

Active Recombinant Elizabethkingia miricola Endoglycosidase F3

Cat. No. Endoglycosidase F3-007E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Elizabethkingia miricola Endoglycosidase F3 expressed in E. Coli
Species	Elizabethkingia miricola
Source	E. coli
Description	Selective release of triantennary and $\alpha(1-6)$ fucosylated biantennary N-glycans from peptides and protein. Endo F3 cleaves free or Asparagine-linked triantennary or $\alpha(1-6)$ fucosylated biantennary oligosaccharides, as well as triamnosyl chitobiose core structures. Nonfucosylated biantennary glycans will also be cleaved, but at a 40x reduced rate. 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. $\alpha(1-3)$ fucosylation will inhibit enzymatic activity. There is no activity on oligomannose and hybrid molecules.
Form	Sterile-filtered solution
EC	3.2.1.96
Specificity	Cleaves all asparagine-linked triantennary or $\alpha(1-6)$ fucosylated biantennary oligosaccharides, as well as triamnosyl chitobiose core structures. $\alpha(1-3)$ fucosylation will inhibit enzymatic activity. Nonfucosylated biantennary glycans will

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	also be cleaved, but at a 40× reduced rate. (Note: The recombinant version is not glycosylated, which may result in properties differing from the native protein.)
Contents	60 µL aliquot of enzyme (0.3 U) in 20 mM Tris-HCl, pH 7.5 5× Reaction Buffer-250 mM sodium acetate, pH 4.5
Bio-activity	Activity: > 5 U/mL Specific Activity: > 25 U/mg Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micromole of porcine fibrinogen in 1 minute at 37 centigrade, pH 4.5. Cleavage is monitored by SDS-PAGE (cleaved fibrinogen migrates faster).
Molecular Mass	30 kDa
Suggested usage	1. Add up to 200 µg of glycoprotein to an Eppendorf tube. Adjust to 38 µL final volume with de-ionized water. 2. Add 10 µL 5× Reaction Buffer 4.5 3. Add 2.0 µL of Endo F3. Incubate 1 hour at 37 centigrade.
Purity	Endoglycosidase F3 is tested for contaminating protease as follows; 10 µg of denatured BSA is incubated for 24 hours at 37 centigrade 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	Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.
Storage	Store enzyme at 4 centigrade.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 20 mM Tris-HCl, pH 7.5

GENE INFORMATION

Synonyms	Endo F3; Endoglycosidase F3; endo- β -N-acetylglucosaminidase F
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