

PNGase F

Summary

Catalog No. YXX04901

Form Liquid

Storage buffer 20mM Tris-HCl, pH 7.5, 50mM NaCl, 5mM EDTA, 50% glycerol

Concentration 80,000 units/ml

Purity >95% as determined by SDS-PAGE.

Applications Removal of high mannose N-glycans from glycoproteins

Target PNGase F

One unit is defined as the amount of enzyme required to remove > 95%

Biological activity of the carbohydrate from 10 µg of denatured RNase B in 1 hour at 37°C in

a total reaction volume of 10 µl.

Endotoxin level Please contact with the lab for this information.

Expression system E. coli

Protein length PNGase F is cloned from Elizabethkingia miricola and expressed in E.coli.

Nature Recombinant

Predicted molecular weight 37.08 kDa

Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store

Stability and Storage at 2 to 8 °C for one week .Store at -20 to -80 °C for twelve months from

the date of receipt.





Standard Operating Procedure

Denaturing Reaction Conditions:

- 1. Combine 1-20 μg of glycoprotein, 1 μl of Glycoprotein Denaturing Buffer (10X) and H_2O (if necessary) to make a 10 μ l total reaction volume.
- 2. Denature glycoprotein by heating reaction at 100°C for 10 minutes.
- 3. Chill denatured glycoprotein on ice and centrifuge 10 seconds.
- 4. Make a total reaction volume of 20 μl by adding 2 μl GlycoBuffer 2 (10X), 2 μl 10% NP-40 and 6 μl H2O.
- 5. Add 1 μl PNGase F, mix gently.
- 6. Incubate reaction at 37°C for 1 hour.

Note: The simplest method of assessing the extent of deglycosylation is by mobility shifts on SDS-PAGE gels.

Note: To deglycosylate different glycoprotein, longer incubation time may be required.

Experimental Procedure

Non-Denaturing Reaction Conditions:

- 1.Combine 1-20 µg of glycoprotein, 2 µl of GlycoBuffer 2 (10X) and H2O (if necessary) to make a 20 μl total reaction volume.
- 2.Add 2-5 µl PNGase F, mix gently.
- 3.Incubate reaction at 37°C for 4 24 hours.

Note: To deglycosylate a native glycoprotein, longer incubation time as well as more enzyme may be required.

Note: The simplest method of assessing the extent of deglycosylation is by mobility shifts on SDS-PAGE gels.





Recombinant Proteins & Antibodies

Species Elizabethkingia miricola

In general, proteins are provided as lyophilized powder/frozen liquid.

Shipping They are shipped out with dry ice/blue ice unless customers require

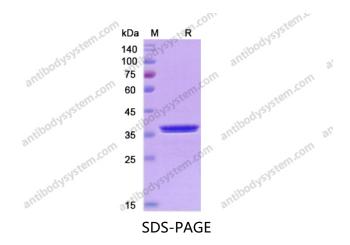
otherwise.

Note For research use only.

Description

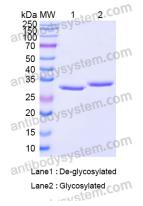
Peptide -N-Glycosidase F, also known as PNGase F, is an amidase that cleaves between the innermost GlcNAc and asparagine residues of high mannose, hybrid, and complex oligosaccharides from N-linked glycoproteins

Data Image



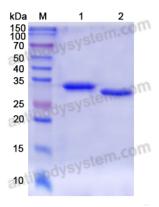
SDS PAGE for recombinant Elizabethkingia miricola PNGase F

Recombinant Proteins & Antibodies



The deglycosylation of protein detect by SDS-PAGE

Bioactivity



Experiment Example

Lane1: Before cleavage Lane2 : After cleavage

The control protein was cleaved by PNGase F at

37°C for 1 h under denaturing conditions.