

Native *Flavobacterium meningosepticum* PNGase F

Cat. No. PNGase F-01F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PNGase F is purified from <i>Flavobacterium meningosepticum</i> and is free from protease and Endo F contaminating activities.
Species	<i>Flavobacterium meningosepticum</i>
Description	PNGase F is the most effective enzymatic method for removing nearly all N-linked oligosaccharides from glycoproteins. As an amidase, PNGase F can cleave between the innermost GlcNAc and asparagine residues in high-mannose, hybrid, and complex-type oligosaccharides.
Molecular Mass	36 kDa
Unit Definition	One unit is defined as the amount of enzyme required to remove over 95% of the glycan chains from 10 µg of denatured RNase B in a total reaction volume of 10 µL at 37 centigrade for 1 hour.
Unit Definition Assay	Ten micrograms of RNase B (control substrate) is denatured for 10 minutes at 100 centigrade using 1× Glycoprotein Denaturing Buffer (0.5% SDS, 40 mM DTT). After the addition of NP-40 and GlycoBuffer 2, two-fold diluted PNGase F is added, and the reaction mixture is incubated at 37 centigrade for 1 hour. The reaction products are then separated and observed by SDS-PAGE. 1× Glycoprotein Denaturing Buffer: 0.5% SDS, 40 mM DTT 1× NP-40: 1% NP-40 (dissolved in MilliQ-H2O)
Purity	≥ 95% (determined by SDS-PAGE and ESI-MS)

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Heat Inactivation 75 centigrade for 10 minutes

Note

1. SDS inhibits the activity of PNGase F, so the reaction mixture must contain NP-40. The mechanism by which this nonionic detergent counteracts the inhibitory effect of SDS is not yet clear. 2. To deglycosylate glycoproteins under non-denaturing conditions, it is recommended to increase the enzyme amount and extend the incubation time. 3. PNGase F does not cleave N-linked glycans containing a core α 1-3 fucose.

Storage Buffer

20 mM Tris-HCl, 50 mM NaCl, 5 mM EDTA, 50% Glycerol, pH 7.5 at 25 centigrade.

Reference

1. Maley, F. et al. (1989). Anal. Biochem. 180, 195-204. 2. Tretter, V. et al. (1991). Eur. J. Biochem.. 199, 647-652. 3. Plummer, T.H. Jr. and Tarentino, A.L. (1991). Glycobiology. 1, 257-263.

GENE INFORMATION

Synonyms

PNGase F

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