Active Recombinant Elizabethkingia miricola Endoglycosidase F1

Cat. No. Endoglycosidase F1-002E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Elizabethkingia miricola Endoglycosidase F1 expressed in E. Coli
Species	Elizabethkingia miricola
Source	E. coli
Description	Endo F1 cleaves high mannose and some hybrid type N-glycans from peptides and proteins. Endo F1 cleaves Asparagine-linked high mannose and some hybrid oligosaccharides. Core fucosylation reduces the activity by 50 fold. Endoglycosidase F1 will hydrolyze sulfate containing high-mannose chains. It cleaves between the two N-acetylglucosamine residues in the diacetylchitobiose core of the oligosaccharide, generating a truncated sugar molecule with one N-acetylglucosamine residue remaining on the asparagine. In contrast, PNGase F removes the oligosaccharide intact.
Form	Sterile-filtered solution
EC	3.2.1.96
Specificity	Cleaves all asparagine-linked high mannose and some hybrid oligosaccharides. Ludger Endo F1 cleaves Asparagine-linked high mannose or hybrid oligosaccharides. It cleaves between the two N-acetylglucosamine residues in the diacetylchitobiose core of the oligosaccharide, generating a truncated sugar molecule with one N-acetylglucosamine residue remaining on the asparagine. In contrast, PNGase F

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	removes the oligosaccharide intact.
Contents	60 µL aliquot of enzyme (1 U) in 20 mM Tris-HCl, pH 7.5 5× Reaction Buffer-250 mM sodium phosphate, pH 5.5
Bio-activity	Activity: ≥ 17 U/mL Specific Activity: ≥ 16 U/mg Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micromole of denatured Ribonuclease B (RNase B) in 1 minute at 37 centigrade, pH 5.5. Cleavage is monitored by SDS-PAGE (cleaved RNase B migrates faster).
Molecular Mass	32 kDa
Suggested usage	1. Add up to 200 µg of glycoprotein to an Eppendorf tube. 2. Adjust to 38 µL final volume with de-ionized water. Add 10 µL 5× Reaction Buffer 5. 3. Add 2.0 µL of Endo F1 to the reaction. Incubate 1 hour or more at 37 centigrade. 4. Monitor cleavage by SDS-PAGE.
Purity	Ludger Endo F1 is tested for contaminating protease as follows: 10 µg of denatured BSA is incubated at 37 centigrade for 24 hours with 2 µL of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation. The production host strain has been extensively tested and does not produce any detectable glycosidases.
Stability	Several days exposure to ambient temperatures will not reduce activity. Stable at least 12 months when stored properly.
Storage	Store enzyme at 4 centigrade. Do not freeze.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 20 mM Tris-HCl, pH 7.5

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GENE INFORMATION

Synonyms	Endo F1; Endoglycosidase F1; endo-β-N-acetylglucosaminidase F

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