

β-N-Acetylhexosaminidase from Xanthomonas manihotis, Recombinant

Cat. No. NATE-0934

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.

ApplicationsBiosynthesis of Glycans in Eukaryotes, Glycoprotein Production in Various

Expression Systems, Protein Digestion, Removal of N-Linked & O-Linked Glycans

from Glycoproteins, Sequencing Glycans

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

Acetylglucosaminidase

Product Information

Species Xanthomonas manihotis

Source E.coli

Molecular Weight 71000 daltons

Concentration 4,000 units/ml

Unit Definition One unit is defined as the amount of enzyme required to cleave > 95% of the

terminal, non-reducing β -N-Acetylglucosamine from 1 nmol GlcNAc β 1-4GlcNAc β 1-4GlcNAc-7-amino-4-methyl-coumarin (AMC), in 1 hour at 37°C in a total reaction

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volume of 10 μl.

Storage and Shipping Information

Storage 4°C, Avoid repeated freeze/thaw cycles.