Prozomix Limited, Station Court, Haltwhistle,
Northumberland, NE49 9HN, UK.
Tel: +44 (0) 1434 400455
Fax: +44 (0) 1434 322822
info@prozomix.com
technical@prozomix.com
www.prozomix.com

[full product listing at www.prozomix.com/products/listing]

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0137
LOT:	2008-0137
Activity:	β-Xylosidase
Synonyms:	Xylan 1,4-β-xylosidase, 1,4-β-D-xylan xylohydrolase, exo-1,4-β-xylosidase, xylobiase
Nomenclature:	Xylosidase, GH43
Source organism:	*Streptomyces avermitilis MA4680*
Enzyme Commission No.:	3.2.1.37
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	441 amino acids (view sequence)
Accession No.:	Q82LA2
Molecular weight:	49579.4 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

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Primary sequence:

AQTLTNGTQFTDTSGNGVHAHGGGVIKVGGYYYWFGEDRNADNTFKYVDAYRSTDLKNWEFRSHVLTQAGASELA
SANIERPKVMYNASTGKFVMWMHKENGTDYSEARAAVAVSDTVDGTYTWQGSFQPLGQYMSRDITVFVDTDGTGY
MVSAARENYDLQIYRLTADYTGIDSLVADPWHGGHREAPALFKRGGVYFMLTSGATGWNPNQQQYATATSLAGPW
TAMTNVGDSTAYGSQTAYVLPVQGTSGTSYLYLGDRWGNSFGGSVNDSRYVWLPLTFPTSTSLSMSWYPEVTVDT
VAGTISGTSATYETLTARHSAKCADVPSQSLLTGVALTQYTCNGGNNQKFWFKSVAGGYYELMGRGSSLCLTENV
TAVTQENCTAATSQQWSLTTSGGYVSLKSRASGECLDVSGASTANSAALITYTCNGGTNQQWTRGT

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