Creative Enzymes®

β-N-Acetylglucosaminidase from Streptococcus pneumoniae, Recombinant

Cat. No. NATE-0782

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-actylglucosaminidase may be determined with the chromogenic substrate p-nitrophenyl-N-acetyl-β-D-glucosaminide. β-N-actylglucosaminidase 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-deoyglucosylamine, N-acetylnojirimycin, and N-acetyldeoxynojirmycin are known inhibitors.
Applications	Hexosaminidase is an enzyme involved in the hydrolysis of terminal N-acetyl-D-hexosamine residues in N-acetyl-β-D-hexosaminides.
Synonyms	EC 3.2.1.52; 9012-33-3; hexosaminidase; β-acetylaminodeoxyhexosidase; N-acetyl-β-D-hexosaminidase; N-acetyl-beta-hexosaminidase; β-hexosaminidase; β-acetylhexosaminidinase; β-D-N-acetylhexosaminidase; β-N-acetyl-D-hexosaminidase; β-N-acetylglucosaminidase; hexosaminidase A; N-acetylhexosaminidase; β-D-hexosaminidase

Product Information

Species	Streptococcus pneumoniae
Source	E. coli
Form	buffered aqueous solution, Solution in 20 mM Tris-HCl, pH 7.5, 25 mM NaCl
EC Number	3.2.1.52
CAS No.	9012-33-3
Activity	> 80 units/mg protein
Unit Definition	One unit will hydrolyze 1.0 µmole of p-nitrophenyl N-acetyl-β-D-glucosaminide to p-nitrophenol and N-acetyl-D-glucosamine per min at the pH 5 at 37°C.

Usage and Packaging

Package	vial of > 1.0 unit

Storage and Shipping Information

Storage	2-8°C