

Native Canavalia ensiformis β-N-Acetylglucosaminidase

Cat. No. NATE-0780

Lot. No. (See product label)

Introduction

Description This enzyme, 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 β-N-acetylglucosaminidase is a lysosomal enzyme used to hydrolyze N-acetyl-β-D-

glucosaminides and N-acetyl- β -Dgalactosaminides. It is used in chemoenzymatic synthesis of oligosaccharides based on their effective transglycosylation of β -GlcNAc and β -GalNAcc. It may be a useful tool to study Alzheimer's Disease 1. Acetylglucosaminidase from Canavalia ensiformis has been used to study enzymic

detachment of biofilms.

Synonyms hexosaminidase; β-acetylaminodeoxyhexosidase; N-acetyl-β-D-hexosaminidase; N-acetyl-β-D-hex

acetyl-beta-hexosaminidase; β -hexosaminidase; β -acetylhexosaminidinase; β -D-nacetylhexosaminidase; β -N-acetyl-D-hexosaminidase; β -N-acetylglucosaminidase; hexosaminidase A; N-acetylhexosaminidase; β -D-hexosaminidase; EC 3.2.1.52;

9012-33-3

Product Information

Source Canavalia ensiformis

Form ammonium sulfate suspension. Suspension in 2.5 M (NH4)2SO4, pH 7.0

EC Number EC 3.2.1.52

CAS No. 9012-33-3

Activity > 15 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 pH 5.0 at 25°C.

1/1

Storage and Shipping Information

Storage 2-8°C

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