

## Hexosaminidase 3C from *Saccharophagus degradans*, Recombinant

Cat. No. NATE-1454

Lot. No. (See product label)

### Introduction

#### Description

Hexosaminidase, sometimes called  $\beta$ -N-acetylhexosaminidase, is reported to liberate terminal  $\beta$ -linked N-acetylglucosamine and N-acetylgalactosamine from a variety of substrates. The activity of  $\beta$ -N-acetylglucosaminidase may be determined with the chromogenic substrate p-nitrophenyl-N-acetyl- $\beta$ -D-glucosaminide.  $\beta$ -N-acetylglucosaminidase hydrolyzes the terminal nonreducing N-acetyl-D-hexosamine residues. This enzyme contains two predominant isozymes, Hex A, a heterodimer, and Hex B, a homodimer. N-acetylglucosamine, acetamide, N-2-acetamido-2-deoxyglucosylamine, N-acetylnojirimycin, and N-acetyldeoxynojirimycin are known inhibitors.

#### Synonyms

EC 3.2.1.52; 9012-33-3; hexosaminidase;  $\beta$ -acetylaminodeoxyhexosidase; N-acetyl- $\beta$ -D-hexosaminidase; N-acetyl-beta-hexosaminidase;  $\beta$ -hexosaminidase;  $\beta$ -acetylhexosaminidase;  $\beta$ -D-N-acetylhexosaminidase;  $\beta$ -N-acetyl-D-hexosaminidase;  $\beta$ -N-acetylglucosaminidase; hexosaminidase A; N-acetylhexosaminidase;  $\beta$ -D-hexosaminidase

### Product Information

<b>Species</b>	Saccharophagus degradans
<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>EC Number</b>	EC 3.2.1.52
<b>CAS No.</b>	9012-33-3
<b>Molecular Weight</b>	39.5 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	1 mg/mL
<b>Optimum pH</b>	5.0-8.0
<b>Optimum temperature</b>	37 °C
<b>Specificity</b>	Terminal non-reducing N-acetyl-D-hexosamine residues in N-acetyl- $\beta$ -D-hexosaminides

### Storage and Shipping Information

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