

β -acetylglucosaminidase 73A from *Clostridium perfringens*, Recombinant

Cat. No. NATE-1289

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 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 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.

Synonyms beta-N-acetyl-D-hexosaminide; N-acetylhexosaminohydrolase; β -N-Acetylhexosaminidase; N-Acetyl- β -D-glucosaminidase, β -N-Acetylglucosaminidase

Product Information

Species	Clostridium perfringens
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl ₂ , 0.02% sodium azide and 25% (v/v) glycerol
Molecular Weight	24.6 kDa
Purity	>90% by SDS-PAGE
Concentration	0.25 mg/mL
Optimum pH	8
Optimum temperature	37 °C
Specificity	Peptidoglycan

Storage and Shipping Information

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