

β-N-Acetylhexosaminidase from Xanthomonas manihotis, Recombinant

Cat. No. NATE-0934 Lot. No. (See product label)

Introduction

| Description | This enzyme releases non-reducing terminal β 1-2, β 1-3, β 1-4 and β 1-6 linked N-acetylglucosamine |
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| | from complex carbohydrates. When incubated with oligosaccharides at low concentrations (<50 |
| | mU/ml) the enzyme can differentiate between GlcNAc eta 1-2Man, GlcNAc eta 1-4Man and GlcNAc eta 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 α 1-3 arm is cleaved. At |
| | higher concentrations of the enzyme, β 1-4 and β 1-6 linked GlcNAc may also be hydrolyzed. |
| Applications | Biocypthesis of Glycons in Eukonyotos, Clyconstain Braduction in Various Expression Systems, Bratain |

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-A | cetyl-β-D-glucosaminidase, | β-N-Acetylglucosaminidase |
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Product Information

| Species | Xanthomonas manihotis |
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| 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 volume of 10 μ l. |

Storage and Shipping Information

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