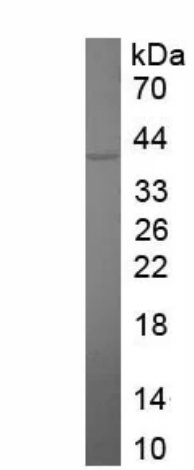
Active Peptide-N4-N-Acetyl-Beta-D-Glucosaminyl Asparagine Amidase F (PNGaseF)

Catalog#:PEV13015

概述（Summary）

别称（Alternative Names）	Ngl; PNG; PNGase F; Glycopeptide N-glycosidase; N-glycanase
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala41-Asn354】
Accession #	P21163
表达宿主（Host）	E.coli
种属（Species）	Pan-species (General)
预测分子量（Predicted MW）	38.5 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Cleaves an entire glycan from a glycoprotein. Requires that the glycosylated asparagine moiety (reaction 1) be substituted on its amino (R1) and carboxyl (R2) terminus with a polypeptide chain.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

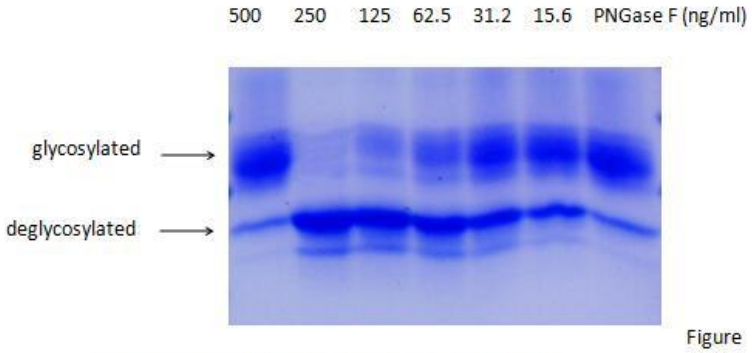


Figure 1. The deglycosylation of IFNg detect by SDS-PAGE

PNGase F (Peptide-N-glycosidase F) is a kind of enzymes for the deglycosylation of glycoproteins. The enzyme releases asparagine-linked oligosaccharides from glycoproteins and glycopeptides by hydrolyzing the amide of the asparagine (Asn) side chain. Thus, the activity of recombinant PNGase F measured by deglycosylating Interferon Gamma (IFNg) under denatured conditions. Prepare 10×denaturing buffer(5% SDS,400mM DTT), dilute IFNg to 1 μg/μl by 1×denaturing buffer,then heat the solution to 100℃for 10 minutes to denature the glycoprotein. Cool to room temperature and microcentrifuge briefly. Dobule dilution of recombinant PNGase F by assay buffer(50mmol/L Tris(pH7.4),1% NP-40), add 10 μl denatured IFNg to 10 μl different concentration of recombinant PNGase F, incubate reaction mixture at 37℃ for 1 hour. Stop the reaction by heating to 100℃ for 5 minutes, assess deglycosylation by SDS-PAGE. In the 10 μl reaction system, the amount of PNGase F needed to remove more than 95% carbohydrates from 10 μg denatured IFNg in 1 hour at 37℃ was defined as a unit. In this procedure, one unit is equal to 2.5ng recombinant PNGase F . The results are shown in Figure 1.

注意事项（Note）

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