

Native Elizabethkingia meningoseptica PNGase F

Cat. No. NATE-0601

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. Proteomics Grade PNGase F has been extensively purified and lyophilized from dilute potassium phosphate buffer to produce a stable product. The product is free from glycerol and other stabilizers, and contains very low levels of buffer salts. This highly purified material is excellent for N-linked deglycosylation of glycoproteins or glycopeptides in gel, in solution, or on blot membranes.

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 meningoseptica

EC Number

EC 3.5.1.52

CAS No.

83534-39-8

Molecular Weight

~36 kDa

Purity

> 95% (SDS-PAGE)

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