

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0146
LOT:	2008-0146
Activity:	β -Xylosidase
Synonyms:	Xylan 1,4- β -xylosidase; 1,4- β -D-xylan xylohydrolase; exo-1,4- β -xylosidase; xylobiase
Nomenclature:	Xylosidase, GH3
Source organism:	<i>Streptomyces avermitilis MA4680</i>
Enzyme Commission No.:	3.2.1.37
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	742 amino acids (view sequence)
Accession No.:	Q82DJ4
Molecular weight:	81787.6 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Hydrolysis of (1->4)- β -D-xylans, to remove successive D-xylose residues from the non-reducing termini (also hydrolyses xylobiose)
Potential application(s):	Biomass conversion , carbohydrate research
Comments:	-
Usage:	-
Assay:	-

NOTE: this product is currently under development. If you wish to prioritise the production of this enzyme/protein, please follow [this link](#)

Primary sequence:

MTHPWQDPALPAAVRAADLLARMTPOEKTAQLYGVWPGSDEAPGGDVAPLQHALSEGVDLAGLLPHGLGQLTRPF
GTAPVDPAEGAARLGFLQERIRAANRFRLLPALAHEECLTGFTAWQATIFPTPLAWGASFDPDLVKEMAAAIGASM
RAVGVHQGLAPVLDVVRDPRWGRTEESIGEDPYLVATVGTAYVQGLQSSGVVATLKHLAGYSASRGARNHAPASL
GPRELADVILPPFEMAVREGGARSVMAAYNDIDGLPAHAHHRLTLHLRDEWQFTGTVVSDYFGVSFLESAHGLA
DSPAGAAALALAAGVDVELPAVRCFGAGPFDEELVDRAALRVLTQKCELGLLDPDWAPPATEAPVDLDPHMRAL
ARQLAQESVLLANDRGLLPLAPGARRIAVLGPHADDPAAMLGCYTFPRHVLLDRPGVPMGVAVPTLLEALRTEL
PDAEFVTDPAAAEVCVAVGDRSGLFGRGTSSEGCDAADELDPDQGEVVDRALASGTPVVLVLLSGRPVALGRW
ADRCAAVVQAFFPGEEGGPAVAGVLSGRVNPGRPLVSVPRGPAGQPWTYLAPPLGRHGEASNLDPTPLYPFHG
LSYTTYDWQAPSVDASFPDGETTLRLTVRNTGERPGTEVVQLYLHDPVGKVARPVVRLVGYARVPLEPGASGE
VHFTVPADLAAYTGPDGERIVEPGALELRLGVSSADGDVRYTVPVTLTGPERVVGRERRRLRCEVRVK

Literature:

1. Omura *et al.* (2001) *Proc. Natl. Acad. Sci. USA* **98**, 12215-12220