

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

Cat. No. NATE-1289

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 GlcNAcβ1-2Man, GlcNAcβ1-4Man and GlcNAcβ1-6Man linkages. Under such conditions, the enzyme cleaves essentially only β1-2 linked GlcNAc, with two provisos. Firstly, β1-2 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 β1-2 linked GlcNAc linked to mannose on the α1-3 arm is cleaved. At higher concentrations of the enzyme, β1-4 and β1-6 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**

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

### **Storage and Shipping Information**

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