PNGase F-II

Catalog No	IT-000-PNGF2
Source	Recombinant protein from E. coli., MW. 62kD
Formulation	20 mM Tris pH 7.4, 50 mM NaCl, 50% glycerol.
Protein	PNGase F-II, a novel Peptide N-Glycosidase (PNGase) from *E. meningoseptica*, is able to remove asparagine-linked oligosaccharide chains from glycoproteins and glycopeptides. Its structure and substrate specificity are different from those of PNGase F. Its GenBank # is AKH93646.
Applications	Removal of carbohydrate residues from proteins and peptides.
Activity	10,000 units in 100,000 units/ml
Definition of Activity Unit	One unit is defined as the amount of enzyme required to remove >95% of the carbohydrate from 1µg of denatured RNase B in 3 hour at 37°C in a total reaction volume of 20µl.
Reaction	Typical reaction conditions are as follows: a) Combine 1–10µg of glycoprotein, 1µl of 10x Denaturing Buffer and H_2O (if necessary) to make a 10µl total reaction volume. Denature glycoprotein by heating reaction at 100°C for 10 minutes. b) Make a total reaction volume of 20µl by adding 2µl 10x Reaction Buffer, 2µl 10% NP-40, 5µl H_2O and 1µl PNGase F-II. Incubate at 37°C for 3 hour.
Reagents Supplied with Enzyme:	10x Denaturing Buffer: 5% SDS, 0.4 M DTT 10x Reaction Buffer: 0.5 M Sodium Phosphate (pH 7.4 @ 25 ℃) 10% NP-40
Storage	Keep it at 4℃ if used within a month. For long term storage, split it into small aliquots and keep at -80℃. Avoid repeated freezing and thawing. The product will be expired one year after receiving if stored properly. Non-hazardous. No MSDS required.
Use Limitation	For research use only, not for use in diagnostic procedures.
Reference	Sun, G.Q., et al. (2015) Identification and Characterization of a Novel Prokaryotic Peptide N-Glycosidase From *ELIZABETHKINGIA MENINGOSEPTICA*. JBC 290: 7452-62.