Recombinant Oryza sativa (rice) PNGase A

Cat. No. PNGase A-017O **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PNGase A is a recombinant amidase, which cleaves between the innermost GlcNAc and asparagine residues of high mannose, hybrid, and short complex oligosaccharides such as those found in plant and insect cells from N-linked glycoproteins and glycopeptides. PNGase A differs from PNGase F in that it cleaves N-linked glycans with or without α(1,3)-linked core fucose residues.
Species	Oryza sativa
Source	Pichia pastoris
Description	PNGase A cleaves between the innermost GlcNAc and asparagine residues of high mannose, hybrid, and short complex oligosaccharides such as those found in plant and insect cells from N-linked glycoproteins and glycopeptides. PNGase A differs from PNGase F in that it cleaves N-linked glycans with or without α(1,3)-linked core fucose residues. Cleaves N-glycans from plant and insect-derived glycoproteins and glycopeptides Activity is not inhibited by an α1-3 Fucose residue on the chitobiose core Recombinant enzyme with no detectable exoglycosidase or other endoglycosidase contaminating activities Glycerol-free for optimal performance in HPLC and mass spectrometry analysis ≥95% purity, as determined by SDS-PAGE and intact ESI-MS Optimal activity and stability for up to 24 months
Molecular Mass	63.8 kDa
Unit Definition	One unit is defined as the amount of enzyme required to remove > 95% of the

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	carbohydrate from 1 µg of denatured recombinant Avidin produced in Maize in 1 hour at 37 centigrade in a total reaction volume of 10 µL.
Unit Assay Conditions	1 µg of recombinant Avidin is denatured with 1X Glycoprotein Denaturing Buffer at 100 centigrade for 10 minutes. After the addition of NP-40 and GlycoBuffer 3, two-fold dilutions of PNGase A are added and the reaction mix is incubated for 1 hour at 37 centigrade. Separation of reaction products are visualized by SDS-PAGE.
Heat Inactivation	65 centigrade for 10 minutes
Storage Buffer	20 mM Tris-HCl, 50 mM NaCl, 5 mM EDTA, pH 7.5 at 25 centigrade

GENE INFORMATION

Synonyms	PNGase A

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