Creative Enzymes®

Native Elizabethkingia miricola PNGase F

Cat. No. NATE-0602

Lot. No. (See product label)

Introduction

Description	In enzymology, a peptide-N4-(N-acetyl-beta-glucosaminyl) asparagine amidase (EC 3.5.1.52) is an enzyme that catalyzes a chemical reaction that cleaves a N4-(acetyl-beta-D-glucosaminyl)asparagine residue in which the glucosamine residue may be further glycosylated, to yield a (substituted) N-acetyl-beta-D-glucosaminylamine and a peptide containing an aspartate residue. This enzyme belongs to the family of hydrolases, specifically those acting on carbon-nitrogen bonds other than peptide bonds in linear amides.
Applications	Used to deglycosylate protein.
Synonyms	glycopeptide N-glycosidase; glycopeptidase; N-oligosaccharide glycopeptidase; N-glycanase; glycopeptidase; Jack-bean glycopeptidase; PNGase A; PNGase F; glycopeptide N-glycosidase; peptide-N4-(N-acetyl-β-glucosaminyl)asparagine amidase; EC 3.5.1.52; PNGase F; 83534-39-8

Product Information

Source	Elizabethkingia miricola
Form	Supplied as a solution in 20 mM Tris HCl, pH 7.5, 50 mM NaCl and 1 mM EDTA
EC Number	EC 3.5.1.52
CAS No.	83534-39-8
Molecular Weight	36 kDa
Activity	> 20,000 units/mg protein and > 5,000 units/ml
pH Stability	active in the pH range of 6-10
Optimum pH	8.6
Unit Definition	One unit will catalyze the release of N-linked oligosaccharides from 1 nanomole of denatured ribonuclease B in one minute at 37°C at pH 7.5 monitored by SDS-PAGE. One Sigma unit of PNGase F activity is equal to 1 IUB milliunit.

Storage and Shipping Information

Storage	2-8°C
Stability	The product remains active for at least 12 months when stored properly. Exposure for several days to ambient temperatures will not reduce activity. Do Not Freeze.