PNGase F (Peptide-N-Glycosidase F)
Peptide-N4-(acetyl-ß-glucosaminyl)-asparagine amidase
N-Glycosidase F

Source
Elizabethkingia meningosepticum
was (Chyrseobacterium/Flavobacterium men.)

Catalog Number  E-PNG05
Certification of Analysis Lot Number  604.1B

EC 3.5.1.52

Applications
•Amino acid sequence determination
•X-Ray crystallography
•Removing heterogeneity due to carbohydrates
•Studying carbohydrate ligand binding
•Removing carbohydrate epitopes from antigens
•Studying the role of glycosylation in protein folding and activity.

Contents
1 vial: PNGase F - 200 µl (1 U)

Specific Activity 25 U/mg
Activity 5 U/ml

Specific Activity
One unit of PNGase F activity is defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micromole of denatured BSA and RNase B in 1 minute at 37°C, pH 7.5. Cleavage is monitored by SDS-PAGE (cleaved RNase B migrates faster).

E-PNG05 PNGase F
Specifications - Protocol

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Quality & Purity

QA-Bio PNGase F is tested for contaminating protease as follows: 10 µg of denatured BSA is incubated at 37°C for 24 hours with 2 µl of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.

The absence of exoglycosidase contaminants is confirmed by extended incubations with the corresponding pNP-glycosides.

PNGase F is isolated from culture supernatants of *Elizabethkingia (Chryseobacterium or Flavobacterium) meningosepticum*. Significant contaminants are the endoglycosidase F enzymes, which cleave within the diacetylchitobiase core of some N-linked oligosaccharides leaving an N-acetylglucosamine residue attached to the asparagine. These contaminants are chromatographically removed from QA-Bio PNGase F preparations.

Directions for use

1. Add up to 200 µg of glycoprotein to an Eppendorf tube. Adjust to 35 µl final volume with de-ionized water.

2. Add 10 µl 5x Reaction Buffer 7.5 and 2.5 µl of Denaturation Solution. Heat at 100°C for 5 minutes.

3. Cool. Add 2.5 µl of Triton X-100 and mix.
   NOTE: Failure to add Triton X-100 will result in a 3-fold reduction of PNGase F activity.

4. Add 2.0 µl of PNGase F to the reaction. Incubate 3 hours at 37°C.

   If SDS or heat denaturation is omitted, increase incubation time to at least 24 hours.

   Monitor cleavage by SDS-PAGE.

References:


Warranties and liabilities

QA-Bio warrants that the above product conforms to the specifications described herein. Should the product fail for reasons other than through misuse QA-Bio will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and QA-Bio makes no other warranties, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose. QA-Bio shall not be liable for any incidental, consequential or contingent damages.

This product is intended for *in vitro* research only.

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