

## Recombinant Enzyme Product Specification Sheet

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

**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  
ADRCAAVVQAFFPGEEGGPAVAGVLSGRVNPSGRLPVSVPRGPAGQPWTYLAPPLGRHGEASNLDPTPLYPFHG  
LSYTTYDWQAPSVDASFPDGETTLRLTVRNTGERPGTEVVQLYLHDPVGKVARPVVRLVGYARVPLEPGASGE  
VHFTVPADLAAYTGPDGERIVEPGALELRLGVSSADGDVRYTVPVTLTGPERVVGRERRRLRCEVRVK

**Literature:**

1. [Omura et al. \(2001\) Proc. Natl. Acad. Sci. USA 98, 12215-12220](#)