

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0059
LOT:	2009-0059
Activity:	Galactanase
Synonyms:	Endo-1,4- β -galactanase; endo- β -1,4-galactanase; arabinogalactanase; arabinogalactan endo-1,4- β -galactosidase; arabinogalactan 4- β -D-galactanohydrolase
Nomenclature:	CAZY [GH53, glycoside hydrolase family 53, member of clan GH-A], GalA, galA, ganA
Source organism:	<i>Cellvibrio japonicus</i> NCIMB 10462
Enzyme Commission No.:	3.2.1.89
Activity:	<div style="border: 1px solid black; padding: 5px;">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)</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:	355 amino acids (view sequence)
Accession No.:	P48841, CAA62990.1, X91885
Molecular weight:	57776.5 Da (theoretical) ~ 55000 Da (observed by SDS-PAGE) - (observed by mass spectrometry)
Biological function:	Endohydrolysis of (1→4)- β -D-galactosidic linkages in arabinogalactans
Potential application(s):	Biomass conversion , carbohydrate research
Comments:	-
Usage:	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use
Assay:	-

Primary sequence:

MDNTPFYVGADLSYVNEMESCGATYRDQGKKVDPFQLFADKGADLVRVRLWHNATWTKYSDLKDVSRTLKRAKNA
GMKTLLDFHYSDTWTDPEKQFIPKAWAHITDTKELAKALYDYTTDTLASLDQQQLLPNLVQVGNETNIEILQAED
TLVHGI PNWQRNATLLNSGVNAVRDYSKKTGKPIQVVLHIAQPENALWWFKQAKENGVIDYDVIGLSYYPQWSEY
SLPQLPDAIAELQNTYHKPVMIVETAYPWTLHNFDQAGNVLGEKAVQPEFPASPRGQLTYLLTLTQLVKSAGGMG
VIYWEPAWVSTRCRTLWGKGSWENASFFDATRKNNALPAFLFFKADYQASQAQAE

Literature:

1. [Braithwaite et al. \(1998\) *Biochemistry* 36, 15489-15500](#)