

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0056
LOT:	2008-0056
Activity:	β -Mannanase
Synonyms:	Mannan exo-1,4- β -mannosidase; exo-1,4- β -mannanase; exo- β -1,4-mannase; β -1,4-mannan 4-mannanohydrolase; exo- β -mannanase; β -D-mannanase; 1,4- β -D-mannan mannanohydrolase
Nomenclature:	CjMan26C, CJA_0236, mannobiose-producing exo- β -mannanase, GH26, GH 26, belongs to glycoside hydrolase family 26 (member of clan GH-A)
Source organism:	<i>Cellvibrio japonicus</i> NCIMB 10462
Enzyme Commission No.:	3.2.1.-
Activity:	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>NOTE: this product has been produced and is awaiting assay. It is thus currently available for purchase by the mg only. If you have a query, please contact us (technical@prozomix.com)</p> </div>
Specific activity:	
Purity:	> 95 % as judged by SDS-PAGE
Form and storage:	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
pH optimum:	-
Temperature optimum:	-
[Protein]:	10 mg/mL
Sequence length:	396 amino acids (view sequence)
Accession No.:	ACE84009.1 , B3PGI1
Molecular weight:	45340.5 Da (theoretical) ~ 45000 Da (observed by SDS-PAGE) - (observed by mass spectrometry)
Biological function:	This exo-acting enzyme releases mannobiose from the non-reducing end of undecorated β -1,4-mannans
Potential application(s):	Biomass conversion , carbohydrate research
Comments:	PDB: 2VX4 , 2VX5 , 2VX6 , 2VX7
Usage:	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use

Assay:

-

Primary sequence:

MSEKPAESAAAVADSATTTAPQSGKPETALPALIDTQATAETRALYRNLAKLRYKHLLFGHEDSLAYGVHWEGDM
DRSDVRDVTGANPAVYGWELGGLELGHGTANLDAVNFEKMQHWIKAGYSRGGVITISWHVFNVPVSGGNSWDKTPAV
HELIPGGARHATLKAYLDTFVAFNEGLADVDAQGNKHYPPIIFRPWHEHNGDWFWWGKGHASEQDYIALWRF'TVH
YLRDEKCLRNLIIYAYSPDRSRIDMANFEAGYLYGYPGDAYVDIIGLDNYWDVGHEANTASADEQKAALTASLKQL
VQIARSKGKIAALTATGNRLTIDNFWTERLLGPIISADADASEIAYVMVWRNANLAREKSEQFFAPFPGQATADD
FKRFYQSEVVLFEDLPPLYR

Literature:

1. [Cartmell et al. \(2008\) J. Biol. Chem. 283, 34403-34413](#)