



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 07:25 PM UTC

PDB ID : 6R5H / pdb_00006r5h
Title : Major aspartyl peptidase 1 from *C. neoformans*
Authors : Krystufek, R.; Sacha, P.; Brynda, J.; Konvalinka, J.
Deposited on : 2019-03-25
Resolution : 1.75 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)
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

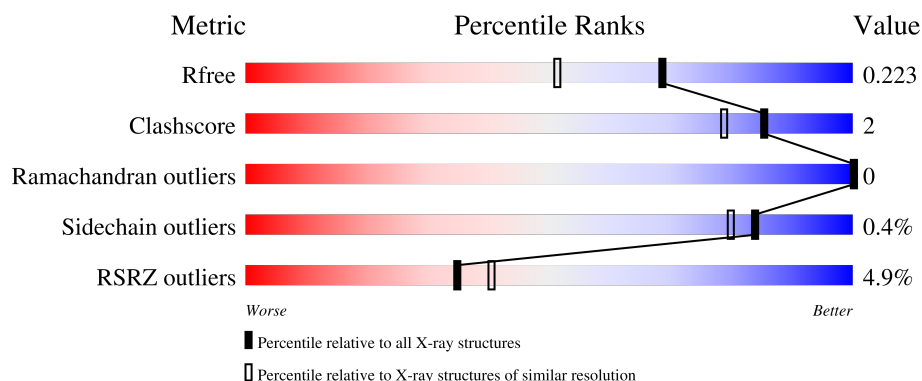
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	3183 (1.76-1.76)
Clashscore	190562	3299 (1.76-1.76)
Ramachandran outliers	187476	3274 (1.76-1.76)
Sidechain outliers	187428	3274 (1.76-1.76)
RSRZ outliers	180081	3183 (1.76-1.76)

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	350	5% 97% .
2	B	2	100%

2 Entry composition [i](#)

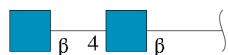
There are 11 unique types of molecules in this entry. The entry contains 2986 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Endopeptidase.

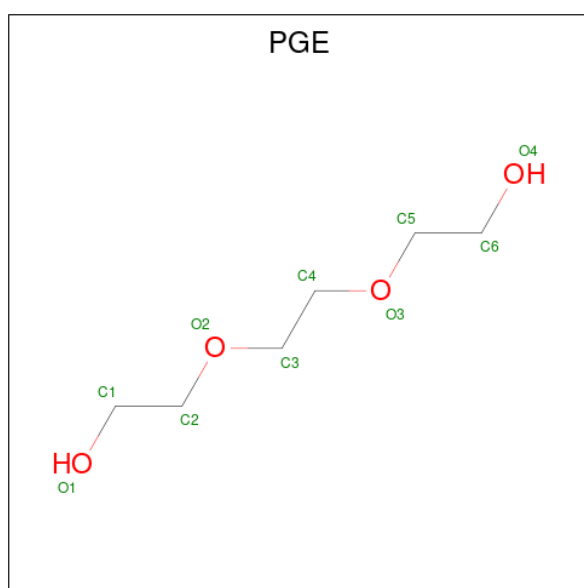
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	350	Total	C	N	O	S	0	15	0
			2642	1661	409	553	19			

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



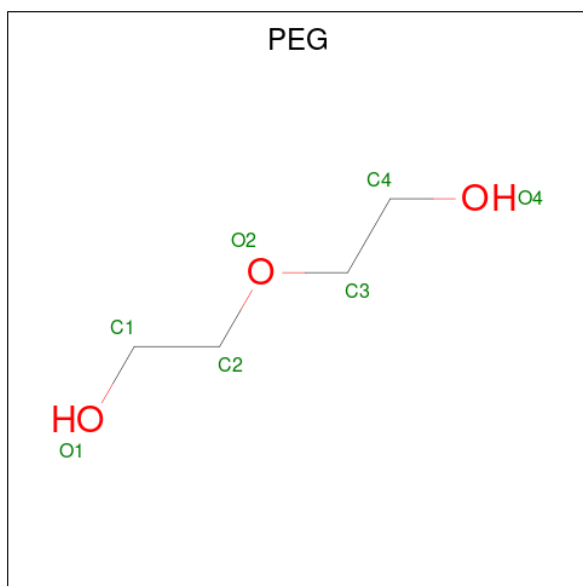
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	2	Total	C	N	O	0	0	0
			28	16	2	10			

- Molecule 3 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			10	6	4		

- Molecule 4 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		
4	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 6 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

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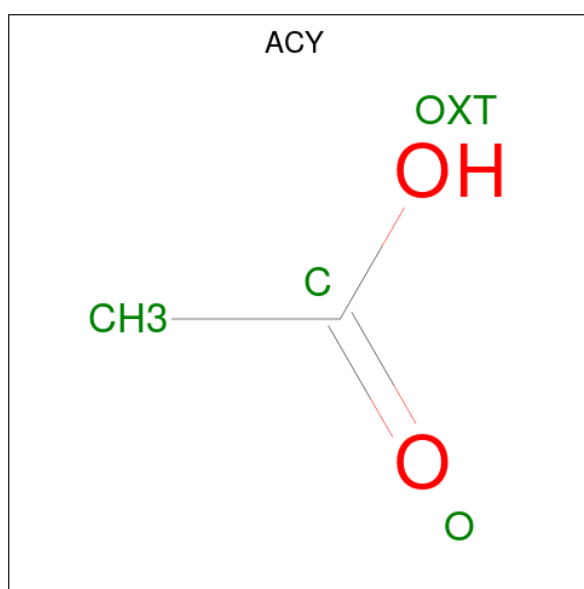
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 7 is SODIUM ION (CCD ID: NA) (formula: Na).

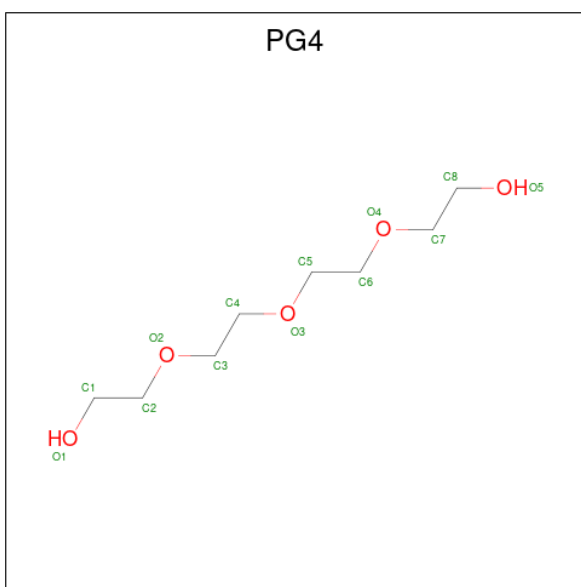
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	2	Total	Na	0	0
			2	2		

- Molecule 8 is ACETIC ACID (CCD ID: ACY) (formula: C₂H₄O₂).



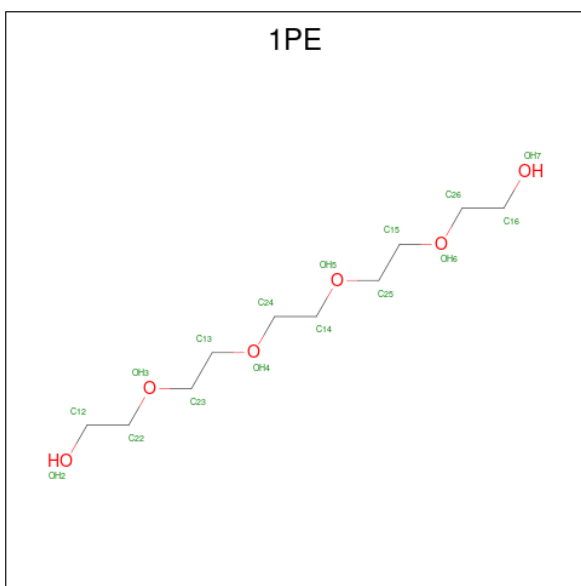
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 9 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: C₈H₁₈O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	A	1	Total	C	O	0	0
			13	8	5		

- Molecule 10 is PENTAETHYLENE GLYCOL (CCD ID: 1PE) (formula: $C_{10}H_{22}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	A	1	Total	C	O	0	0
			16	10	6		

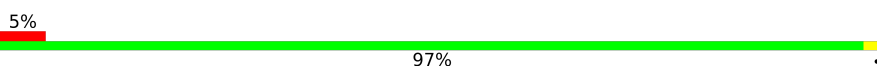
- Molecule 11 is water.

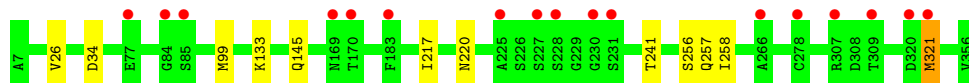
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
11	A	193	Total 198	O 198	0	5

3 Residue-property plots

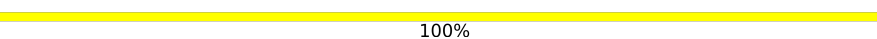
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Endopeptidase

Chain A:  .



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

Chain B: 

MAG1
MAG2

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	97.42Å 112.06Å 91.21Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.71 – 1.75 48.71 – 1.75	Depositor EDS
% Data completeness (in resolution range)	95.8 (48.71-1.75) 95.9 (48.71-1.75)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.03 (at 1.75Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.180 , 0.210 0.194 , 0.223	Depositor DCC
R_{free} test set	2101 reflections (4.33%)	wwPDB-VP
Wilson B-factor (Å ²)	25.0	Xtriage
Anisotropy	0.033	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 33.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2986	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.79% 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: PEG, EDO, NAG, NA, 1PE, PG4, PGE, SO4, ACY

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	0.82	0/2741	0.83	0/3730

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

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	2642	0	2523	12	0
2	B	28	0	25	0	0
3	A	10	0	14	0	0
4	A	49	0	70	3	0
5	A	4	0	6	0	0
6	A	20	0	0	0	0
7	A	2	0	0	0	0
8	A	4	0	3	0	0
9	A	13	0	18	2	0
10	A	16	0	22	0	0
11	A	198	0	0	1	1
All	All	2986	0	2681	12	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 2.

All (12) 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:26[B]:VAL:HG12	1:A:99:MET:HE3	1.72	0.71
1:A:26[B]:VAL:CG1	1:A:99:MET:HE3	2.25	0.67
1:A:34:ASP:H	9:A:419:PG4:H62	1.65	0.61
1:A:256:SER:HA	4:A:406:PEG:H21	1.87	0.56
1:A:34:ASP:N	9:A:419:PG4:H62	2.27	0.49
1:A:145:GLN:HE22	4:A:407:PEG:H22	1.79	0.47
1:A:220:ASN:ND2	1:A:257:GLN:OE1	2.46	0.47
1:A:133:LYS:HB3	4:A:407:PEG:H12	1.98	0.44
1:A:217:ILE:HD11	1:A:258:ILE:HD11	2.01	0.42
1:A:321[B]:MET:HE3	1:A:321[B]:MET:HB3	1.76	0.42
1:A:241[B]:THR:HG22	11:A:610:HOH:O	2.20	0.42
1:A:26[B]:VAL:HG13	1:A:99:MET:HE3	2.02	0.40

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)
11:A:593:HOH:O	11:A:593:HOH:O[3_555]	1.49	0.71

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	363/350 (104%)	355 (98%)	8 (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	295/282 (105%)	293 (99%)	2 (1%)	76	67

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	321[A]	MET
1	A	321[B]	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	A	107	GLN
1	A	192	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](#)

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	NAG	B	1	1,2	14,14,15	0.39	0	17,19,21	0.85	1 (5%)
2	NAG	B	2	2	14,14,15	0.49	0	17,19,21	1.37	2 (11%)

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	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	NAG	C1-O5-C5	3.43	116.78	112.19
2	B	2	NAG	O5-C5-C6	2.84	113.19	107.66
2	B	1	NAG	O5-C1-C2	-2.17	107.93	111.29

There are no chirality outliers.

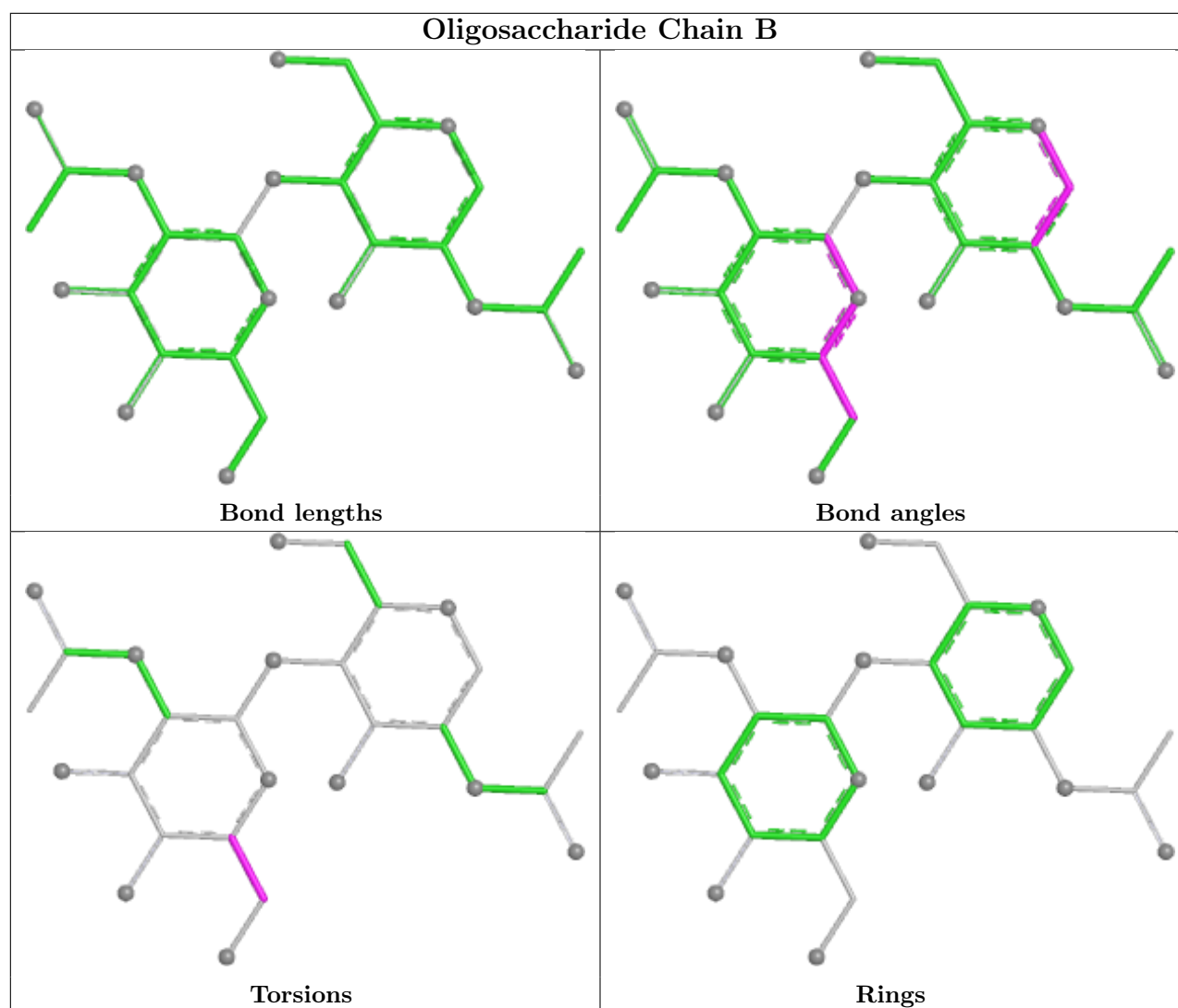
All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	2	NAG	O5-C5-C6-O6
2	B	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 18 ligands modelled in this entry, 2 are monoatomic - leaving 16 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	$\# Z > 2$
4	PEG	A	406	7	6,6,6	0.44	0	5,5,5	0.57	0
4	PEG	A	409	-	6,6,6	0.48	0	5,5,5	0.60	0
4	PEG	A	408	-	6,6,6	0.55	0	5,5,5	0.33	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	EDO	A	411	-	3,3,3	0.47	0	2,2,2	0.37	0
6	SO4	A	413	-	4,4,4	0.31	0	6,6,6	0.80	0
6	SO4	A	414	-	4,4,4	0.21	0	6,6,6	0.77	0
3	PGE	A	403	-	9,9,9	0.80	0	8,8,8	0.73	0
4	PEG	A	404	-	6,6,6	0.41	0	5,5,5	0.30	0
6	SO4	A	415	-	4,4,4	0.30	0	6,6,6	0.43	0
8	ACY	A	418	-	3,3,3	0.87	0	3,3,3	0.48	0
10	1PE	A	420	-	15,15,15	0.43	0	14,14,14	0.52	0
4	PEG	A	410	-	6,6,6	0.44	0	5,5,5	0.23	0
9	PG4	A	419	-	12,12,12	0.51	0	11,11,11	1.25	1 (9%)
4	PEG	A	405	-	6,6,6	0.48	0	5,5,5	0.45	0
6	SO4	A	412	-	4,4,4	0.59	0	6,6,6	0.29	0
4	PEG	A	407	-	6,6,6	0.79	0	5,5,5	0.77	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	PEG	A	406	7	-	2/4/4/4	-
4	PEG	A	409	-	-	3/4/4/4	-
4	PEG	A	408	-	-	3/4/4/4	-
5	EDO	A	411	-	-	0/1/1/1	-
3	PGE	A	403	-	-	4/7/7/7	-
4	PEG	A	404	-	-	1/4/4/4	-
10	1PE	A	420	-	-	8/13/13/13	-
4	PEG	A	410	-	-	0/4/4/4	-
9	PG4	A	419	-	-	6/10/10/10	-
4	PEG	A	405	-	-	3/4/4/4	-
4	PEG	A	407	-	-	2/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A	419	PG4	O3-C5-C6	-2.95	96.89	110.35

There are no chirality outliers.

All (32) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	403	PGE	O2-C3-C4-O3
4	A	404	PEG	O2-C3-C4-O4
10	A	420	1PE	OH4-C13-C23-OH3
4	A	409	PEG	O2-C3-C4-O4
10	A	420	1PE	OH2-C12-C22-OH3
9	A	419	PG4	O3-C5-C6-O4
10	A	420	1PE	OH5-C14-C24-OH4
4	A	406	PEG	O1-C1-C2-O2
4	A	407	PEG	O1-C1-C2-O2
9	A	419	PG4	O4-C7-C8-O5
10	A	420	1PE	OH7-C16-C26-OH6
9	A	419	PG4	O2-C3-C4-O3
4	A	405	PEG	O1-C1-C2-O2
4	A	405	PEG	O2-C3-C4-O4
4	A	408	PEG	C4-C3-O2-C2
10	A	420	1PE	C13-C23-OH3-C22
9	A	419	PG4	C5-C6-O4-C7
4	A	407	PEG	C1-C2-O2-C3
9	A	419	PG4	C6-C5-O3-C4
3	A	403	PGE	C3-C4-O3-C5
9	A	419	PG4	C8-C7-O4-C6
3	A	403	PGE	C4-C3-O2-C2
4	A	405	PEG	C4-C3-O2-C2
4	A	409	PEG	C1-C2-O2-C3
10	A	420	1PE	C25-C15-OH6-C26
10	A	420	1PE	C23-C13-OH4-C24
3	A	403	PGE	C1-C2-O2-C3
4	A	408	PEG	C1-C2-O2-C3
4	A	406	PEG	C4-C3-O2-C2
4	A	408	PEG	O1-C1-C2-O2
10	A	420	1PE	C15-C25-OH5-C14
4	A	409	PEG	C4-C3-O2-C2

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	406	PEG	1	0
9	A	419	PG4	2	0
4	A	407	PEG	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	350/350 (100%)	0.28	17 (4%)	35 40	13, 27, 43, 70	15 (4%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	309	THR	4.0
1	A	169	ASN	3.6
1	A	321[A]	MET	3.4
1	A	227	SER	3.2
1	A	231[A]	SER	3.0
1	A	85	SER	3.0
1	A	307	ARG	2.7
1	A	230	GLY	2.7
1	A	183	PHE	2.5
1	A	170	THR	2.4
1	A	77	GLU	2.3
1	A	278	CYS	2.3
1	A	228	SER	2.2
1	A	320	ASP	2.2
1	A	84	GLY	2.1
1	A	225	ALA	2.1
1	A	266	ALA	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.

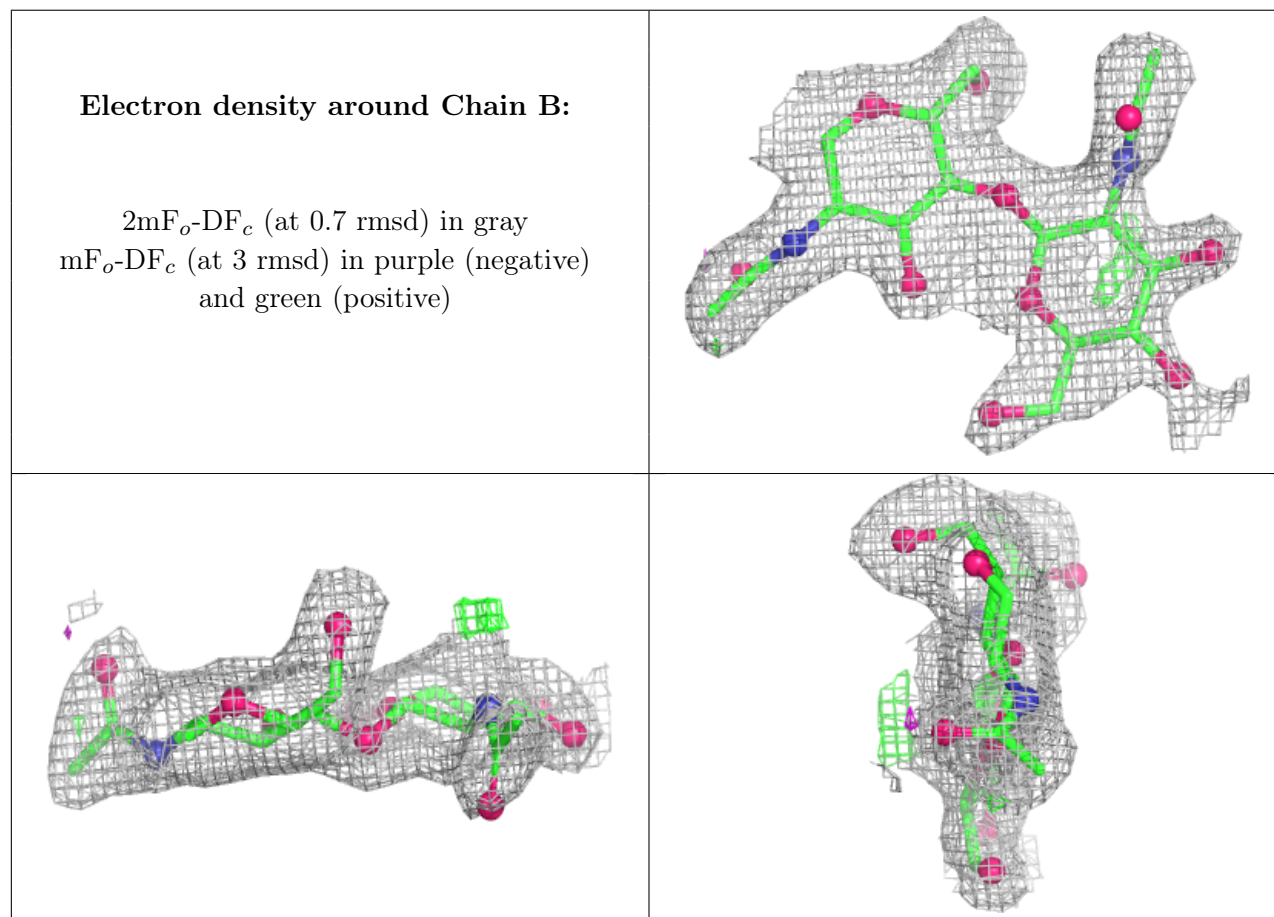
6.3 Carbohydrates [i](#)

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	0.63	0.18	63,70,76,79	0
2	NAG	B	1	14/15	0.91	0.11	40,47,52,59	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
7	NA	A	417	1/1	0.34	0.36	88,88,88,88	0
8	ACY	A	418	4/4	0.76	0.23	54,55,55,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	SO4	A	415	5/5	0.77	0.15	66,67,71,80	1
6	SO4	A	412	5/5	0.80	0.13	64,65,69,80	0
4	PEG	A	408	7/7	0.80	0.23	52,62,66,71	0
4	PEG	A	406	7/7	0.82	0.23	56,58,69,72	0
3	PGE	A	403	10/10	0.82	0.21	50,57,63,64	0
4	PEG	A	407	7/7	0.83	0.19	44,49,58,61	0
4	PEG	A	409	7/7	0.84	0.21	56,58,62,65	0
4	PEG	A	405	7/7	0.85	0.20	55,55,57,58	0
5	EDO	A	411	4/4	0.86	0.15	37,41,42,56	4
10	1PE	A	420	16/16	0.88	0.16	37,41,53,54	16
7	NA	A	416	1/1	0.90	0.25	45,45,45,45	0
4	PEG	A	404	7/7	0.90	0.18	54,57,60,61	0
6	SO4	A	414	5/5	0.91	0.12	34,35,48,50	1
9	PG4	A	419	13/13	0.91	0.12	33,40,48,50	0
6	SO4	A	413	5/5	0.91	0.11	36,38,48,53	1
4	PEG	A	410	7/7	0.94	0.11	42,45,47,52	0

6.5 Other polymers

There are no such residues in this entry.