

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0062	add this product to cart
LOT:	2012-0062-1	view other β-xylanases
Activity:	β -Xylanase	
Synonyms:	Endo-(1 \rightarrow 4)- β -xylan 4-xylanohydrolase; endo-1,4-xylanase; xylanase; β -1,4-xylanase; endo-1,4-xylanase; endo- β -1,4-xylanase; endo-1,4- β -D-xylanase; 1,4- β -xylan xylanohydrolase; β -xylanase; β -1,4-xylan xylanohydrolase; endo-1,4- β -xylanase; β -D-xylanase; 4- β -D-xylan xylanohydrolase	
Nomenclature:	NpXyn11A, XynA, XylA, GH11, GH 11, belongs to glycoside hydrolase family 11 (member of clan GH-C)	
Source organism:	<i>Neocallimastix patriciarum</i>	
Enzyme Commission No.:	3.2.1.8	
Activity:	- }	NOTE: this product has been produced and is awaiting assay, 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:	-	
Temperature optimum:	-	
[Protein]:	8.472 mg/mL	
Sequence length:	226 amino acids (view sequence)	
Accession No.:	CAA46498 , P29127	
Molecular weight:	25981.7 Da (theoretical)	
	~ 250000 Da (observed by SDS-PAGE)	
	- (observed by mass spectrometry)	
Biological function:	Hydrolysis of β -1,4-xylans	
Potential application(s):	Biomass conversion , carbohydrate research	
Comments:	This truncated enzyme is the C-terminal catalytic module from the native enzyme (residues 275-499). The native enzyme displays unusually high catalytic activity and is one of the few fungal GH11 proteins not inhibited by the wheat protein XIP-I. A notable feature	

revealed by X-ray crystallographic analyses is a relatively extended binding cleft for GH11 enzymes comprising potentially 6 subsites running from -3 and +3. PDB: [2C1F](#), [2VG9](#)

Usage:

Agitate bottle sufficiently to fully homogenise enzyme precipitate before use

Assay:

-

Primary sequence:

MKFTVGNGQNQHKGVNDGFSYEIWLDNTGGNGSMTLGSGATFKAEWNAAVNRGNFLARRGLDFGSQKKATDYDYI
GLDYAATYKQTASASGNSRLCVYGWFGQNRGLNGVPLVEYYIIEDWVDWVPDAQGKMVTIDGAQYKIFQMDHTGPT
INGGSETFKQYFSVRQQKRTSGHITVSDHFKEWAKQGWGIGNLYEVALNAEGWQSSGVADVTLTDVYTTPKGSSP
A

Literature:

1. [Vardakou et al. \(2008\) J. Mol. Biol. 375, 1293-1305](#)