Differentiating Research

Product Details

PNGase F, 500U/µL

Product Overview

DX/DT's PNGase F is an enzyme commonly used in biochemical research for the de-glycosylation of glycoproteins. The enzyme cleaves the glycosidic bond between the N-acetylglucosamine (GlcNAc) and the asparagine (Asn) residues of the N-linked glycans, releasing the glycan moiety from the protein backbone. PNGase F is highly specific and effective, making it a popular tool for protein analysis and characterization, including protein identification, protein quantification, and structural studies.

Catalog Details

R1301	20,000 U	Visit us for more
R1302	1 Lakh U	www.dxbidt.com

Storage

- 20 ℃

Protocol

A. Deglycosylation using PNGase F for denaturing conditions

1. Take upto 20 µg of glycoprotein, 1 µl of Glycoprotein Denaturing Buffer (10X) and water to make a 10 µl total reaction volume.
2. Heat the above reaction mixture at 100℃ for at least 10 minutes and chill it immediately.
3. Spin the the reaction mixture for 15s.
4. Add 2 µl GlycoBuffer (10X), 2 µl 10% NP-40 and 6 µl of Water to make upto 20µL.
5. For the above reaction mixture, add 1 µl PNGase F and mix gently.
6. Incubate reaction at 37°C for 1 hour.
7. Analyze by SDS-PAGE

B. Non-denaturing conditions (useful in Mass-Spec applications)

1. Take upto 20 µg of glycoprotein, 1 µl of Glyco Buffer (10X) and water to make a 20 µl total reaction volume.
2. Add 2-5µL of DX/DT PNGase F and mix the above reaction.
3. Incubate reaction at 37°C for 4 - 24 hours (Deglycosylation of a native glycoprotein may require more incubation time and more enzyme)
4. Analyze by SDS PAGE

Quality Control Assays

1. **Purity:** SDS Page analysis with Coomassie Blue Staining resulted in ≥ 95% purity.
2. **Nuclease tests:** No contamination of endo or exonucleases were detected.
3. **Protease tests:** No protease activity is detected through SDS PAGE and HPLC analysis.

Order Related Queries

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