Active Recombinant Elizabethkingia miricola Endoglycosidase F2

Cat. No. Endoglycosidase F2-004E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant gene from Elizabethkingia miricola expressed in E. coli
Species	Elizabethkingia miricola
Source	E. coli
Description	Endo F2 cleaves N-linked (asparagine-linked) biantennary oligosaccharides from glycoproteins. It also will cleave high mannose glycans but at a 40× reduced rate. It cleaves between the two N-acetylglucosamine residues in the diacetyl chitobiose 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. Endoglycosidase F2 is less sensitive to protein conformation than PNGase F and is, therefore, more suitable for deglycosylation of native proteins. However, for optimal results, denaturation of the glycoprotein is recommended.
Form	Sterile-filtered solution
EC	3.2.1.96
Specificity	Cleaves all asparagine-linked biantennary oligosaccharides and high mannose (though at a 40× reduced rate) N-glycans from peptides and proteins
Contents	60 µL aliquot of enzyme (0.3 U) in 10 mM sodium acetate 25 mM NaCl, pH 4.5 5×

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Reaction Buffer-250 mM sodium acetate, pH 4.5
Bio-activity	Activity: > 5 U/mL Specific Activity: > 20 U/mg Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micromole of denatured porcine fibrinogen in 1 minute at 37 centigrade, pH 5.5. Cleavage is monitored by SDS-PAGE (cleaved finbrinogen migrates faster).
Molecular Mass	32 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 F2. Incubate 1 hour at 37 centigrade.
Purity	Endoglycosidase F2 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. Do not freeze.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 10 mM sodium acetate, 25 mM NaCl, pH 4.5

GENE INFORMATION

Synonyms	Endo F2; Endoglycosidase F2; endo-β-N-acetylglucosaminidase F2

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA