

PNGase F, Recombinant

(*E. meningoseptica* / *C. meningosepticum*)

CATALOG NO: P1598-10 10 µg
 P1598-50 50 µg
 P1598-100 100 µg

ALTERNATE NAMES: Peptide N-Glycosidase F, Peptide-N⁴-(N-acetyl-β-D-glucosiminy) asparagine amidase F, N-glycosidase F

ACCESSION #: Q9XBM8 (1-314 aa)

SOURCE: *E. coli*

PURITY: ≥ 95% by SDS-PAGE

SPECIFIC ACTIVITY: ≥ 10 U/mg

MOL. WEIGHT: 37.1 kDa (with N-terminal His tag)

FORMULATION: Liquid, sterile filtered in 25 mM Tris-HCl Buffer pH 7.5

STORAGE CONDITIONS: For long term storage, divide into aliquots and store at -20°C for two years. Avoid repeated freezing and thawing cycles.

DESCRIPTION: PNGase F is an amidohydrolase, which cleaves the β-aspartylglucosamine bond between the innermost GlcNAc of glycans and asparagine residues of high mannose, hybrid and complex oligosaccharides from N-linked glycoproteins and glycopeptides. The cleavage results in a deaminated protein or peptide and free glycans. PNGase F is widely used in the deglycosylation of glycoproteins to study glycans and identify glycosylation sites.

BIOLOGICAL ACTIVITY: Biological activity is performed using BioVision's pNGase F Deglycosylation Kit (BioVision Cat # K2061-100).

UNIT DEFINITION:

One unit of pNGase F is defined as the amount of enzyme that catalyzes the deglycosylation of 1 µmole of denatured ribonuclease B (RNase B) in one minute when 50% RNase B (20 µg) is deglycosylated for 60 min at 37°C and monitored on an SDS-PAGE under the assay conditions.

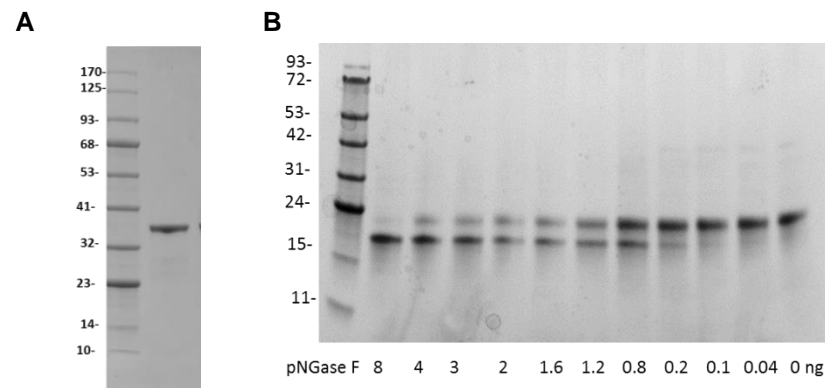


Fig. A. SDS-PAGE (4-20%) Analysis of Recombinant pNGase: Recombinant protein (3 µg) was loaded under reducing conditions and stained with Coomassie Blue.

Fig. B. pNGase F Activity Assay: 20 µg of denatured RNase B was treated with various amounts of pNGase F for 60 min at 37°C using BioVision's pNGase F Deglycosylation Kit (BioVision Cat # K2061-100). 4 µg of each digested RNase B samples were analyzed on SDS-PAGE. The percentage of digestion was determined by densitometry analyses and the activity of the pNGase F was calculated.

RELATED PRODUCTS:

- L-Asparaginase (Cat# P1321)
- FAAH1 Inhibitor Screening Kit (Fluorometric) (Cat# K379)
- Fatty Acid Amide Hydrolase 1 (FAAH1), Recombinant (Cat# P1257)
- ASAH2 Antibody (Cat# 3828)

FOR RESEARCH USE ONLY! Not to be used in humans.