Creative Enzymes®

PNGase F from Flavobacterium meningosepticum, Recombinant

Cat. No. NATE-1287

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.
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

Species	Flavobacterium meningosepticum
Source	E. coli
Form	20 mM Tris - pH 7.5, 50 mM NaCl, 0.5 mM EDTA
CAS No.	83534-39-8
Molecular Weight	34,800 daltons (Apparent)
Purity	>95% by SDS-PAGE
Activity	>10 U/mg
Concentration	7 U/mL
Isoelectric point	8.39
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the release of >95% N-linked oligosaccharides from 60 µmoles of denatured ribonuclease B in 1 hour at 37C, pH 7.5. One micromolar unit of PNGase F activity is equal to 1,000 nanomolar units (IUB milliunits).

Storage and Shipping Information

Storage	2-8°C. Avoid multiple freeze/thaw cycles.
Stability	1 year