PNGase F

Cat. No. GTX141281-pro

Species	Elizabethkingia miricola

Package
75 kU

PRODUCT

Summary

Peptide:N-glycosidase F (PNGase F) removes all N-linked glycans (high-mannose, hybrid, and complex) from glycopeptides and glycoproteins. This PNGase F, a recombinant amidase cloned from Elizabethkingia miricola, cleaves between the innermost GlcNAc and asparagine residues. Protocols for both denaturing and non-denaturing conditions are shown in the "Application Note" section.

One vial of GTX141281-pro contains 75000 units (75kU) PNGase F.

Applications

Application Note

One unit is defined as the amount of enzyme required to remove > 95% of the carbohydrate from 10 µg of denatured RNase B in 1 hour at 37°C in a total reaction volume of 10 µl.

Protocols for both denaturing and non-denaturing conditions:
Reaction buffer (not included; must be prepared by user):

- Buffer 1 (5% SDS, 0.4 M DTT)
- Buffer 2 (0.5 M Sodium Phosphate, pH 7.5)
- 10% IGEPAL® CA-630

Denaturing conditions:

1. Combine 10-20 µg of glycoprotein, 1 µl Buffer 1 (5% SDS, 0.4 M DTT), and H_2O to a total volume of 10 µl.
2. Denature glycoprotein by heating at 100°C for 10 minutes.
3. Cool glycoprotein on ice.
4. Add 2 µl Buffer 2 (0.5 M Sodium Phosphate, pH 7.5), 2 µl 10% IGEPAL® CA-630, 2 µl PNGase F and H_2O to a total volume of 20 µl.
5. Incubate at 37°C for 1 hour.
6. Analyze by SDS-PAGE.

Non-denaturing conditions:

1. Combine 10-20 µg of glycoprotein, 1 µl Buffer 2 (0.5 M Sodium Phosphate, pH 7.5), 1 µl PNGase F, and H_2O to a total volume of 10 µl.
2. Incubate at 37°C for 16-20 hours.
3. Analyze by SDS-PAGE.

Observed MW (kDa)	34 kDa.

Properties

Form	Liquid
Buffer	PBS, 10% Glycerol, 5 mM EDTA
Preservative	No Preservative

For full product information, images and publications, please visit our website.

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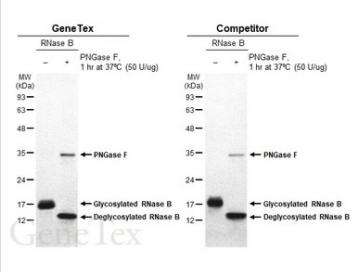
Storage	Store at 4ºC or below. Do not vortex.
Concentration	500 Unit/µl (Please refer to the vial label for the specific concentration.)
Region/Sequence	PNGase F protein (41-354 a.a. of #P21163)
Expression System	E. Coli
Purity	>95%
Endotoxin	<0.1 EU/mg
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



GTX141281-pro Image

The enzyme activity of PNGase F protein (GTX141281-pro) was analyzed using 10% SDS-PAGE, stained with Coomassie blue, and captured by monochrome camera.

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