For research use only

ISO9001

PNGase F

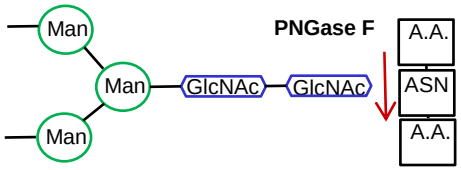
Product	Quantity	Cat. No.	Remarks
PNGase F	50,000 unit	EBG-1005	500 unit/μl

Description

PNGase F (N-Glycosidase F) is a recombinant glycosidase expressed and purified from *E.coli* which carries the *Flavobacterium meningosepticum* gene. PNGase F cleaves between the innermost N-acetylglucosamine and asparagine residues of the chitobiose core of N-linked glycans, leaving only asparagine.

PNGase F has a molecular weight of ~36.8 kDa. The optimal pH is 7.5.

Substrate Specificity



- Asn should be linked to at least one amino acid at the N- or C-terminal
- Hybrid N-linked oligosaccharides (except 1-3 linked fucose)

Product Component

- PNGase F: 100 μl (500 unit/μl)
- 10x Reaction Buffer : 500 mM sodium citrate, pH 7.5.

Unit Definition

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

Specific Activity

500 unit/μl, 1,000 unit/μg

Storage Buffer

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

PNGase F Reaction Condition

10 μg of RNase B are denatured with 0.5% SDS, 1% β-mercaptoethanol at 100°C for 10 min. After the addition of Reaction Buffer to final 1x, PNGase F is added and the reaction mix is incubated for 1 hr at 37°C. Separation of reaction products is analyzed by SDS-PAGE (cleaved RNase B migrates faster).

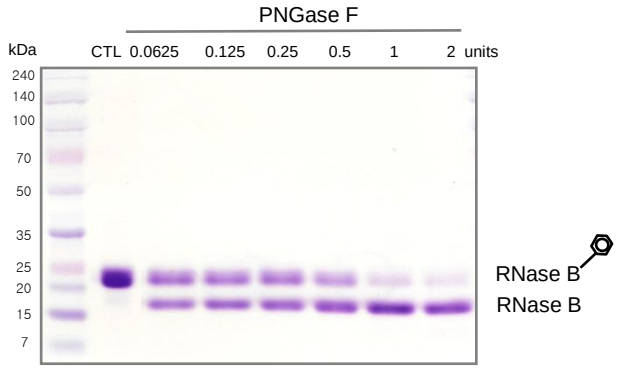
The activity of PNGase F is not affected by addition of 0.5% SDS. For a native glycoprotein, 5-fold more enzyme and longer incubation time will be required.

Storage Temperature

Store at -20℃.

QC Tests

Activity, SDS-PAGE purity, performance tests.



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