK 999	UNP Q9X6R4

- Molecule 2 is an oligosaccharide called beta-D-fructofuranose-(2-1)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
			Total	C	O			
2	B	2	14	8	6	0	0	0

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	403	Total O 403 403	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	108.14Å 108.14Å 147.30Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	39.52 – 2.10 39.52 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (39.52-2.10) 100.0 (39.52-2.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.15	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.99 (at 2.10Å)	Xtrriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.174 , 0.206 0.189 , 0.191	Depositor DCC
R_{free} test set	2943 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	25.1	Xtrriage
Anisotropy	0.420	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 44.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5866	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.50% 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: FRU, GLC, GOL, SO4

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	0.40	0/5559	0.89	22/7569 (0.3%)

There are no bond length outliers.

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	490	GLY	N-CA-C	-8.00	103.85	114.25
1	A	311	ASN	CA-C-N	7.31	128.97	119.84
1	A	311	ASN	C-N-CA	7.31	128.97	119.84
1	A	584	GLY	N-CA-C	-7.17	101.14	112.61
1	A	320	LEU	N-CA-C	-7.02	103.59	112.93
1	A	176	GLY	N-CA-C	-6.42	102.43	112.58
1	A	399	GLU	CA-C-N	6.24	126.44	119.32
1	A	399	GLU	C-N-CA	6.24	126.44	119.32
1	A	159	VAL	N-CA-C	5.90	116.64	110.62
1	A	564	VAL	N-CA-C	-5.79	98.70	107.73
1	A	539	ASN	N-CA-C	-5.74	105.11	111.71
1	A	347	ALA	N-CA-C	5.64	118.83	110.48
1	A	175	SER	N-CA-C	5.46	118.36	109.24
1	A	364	LEU	CA-C-N	5.44	125.15	119.82
1	A	364	LEU	C-N-CA	5.44	125.15	119.82
1	A	626	VAL	CA-C-N	5.43	125.10	119.56
1	A	626	VAL	C-N-CA	5.43	125.10	119.56
1	A	624	ARG	N-CA-C	-5.32	104.38	111.24
1	A	88	HIS	N-CA-C	-5.28	100.58	109.07
1	A	605	VAL	N-CA-C	-5.26	101.00	108.58
1	A	554	LEU	N-CA-C	5.14	116.97	111.36
1	A	194	ASP	N-CA-C	-5.04	102.24	110.20

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	5407	0	5160	55	0
2	B	14	0	10	0	0
3	A	30	0	0	1	0
4	A	12	0	16	2	0
5	A	403	0	0	5	0
All	All	5866	0	5186	55	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 5.

All (55) 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:136:ASP:H	1:A:182:ASN:HD21	1.13	0.90
1:A:531:ARG:HH12	4:A:807:GOL:H12	1.47	0.79
1:A:374:ASN:ND2	5:A:1464:HOH:O	2.21	0.73
1:A:615:MET:HE2	1:A:673:ILE:HD13	1.69	0.73
1:A:528:ARG:HH12	4:A:807:GOL:H32	1.54	0.72
1:A:181:GLY:H	1:A:242:GLN:NE2	1.87	0.71
1:A:181:GLY:H	1:A:242:GLN:HE22	1.36	0.71
1:A:78:GLU:HG3	1:A:92:LYS:HG2	1.76	0.67
1:A:32:TRP:CZ3	1:A:40:GLU:HG2	2.31	0.65
1:A:55:TYR:O	1:A:58:GLN:HG2	1.97	0.63
1:A:615:MET:CE	1:A:673:ILE:HD13	2.28	0.62
1:A:48:GLN:HE22	1:A:638:GLN:HE22	1.44	0.62
1:A:259:TYR:HB3	1:A:270:LEU:HD22	1.80	0.62
1:A:353:ASP:OD2	1:A:357:LYS:HB3	2.02	0.59
1:A:83:TRP:HB2	1:A:88:HIS:CE1	2.37	0.59
1:A:302:ARG:NH2	1:A:329:THR:HG22	2.18	0.58
1:A:302:ARG:HH21	1:A:329:THR:HG22	1.69	0.57
1:A:342:MET:HE3	1:A:493:GLU:HA	1.86	0.56
1:A:94:ASP:HB3	5:A:1188:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:THR:OG1	1:A:340:GLU:HB3	2.06	0.55
1:A:150:ASP:CB	1:A:173:LYS:HE3	2.37	0.54
1:A:221:LEU:CD1	1:A:225:ALA:HB2	2.38	0.53
1:A:221:LEU:HD11	1:A:225:ALA:HB2	1.92	0.51
1:A:445:LEU:HD11	1:A:451:ASN:CG	2.35	0.51
1:A:192:LYS:HG2	5:A:1292:HOH:O	2.10	0.51
1:A:150:ASP:HB3	1:A:173:LYS:HE3	1.92	0.51
1:A:436:PRO:HB2	1:A:487:ASN:HD22	1.75	0.51
1:A:134:SER:HB2	1:A:182:ASN:HD22	1.76	0.50
1:A:246:LEU:HG	1:A:283:LEU:HD22	1.92	0.50
1:A:83:TRP:HB2	1:A:88:HIS:ND1	2.27	0.50
1:A:372:GLY:O	1:A:373:PHE:HB2	2.12	0.50
1:A:231:HIS:CG	1:A:249:ALA:HB1	2.48	0.48
1:A:570:TYR:C	1:A:570:TYR:CD1	2.91	0.48
1:A:358:ARG:NH2	3:A:803:SO4:O4	2.47	0.48
1:A:274:GLN:NE2	1:A:297:ARG:HH11	2.12	0.48
1:A:201:ARG:NH2	5:A:1341:HOH:O	2.47	0.47
1:A:205:HIS:HB3	1:A:234:VAL:HG22	1.97	0.47
1:A:161:SER:O	1:A:162:LYS:HB2	2.13	0.46
1:A:507:LYS:NZ	1:A:539:ASN:HD21	2.14	0.45
1:A:158:ASP:HB2	1:A:165:LEU:HD11	1.97	0.45
1:A:75:TYR:CZ	1:A:77:LYS:HE3	2.53	0.44
1:A:421:VAL:HG23	1:A:443:LYS:HG2	1.99	0.44
1:A:181:GLY:N	1:A:242:GLN:NE2	2.62	0.44
1:A:163:GLN:O	1:A:165:LEU:HD13	2.19	0.43
1:A:170:LYS:O	1:A:171:ASP:HB2	2.19	0.43
1:A:398:PHE:O	1:A:400:PRO:HD3	2.19	0.43
1:A:102:LEU:HD22	1:A:131:LEU:HD21	2.01	0.43
1:A:150:ASP:HB2	1:A:173:LYS:HE3	1.99	0.42
1:A:293:LEU:O	1:A:304:LEU:HD12	2.20	0.42
1:A:241:ASP:O	1:A:242:GLN:HB2	2.20	0.42
1:A:329:THR:HG1	1:A:340:GLU:HB3	1.84	0.42
1:A:84:TRP:HZ3	1:A:376:TYR:CZ	2.39	0.41
1:A:98:ASN:HD21	1:A:664:ALA:HB2	1.86	0.41
1:A:613:SER:HB3	1:A:680:GLU:HG3	2.02	0.40
1:A:39:PRO:HD2	5:A:1337:HOH:O	2.21	0.40

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	682/693 (98%)	662 (97%)	18 (3%)	2 (0%)	36 36

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	166	GLU
1	A	574	THR

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	558/564 (99%)	553 (99%)	5 (1%)	70 78

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	ARG
1	A	92	LYS
1	A	165	LEU
1	A	271	LEU
1	A	582	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	14	GLN
1	A	24	GLN
1	A	48	GLN
1	A	74	ASN
1	A	98	ASN
1	A	105	GLN
1	A	155	HIS
1	A	182	ASN
1	A	242	GLN
1	A	251	ASN
1	A	265	GLN
1	A	274	GLN
1	A	311	ASN
1	A	325	GLN
1	A	374	ASN
1	A	424	GLN
1	A	487	ASN
1	A	504	GLN
1	A	506	ASN
1	A	539	ASN
1	A	669	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](#)

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
2	GLC	B	1	2	11,11,12	1.83	4 (36%)	15,15,17	1.30	2 (13%)
2	FRU	B	2	2	2,2,12	1.00	0	1,1,18	0.32	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	GLC	B	1	2	-	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)
2	B	1	GLC	O5-C5	2.97	1.49	1.43
2	B	1	GLC	C2-C3	2.77	1.56	1.52
2	B	1	GLC	O5-C1	2.73	1.48	1.43
2	B	1	GLC	C1-C2	2.39	1.57	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1	GLC	C3-C4-C5	-2.98	104.82	110.23
2	B	1	GLC	C6-C5-C4	-2.81	106.11	113.02

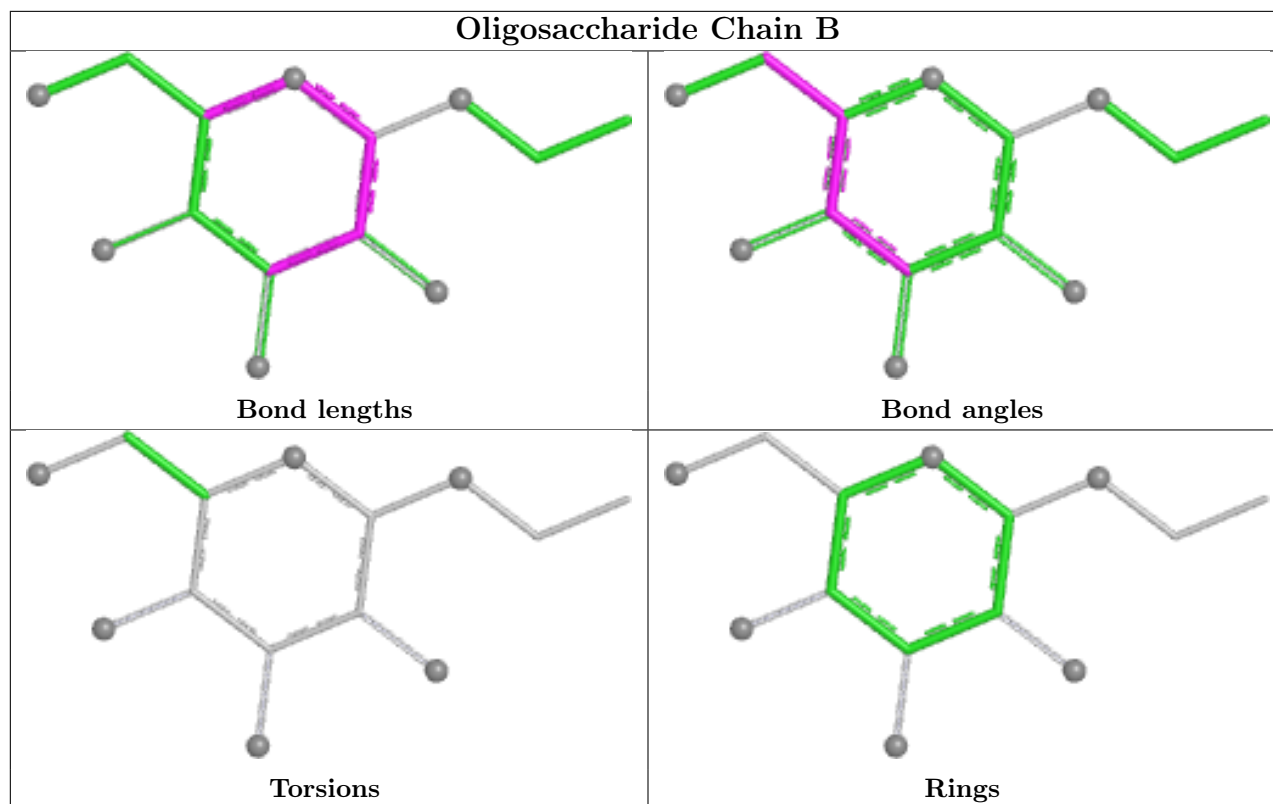
There are no chirality outliers.

There are no torsion outliers.

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](#)

8 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
3	SO4	A	802	-	4,4,4	0.46	0	6,6,6	0.11	0
4	GOL	A	807	-	5,5,5	0.17	0	5,5,5	0.39	0
3	SO4	A	803	-	4,4,4	0.54	0	6,6,6	0.14	0
3	SO4	A	804	-	4,4,4	0.45	0	6,6,6	0.10	0
3	SO4	A	805	-	4,4,4	0.53	0	6,6,6	0.11	0
3	SO4	A	801	-	4,4,4	0.41	0	6,6,6	0.14	0
4	GOL	A	808	-	5,5,5	0.14	0	5,5,5	0.42	0
3	SO4	A	806	-	4,4,4	0.50	0	6,6,6	0.08	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
4	GOL	A	807	-	-	0/4/4/4	-
4	GOL	A	808	-	-	0/4/4/4	-

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.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	807	GOL	2	0
3	A	803	SO4	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	684/693 (98%)	-0.06	16 (2%) 61 64	15, 25, 44, 88	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	83	TRP	7.2
1	A	267	ASN	5.0
1	A	194	ASP	4.5
1	A	265	GLN	3.7
1	A	377	TRP	3.4
1	A	7	LEU	3.4
1	A	88	HIS	3.1
1	A	240	GLU	2.8
1	A	221	LEU	2.8
1	A	84	TRP	2.7
1	A	311	ASN	2.5
1	A	201	ARG	2.5
1	A	266	GLU	2.1
1	A	264	SER	2.1
1	A	318	ARG	2.0
1	A	378	TRP	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.

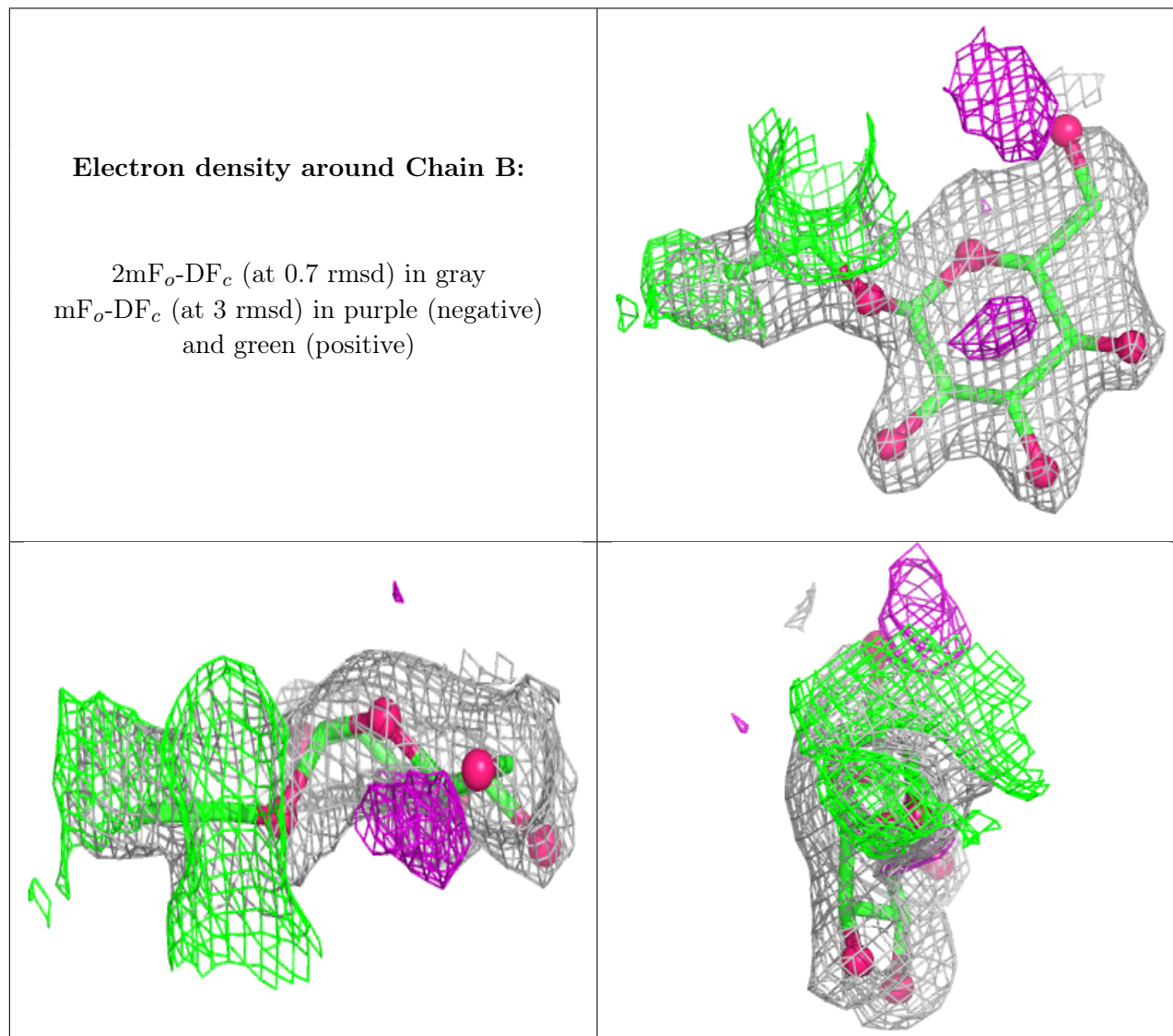
6.3 Carbohydrates [i](#)

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(Å ²)	Q<0.9
2	FRU	B	2	3/12	0.19	0.40	51,51,52,54	0
2	GLC	B	1	11/12	0.82	0.16	47,54,56,64	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(\AA^2)	Q<0.9
4	GOL	A	808	6/6	0.70	0.29	40,50,55,59	0
3	SO4	A	806	5/5	0.73	0.15	93,94,95,95	0
4	GOL	A	807	6/6	0.79	0.23	51,53,60,60	0
3	SO4	A	805	5/5	0.82	0.13	87,87,90,92	0
3	SO4	A	803	5/5	0.83	0.13	84,88,88,90	0
3	SO4	A	802	5/5	0.90	0.14	73,75,77,81	0
3	SO4	A	804	5/5	0.90	0.11	65,66,68,72	0
3	SO4	A	801	5/5	0.93	0.12	49,52,55,56	0

6.5 Other polymers [i](#)

There are no such residues in this entry.