

PNGase F

Cat. No.:	HY-P2929
CAS No.:	83534-39-8
Target:	Biochemical Assay Reagents; Glucosidase
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month

PNGase F

BIOLOGICAL ACTIVITY

Description	PNGase F, a glycosidase, catalyzes the cleavage of an internal glycoside bond in an oligosaccharide. PNGase F removes nearly all N-linked oligosaccharides from glycoproteins. PNGase F can release N-glycans from glycoproteins in glycoanalytical workflows ^{[1][2]} .
In Vitro	<p>Application: 1. In vitro de-glycosylation modification of antibodies, immunoglobulin fusion proteins or other glycoproteins; 2. Characterization of whether there is N-glycosylation modification in proteins.</p> <p>molecular weigh: 36 kDa optimal temperature: 37 °C pH range:6.0-10.0 temperature range: 4-50 °C ionic strength range: 0-1 M NaCl PNGase F storage solution: 10 m M Tris (pH7.4), 50 m M NaCl, 5 m M EDTA. The storage solution does not contain glycerol, making it easier to optimize chromatographic conditions for HPLC methods. Reaction Buffer (10X): 500 m M Sodi M Phosphate (pH7.5)</p> <p>PNGase F cannot hydrolyze N-glycosides containing core α 1-3 fucose, which are common in plant and insect glycoproteins. In this case, PNGase A needs to be used. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Research Square Preprint. 2023 Dec 23.

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REFERENCES

- [1]. Vilaj M, et al. Evaluation of different PNGase F enzymes in immunoglobulin G and total plasma N-glycans analysis. *Glycobiology*. 2021 Jan 9;31(1):2-7.

[2]. Huang J, et al. Highly Efficient Release of Glycopeptides from Hydrazide Beads by Hydroxylamine Assisted PNGase F Deglycosylation for N-Glycoproteome Analysis. Anal Chem. 2015 Oct 20;87(20):10199-204.

Caution: Product has not been fully validated for medical applications. For research use only.

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