

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0184
<b>LOT:</b>	2008-0184
<b>Activity:</b>	Acetyl xylan esterase
<b>Synonyms:</b>	Acetylxylan esterase; xylan acetyl esterase
<b>Nomenclature:</b>	CE1, CE 1, carbohydrate esterase family 1
<b>Source organism:</b>	<i>Streptomyces coelicolor A3(2)</i>
<b>Enzyme Commission No.:</b>	<a href="#">3.1.1.72</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>	306 amino acids (view sequence)
<b>Accession No.:</b>	<a href="#">O86543</a>
<b>Molecular weight:</b>	35724.8 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Deacetylation of xylans and xylo-oligosaccharides, catalyses the hydrolysis of acetyl groups from polymeric xylan, acetylated xylose, acetylated glucose, alpha-naphthyl acetate, p-nitrophenyl acetate but not from triacetyl glycerol, does not act on acetylated mannan or pectin
<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:**

AGKPETGATRHGAEVVAVTRVADRQVDLTVRSTALGGRTVEVRLLLTPDGWNP HDRRRHQHWPTLWLLHGCCGDYT  
SWTSMTDVAETESLRDVLVVMPEAGWNGWYSDWWNHGQGGPAWETFHTKELRHLLERDWGAGSNRVVAGLSMGG  
QGALLYAARHPGMFRATAAFSGSAHPLLNDESVDRIMGFFAGQDNDPLRVWGD PVAQRGIWQAHD PPHLAKRLRS  
IPVYLS CGDGT TGPLDAPGATS ALEADFN RQNHAAELKRVGARHV TTHFYGP GTHGWAYRERELHASLPMLLG  
ALRVGD

**Literature:**

1. [Bentley \*et al.\* \(2002\) \*Nature\* \*\*417\*\*, 141-147](#)