Creative Enzymes®

β-Acetylglucosaminidase 18A from Bacteroides thetaiotaomicron, Recombinant

Cat. No. NATE-1291

Lot. No. (See product label)

Introduction

Description	β-acetylglucosaminidase 18A, is an enzyme from Bacteroides thetaiotaomicron that participates in the endohydrolysis of the diacetylchitobiosyl unit in high-mannose glycopeptides and glycoproteins containing the (Man(GlcNAc)(2))Asn-structure. One N-acetyl-D-glucosamine residue remains attached to the protein; the rest of the oligosaccharide is released intact. Recombinant BtAcp18A (GH18), purified from Escherichia coli, is a single domain family 18 Glycoside Hydrolase (GH18).
Synonyms	beta-N-acetyl-D-hexosaminide; N-acetylhexosaminohydrolase; β-N-Acetylhexosaminidase; N-Acetyl-β-D-glucosaminidase, β-N-Acetylglucosaminidase

Product Information

Species	Bacteroides thetaiotaomicron
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol.
EC Number	EC 3.2.1.96
CAS No.	37278-88-9
Molecular Weight	50.3 kDa
Purity	>50% by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	7.5
Optimum temperature	37 °C
Specificity	Mammalian high mannose N-glycans (HMNG), such as Man9GlcNAc2

Storage and Shipping Information

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