

Hexosaminidase 3A from *Thermotoga neapolitana*, Recombinant

Cat. No. NATE-1453

Lot. No. (See product label)

Introduction

Description Hexosaminidase, sometimes called β -N-acetylhexosaminidase, is reported to liberate terminal β -linked N-acetylglucosamine and N-acetylgalactosamine from a variety of substrates. The activity of β -N-acetylglucosaminidase may be determined with the chromogenic substrate p-nitrophenyl-N-acetyl- β -D-glucosaminide. β -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; β -acetylaminodeoxyhexosidase; N-acetyl- β -D-hexosaminidase; N-acetyl-beta-hexosaminidase; β -hexosaminidase; β -acetylhexosaminidase; β -D-N-acetylhexosaminidase; β -N-acetyl-D-hexosaminidase; β -N-acetylglucosaminidase; hexosaminidase A; N-acetylhexosaminidase; β -D-hexosaminidase

Product Information

Species	<i>Thermotoga neapolitana</i>
Source	<i>E. coli</i>
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
EC Number	EC 3.2.1.52
CAS No.	9012-33-3
Molecular Weight	40.6 kDa
Purity	>90% by SDS-PAGE
Concentration	0.25 mg/mL
Optimum pH	7.0-8.0
Optimum temperature	65-75 °C
Specificity	Chitobiose and chitooligosaccharides

Storage and Shipping Information

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