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