

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0218	add this product to cart
LOT:	2009-0218	view all arabinofuranosidases
Activity:	Arabinoxylan arabinofuranosidase	
Synonyms:	α -N-Arabinofuranosidase; arabinosidase; α -arabinosidase; α -L-arabinosidase; α -arabinofuranosidase; polysaccharide α -L-arabinofuranosidase; α -L-arabinofuranoside hydrolase; L-arabinosidase; α -L-arabinanase; α -L-arabinofuranoside arabinofuranohydrolase; alpha-N-arabinofuranosidase; alpha-arabinosidase; alpha-L-arabinosidase; alpha-arabinofuranosidase; polysaccharide alpha-L-arabinofuranosidase; alpha-L-arabinofuranoside hydrolase; alpha-L-arabinanase; alpha-L-arabinofuranoside arabinofuranohydrolase	
Nomenclature:	CAZy [GH43, glycoside hydrolase family 43, member of clan GH-F], XynD, xylanase D, AXH, AXH-m2,3, AXH-m23, AF	
Source organism:	<i>Bacillus subtilis</i> subsp. <i>subtilis</i> str. 168	
Enzyme Commission No.:	3.2.1.55	
Activity:	-	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)
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:	5.6	
Temperature optimum:	45 °C	
[Protein]:	5 mg/mL	
Sequence length:	485 amino acids (view sequence)	
Accession No.:	Q45071 , NP_389698.1 , CAB13699.1 , BSUB224308:BSU1816-MON	
Molecular weight:	53852.8 Da	(theoretical)
	~ 54000 Da	(observed by SDS-PAGE)
	-	(observed by mass spectrometry)
Biological function:	Catalyses the specific release of arabinose from O-2 or O-3 monosubstituted xylosyl residues in arabinoxylans and arabinoxyloligosaccharides	
Potential application(s):	Biomass conversion , carbohydrate research	

- Comments:** PDB: [3C7E](#), [3C7F](#), [3C7G](#), [3C7H](#), [3C7O](#). This enzyme contains a structural calcium ion
- Usage:** Agitate vial sufficiently to fully homogenise enzyme precipitate before use
- Assay:** -

Primary sequence:

MTTIAKHIGNSNPLIDHHLGADPVALTYNGRVYIYMSSDDYEYNSNGTIKDNSFANLNRVFISSADMVNWTDHG
AIPVAGANGANGGRIAKWAGASWAPSIIVKINGKDKFFLYFANSGGGIGVLTADSPIGPWTDPGKPLVTPST
PGMSGVVWLFDPVAVFVDDDDGTGYLYAGGGVPGVSNPTQGWANPKTARVIKLGPDMTSVVGSASTIDAPFMFEDS
GLHKYNGTYYYSYCINFGGTHPADKPPGEIGYMTSSSPMGPFYRHFGLKNPGAFFGGGNNHHAVFNFKNEWYV
VYHAQTVSSALFGAGKGYRSPHINKLVHNADGSIQEVAAANYAGVTQISNLNPNRVEAETFANNGRILTEKSTAP
GGPVNNQHVTSIQNGDWIAVGNADFGAGGARSFKANVASTLGGKIEVRLDSADGKLVGTLNVPSTGGAQWREIE
TAVSGATGVHKVFFVFTGTGTGNLNFNDYWQFTQR

- Literature:**
1. [Bourgois et al. \(2007\) *Appl. Microbiol. Biotechnol.* **75**, 1309-1317](#)
 2. [Vandermarliere et al. \(2009\) *Biochem. J.* **418**, 39-47](#)