

β-acetylglucosaminidase 73A from Lactococcus lactis, Recombinant

Cat. No. NATE-1290

Lot. No. (See product label)

Introduction

Description This enzyme releases non-reducing terminal β1-2, β1-3, β1-4 and β1-6 linked N-

acetylglucosamine from complex carbohydrates. When incubated with

oligosaccharides at low concentrations (<50 mU/ml) the enzyme can differentiate between GlcNAc β 1-2Man, GlcNAc β 1-4Man and GlcNAc β 1-6Man linkages. Under such conditions, the enzyme cleaves essentially only β 1-2 linked GlcNAc, with two provisos. Firstly, β 1-2 GlcNAc is not hydrolyzed if the mannose to which it is

substituted has a substitution at C-6. Thus, the enzyme is useful for the analysis of tri-antennary oligosaccharides. Secondly, if the β -linked mannose of the conserved pentasaccharide core is substituted with a "bisecting" GlcNAc then only the β 1-2

linked GlcNAc linked to mannose on the $\alpha 1$ -3 arm is cleaved. At higher concentrations of the enzyme, $\beta 1$ -4 and $\beta 1$ -6 linked GlcNAc may also be

hydrolyzed.

Synonyms beta-N-acetyl-D-hexosaminide; N-acetylhexosaminohydrolase; β -N-

Acetylhexosaminidase; N-Acetyl- β -D-glucosaminidase, β -N-Acetylglucosaminidase

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Product Information

Species Lactococcus lactis

Source E. coli

Form 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2,

0.02% sodium azide and 25% (v/v) glycerol

Molecular Weight 19.4 kDa

Purity >90% by SDS-PAGE

Concentration 1 mg/mL

Optimum pH 6.8

Optimum temperature 35 °C

Specificity Peptidoglycan

Storage and Shipping Information

Storage This enzyme is shipped at room temperature but should be stored at -20 °C.