

Recombinant PNGase F, Mass Spec Grade

Cat. No. PNGase F-47 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PNGase F (Peptide-N-glycosidase F) is a protease for deglycosylation of glycoproteins, and is produced by recombinant protein expression.
Description	The enzyme hydrolyze the N-terminal of the asparagine (Asn) residue side chain to release asparagine-linked oligosaccharides from glycoproteins and glycopeptides. The oligosaccharides can be high mannose, hybrid, or complex type.
Form	rPNGase F in 20 mM Tris-HCl (pH 7.5 at 25 centigrade), 50 mM NaCl, and 5 mM EDTA solution
Bio-activity	40,000 units/min/mg
Molecular Mass	35 kDa
Purity	> 99.0 % rPNGase F peak area analyzed by HPLC at 280 nm.
Storage	Store at 4 centigrade.
Concentration	10000 U/mL (1U=65 NEB units)
CAS No.	83534-39-8
Shelf life	24 months at 4 centigrade
Stability	rPNGase F is maximally active in the pH range of 6-10, best at pH 8.6.

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Usage Notes	In-Solution Protein Digestion Protocol: 1)Denaturation enzyme digestion: 1. For maximum activity, resuspend the user's samples (eg. glycoprotein) with 50 mM ammonium bicarbonate buffer (pH 7.8). 2. Dissolve 20 µg samples in 50 mM ammonium bicarbonate (pH 7.8) to a final volume of 18 µL. 3. Add 2 µL rPNGase F to the solution in step 2 Mix well. 2)Native enzyme digestion: 1. For maximum activity, resuspend the user's samples (eg. glycoprotein) with 50 mM ammonium bicarbonate buffer (pH 7.8). 2. Dissolve 50 µg samples in 50 mM ammonium bicarbonate (pH 7.8) to a final volume of 50 µL. 3. Add 1 µL rPNGase F to the solution in step 2 Mix well and incubate at 37 centigrade for 1-2 hours.
Unit Definition	One unit catalyzes the release of N-linked oligosaccharides from 1 nanomole of denatured Ribonuclease B in 1 min at 37 centigrade at pH 7.5 monitored by LC-MS.
LC-MS/MS Analysis	Denaturated RNase B was digested with rPNGase F at 37 centigrade for 60 minutes, and LCMS analysis showed that RNase B removed more than 98% of N-glycans.

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