

Full wwPDB X-ray Structure Validation Report (i)

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PDB ID	:	6TWJ
Title	:	Apo structure of the Ectoine utilization protein EutD (DoeA) from Halomonas
		elongata
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Deposited on	:	2020-01-13
Resolution	:	2.15 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.13.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	$7.0.044 \; (Gargrove)$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

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 2.15 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	$1560 \ (2.16-2.16)$
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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 on 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 <=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	А	406	80%	16%	·
1	В	406	12%	19%	5%



2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 6432 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 Ectoine hydrolase DoeA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	А	389	Total 3088	C 1979	N 516	O 570	S 23	0	0	0
1	В	387	Total 3070	C 1968	N 512	O 567	S 23	0	0	0

Chain	Residue	Modelled	Actual	$\mathbf{Comment}$	Reference
А	-6	MET	-	initiating methionine	UNP A0A1B8NWR1
А	-5	HIS	-	expression tag	UNP A0A1B8NWR1
А	-4	HIS	-	expression tag	UNP A0A1B8NWR1
А	-3	HIS	-	expression tag	UNP A0A1B8NWR1
A	-2	HIS	-	expression tag	UNP A0A1B8NWR1
A	-1	HIS	-	expression tag	UNP A0A1B8NWR1
А	0	HIS	-	expression tag	UNP A0A1B8NWR1
A	1	GLY	-	expression tag	UNP A0A1B8NWR1
В	-6	MET	-	initiating methionine	UNP A0A1B8NWR1
В	-5	HIS	-	expression tag	UNP A0A1B8NWR1
В	-4	HIS	-	expression tag	UNP A0A1B8NWR1
В	-3	HIS	-	expression tag	UNP A0A1B8NWR1
В	-2	HIS	-	expression tag	UNP A0A1B8NWR1
В	-1	HIS	-	expression tag	UNP A0A1B8NWR1
В	0	HIS	-	expression tag	UNP A0A1B8NWR1
В	1	GLY	-	expression tag	UNP A0A1B8NWR1

There are 16 discrepancies between the modelled and reference sequences:

• Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	128	Total O 128 128	0	0
2	В	146	Total O 146 146	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: Ectoine hydrolase DoeA

4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	120.37Å 123.14Å 61.49Å	Depositor
a, b, c, α , β , γ	90.00° 97.18° 90.00°	Depositor
$\mathbf{Bosolution} (\mathbf{\hat{A}})$	43.34 - 2.15	Depositor
Resolution (A)	47.72 - 2.07	EDS
$\% { m Data \ completeness}$	98.3 (43.34-2.15)	Depositor
(in resolution range $)$	95.7(47.72-2.07)	EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.96 (at 2.07 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
D D .	0.228 , 0.262	Depositor
$\mathbf{n}, \mathbf{n}_{free}$	0.228 , 0.262	DCC
R_{free} test set	2371 reflections $(4.60%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	37.3	Xtriage
Anisotropy	0.163	Xtriage
Bulk solvent $k_{sol}(e/A^3), B_{sol}(A^2)$	0.38 , 54.7	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6432	wwPDB-VP
Average B, all atoms $(Å^2)$	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 13.09% of the height of the origin peak. No significant pseudotranslation is detected.

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.

¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

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).

Mal	Chain	Bond	lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.31	0/3181	0.52	0/4328	
1	В	0.32	0/3163	0.52	0/4305	
All	All	0.31	0/6344	0.52	0/8633	

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	А	3088	0	2972	51	0
1	В	3070	0	2951	52	1
2	А	128	0	0	8	2
2	В	146	0	0	8	0
All	All	6432	0	5923	97	2

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 8.

All (97) 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:B:21:ARG:NH2	1:B:63:GLY:O	1.98	0.96

		Interatomic	Clash	
Atom-1	Atom-2	distance (Å)	overlap (Å)	
1:A:21:ARG:NH2	1:A:63:GLY:O	2.02	0.91	
1:A:316:ASP:OD2	2:A:402:HOH:O	1.95	0.85	
1:A:95:TYR:O	2:A:401:HOH:O	1.92	0.85	
1:B:27:ARG:NH1	2:B:403:HOH:O	2.09	0.84	
1:B:275:ARG:HH11	1:B:276:PRO:HD2	1.47	0.79	
1:A:166:GLU:OE1	2:A:403:HOH:O	2.01	0.79	
1:B:395:GLN:O	2:B:401:HOH:O	2.00	0.78	
1:B:21:ARG:NH1	1:B:60:GLY:O	2.19	0.75	
1:B:166:GLU:OE1	2:B:402:HOH:O	2.06	0.72	
1:A:377:GLU:OE2	2:A:404:HOH:O	2.07	0.72	
1:A:203:ARG:HD3	1:B:203:ARG:HD3	1.75	0.67	
1:A:355:GLU:OE2	2:A:405:HOH:O	2.13	0.66	
1:A:210:THR:HG22	1:A:216:VAL:HG22	1.78	0.65	
1:A:284:GLU:OE2	2:A:406:HOH:O	2.16	0.61	
1:A:364:PRO:O	2:A:407:HOH:O	2.17	0.60	
1:A:227:MET:HE3	1:B:49:TRP:HB3	1.85	0.59	
1:A:279:GLU:HB2	1:A:371:TRP:HH2	1.70	0.57	
1:B:210:THR:HG22	1:B:216:VAL:HG22	1.86	0.57	
1:A:361:HIS:NE2	1:A:376:THR:HG21	2.20	0.57	
1:A:229:PRO:HG2	1:A:253:PHE:HE1	1.71	0.56	
1:B:40:MET:HG2	1:B:57:VAL:HG23	1.87	0.56	
1:A:234:ALA:HB1	1:A:372:GLY:HA3	1.86	0.55	
1:B:275:ARG:NH1	1:B:276:PRO:HD2	2.19	0.55	
1:A:358:MET:HE3	1:A:360:PHE:CZ	2.41	0.55	
1:A:358:MET:HE3	1:A:360:PHE:HZ	1.72	0.54	
1:B:361:HIS:NE2	1:B:376:THR:HG21	2.22	0.54	
1:A:221:TYR:O	1:A:262:ARG:NH2	2.25	0.54	
1:A:237:PRO:HB3	1:A:367:TRP:CH2	2.43	0.54	
1:A:144:PRO:HG2	1:A:145:HIS:CE1	2.43	0.54	
1:A:162:LYS:HE2	1:A:170:MET:HE1	1.89	0.53	
1:B:250:GLU:HG3	2:B:406:HOH:O	2.10	0.52	
1:B:235:ALA:HB2	1:B:370:ASP:HA	1.92	0.52	
1:B:225:VAL:HG13	1:B:241:TRP:HZ3	1.74	0.51	
1:B:293:ASN:HB3	1:B:310:ALA:HB1	1.92	0.51	
1:B:291:ILE:HG21	1:B:394:ARG:HD2	1.93	0.51	
1:A:279:GLU:HG3	1:A:371:TRP:CZ2	2.46	0.50	
1:B:211:SER:HB2	1:B:212:PRO:HD2	1.93	0.50	
1:B:327:CYS:N	2:B:412:HOH:O	2.44	0.50	
1:B:107:LEU:HD12	1:B:111:ILE:HB	1.92	0.49	
1:A:291:ILE:HG21	1:A:394:ARG:HD3	1.94	0.48	
1:B:225:VAL:HG13	1:B:241:TRP:CZ3	2.48	0.48	

	Clash		
Atom-1	Atom-2	distance $(Å)$	overlan (Å)
1:B:234:ALA:HB1	1:B:372:GLY:HA3	1.96	0.48
1:A:229:PRO:HD3	1:A:239:LEU:O	2.14	0.48
1:A:300:PRO:HB3	1:A:356:PRO:HD3	1.95	0.48
1:B:140:LEU:HD12	1:B:141:ARG:N	2.29	0.47
1:A:237:PRO:HG2	1:B:72:MET:SD	2.54	0.47
1:B:344:MET:SD	1:B:352:THR:HG21	2.54	0.47
1:A:279:GLU:HG3	1:A:371:TRP:HZ2	1.79	0.47
1:A:367:TRP:CH2	1:A:374:GLU:OE1	2.68	0.46
1:B:283:ALA:HB1	1:B:366:LEU:HD12	1.97	0.46
1:B:300:PRO:HG3	1:B:382:THR:O	2.16	0.46
1:A:334:SER:OG	1:A:339:TRP:HA	2.15	0.45
1:A:262:ARG:HB3	1:A:333:ILE:HG13	1.97	0.45
1:A:129:TYR:CE2	1:B:52:TYR:HA	2.51	0.45
1:B:7:PRO:HB3	1:B:261:LYS:NZ	2.32	0.45
1:A:299:LYS:HD2	1:A:300:PRO:O	2.17	0.45
1:A:237:PRO:HG2	1:B:72:MET:HG3	1.99	0.45
1:B:140:LEU:HA	1:B:148:PHE:CE2	2.50	0.45
1:B:188:ILE:HD12	1:B:254:PHE:HZ	1.81	0.45
1:B:377:GLU:OE2	1:B:394:ARG:HD3	2.16	0.45
1:A:229:PRO:HG2	1:A:253:PHE:CE1	2.52	0.44
1:A:297:VAL:HG21	1:A:306:ASP:HB3	1.99	0.44
1:A:102:HIS:CE1	1:A:104:MET:HG2	2.53	0.44
1:A:237:PRO:HB3	1:A:367:TRP:CZ2	2.53	0.44
1:B:369:GLU:HG2	1:B:369:GLU:O	2.17	0.44
1:B:24:MET:HE1	1:B:59:LEU:HD23	1.98	0.44
1:B:279:GLU:HG2	1:B:371:TRP:HH2	1.81	0.44
1:B:341:GLU:OE2	2:B:404:HOH:O	2.21	0.44
1:B:27:ARG:HD3	2:B:483:HOH:O	2.18	0.43
1:A:59:LEU:HA	1:A:59:LEU:HD12	1.79	0.43
1:B:280:PHE:HD1	1:B:371:TRP:CE3	2.36	0.43
1:A:97:GLN:O	1:A:97:GLN:HG3	2.17	0.43
1:B:170:MET:HB3	1:B:389:LEU:HD13	2.00	0.43
1:B:330:PRO:HG2	1:B:341:GLU:HB2	2.00	0.43
1:A:144:PRO:HG2	1:A:145:HIS:ND1	2.34	0.43
1:A:232:LYS:NZ	1:A:232:LYS:HB3	2.34	0.43
1:A:78:LEU:HD23	1:A:88:ILE:HD13	2.00	0.43
1:B:37:PRO:HG3	1:B:51:PHE:HB3	2.00	0.43
1:B:113:PRO:HA	1:B:118:HIS:ND1	2.34	0.42
1:B:21:ARG:HA	1:B:24:MET:CE	2.49	0.42
1:A:254:PHE:O	1:A:268:SER:HA	2.19	0.42
1:B:241:TRP:O	2:B:405:HOH:O	2.21	0.42

Atom-1	Atom-2	Interatomic	Clash
		distance (A)	overlap (A)
1:B:122:VAL:HG13	1:B:148:PHE:CD1	2.55	0.42
1:A:330:PRO:HG2	1:A:341:GLU:HB2	2.01	0.41
1:A:159:ARG:HD2	2:A:416:HOH:O	2.20	0.41
1:A:279:GLU:HB2	1:A:371:TRP:CH2	2.54	0.41
1:A:368:VAL:HG12	1:A:369:GLU:N	2.36	0.41
1:B:254:PHE:O	1:B:268:SER:HA	2.20	0.41
1:A:327:CYS:N	1:A:346:LEU:O	2.54	0.41
1:A:262:ARG:HD2	1:A:335:TYR:CZ	2.56	0.41
1:A:194:LYS:HB3	1:A:242:ASP:O	2.21	0.40
1:B:95:TYR:CE1	1:B:101:MET:HB3	2.56	0.40
1:A:243:ASP:HB3	1:B:218:GLY:HA3	2.04	0.40
1:B:78:LEU:HD23	1:B:88:ILE:HD13	2.03	0.40
1:B:93:ASP:O	1:B:96:VAL:HG13	2.21	0.40
1:B:237:PRO:HB3	1:B:367:TRP:HH2	1.86	0.40

All (2) 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-1 Atom-2		Clash overlap (Å)
2:A:507:HOH:O	2:A:507:HOH:O[2_556]	2.06	0.14
1:B:349:SER:N	2:A:402:HOH:O[4_556]	2.09	0.11

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	Perce	ntiles
1	А	385/406~(95%)	377~(98%)	8 (2%)	0	100	100
1	В	383/406~(94%)	$373 \ (97\%)$	10 (3%)	0	100	100
All	All	768/812~(95%)	750~(98%)	18 (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	А	325/337~(96%)	322~(99%)	3~(1%)	78 83
1	В	323/337~(96%)	315~(98%)	8 (2%)	47 49
All	All	648/674~(96%)	637~(98%)	11 (2%)	60 65

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	280	PHE
1	А	299	LYS
1	А	339	TRP
1	В	26	SER
1	В	114	ASP
1	В	129	TYR
1	В	228	LEU
1	В	247	ARG
1	В	275	ARG
1	В	339	TRP
1	В	369	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	97	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)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

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	2	$\mathbf{OWAB}(\mathbf{A}^2)$	$Q{<}0.9$
1	А	389/406~(95%)	0.73	40 (10%) 6	9	23, 39, 68, 94	0
1	В	387/406~(95%)	0.79	49 (12%) 3	5	23, 38, 60, 85	0
All	All	776/812~(95%)	0.76	89 (11%) 4	6	23, 39, 63, 94	0

All (89) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	367	TRP	9.0
1	В	368	VAL	7.3
1	А	371	TRP	7.0
1	А	281	VAL	6.7
1	В	371	TRP	5.4
1	В	370	ASP	4.9
1	А	368	VAL	4.7
1	А	280	PHE	4.6
1	В	369	GLU	4.6
1	А	279	GLU	4.2
1	В	275	ARG	4.1
1	А	370	ASP	4.1
1	В	367	TRP	4.0
1	А	129	TYR	4.0
1	А	275	ARG	3.9
1	В	337	PRO	3.9
1	В	129	TYR	3.9
1	В	212	PRO	3.8
1	А	278	SER	3.7
1	В	97	GLN	3.3
1	A	285	SER	3.1
1	A	318	TYR	3.1
1	A	276	PRO	3.1
1	В	221	TYR	3.1

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Mol	Chain	Res	Type	RSRZ
1	А	372	GLY	3.0
1	А	337	PRO	2.9
1	В	113	PRO	2.9
1	В	332	GLY	2.9
1	В	85	PRO	2.8
1	А	49	TRP	2.8
1	А	398	VAL	2.7
1	В	145	HIS	2.7
1	В	335	TYR	2.7
1	В	51	PHE	2.7
1	В	279	GLU	2.7
1	В	49	TRP	2.7
1	А	221	TYR	2.6
1	А	373	LEU	2.6
1	В	38	SER	2.6
1	В	301	GLY	2.6
1	В	222	PRO	2.6
1	В	365	GLY	2.6
1	А	366	LEU	2.6
1	А	94	HIS	2.6
1	А	3	GLN	2.5
1	В	276	PRO	2.5
1	В	119	GLU	2.5
1	В	96	VAL	2.5
1	В	224	ILE	2.5
1	А	85	PRO	2.5
1	В	336	PRO	2.5
1	А	53	VAL	2.4
1	А	114	ASP	2.4
1	В	114	ASP	2.4
1	А	224	ILE	2.4
1	A	335	TYR	2.4
1	В	223	ALA	2.4
1	А	369	GLU	2.3
1	В	118	HIS	2.3
1	В	225	VAL	2.3
1	А	286	ALA	2.3
1	В	215	LYS	2.3
1	В	210	THR	2.3
1	В	147	ARG	2.3
1	А	51	PHE	2.3
1	В	53	VAL	2.3

Mol	Chain	Res	Type	RSRZ
1	В	248	GLU	2.3
1	В	391	ASP	2.3
1	А	202	TYR	2.3
1	А	283	ALA	2.2
1	В	234	ALA	2.2
1	А	5	SER	2.2
1	А	253	PHE	2.2
1	А	296	GLU	2.2
1	А	215	LYS	2.1
1	В	209	TRP	2.1
1	В	94	HIS	2.1
1	А	52	TYR	2.1
1	В	37	PRO	2.1
1	В	372	GLY	2.1
1	А	96	VAL	2.1
1	В	198	VAL	2.0
1	В	214	GLY	2.0
1	А	292	GLU	2.0
1	В	281	VAL	2.0
1	А	365	GLY	2.0
1	В	93	ASP	2.0
1	В	296	GLU	2.0
1	В	247	ARG	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)

There are no monosaccharides in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.

