**Endo F2 (Endoglycosidase F2)**

Endo-beta-N-acetylglucosaminidase F2

**Source**
recombinant gene from *Elizabethkingia miricola* in *E. Coli*

**Catalog Number**
- E-EF02 60 µl
- E-EF02-20 20 µl
- E-EF02-200 200 µl

**EC** 3.2.1.96

**Recommended Reagents**
included with E-EF02:
- 1 vial: 5x Reaction Buffer - 400 µl
  - 250 mM sodium acetate, pH 4.5

**Activity** ≥ 5 U/ml

**Specific Activity** ≥ 20 U/mg

**Molecular Weight** 32 kD

**Specific Activity**
Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micro-mole of denatured porcine fibrinogen in 1 minute at 37°C, pH 5.5. Cleavage is monitored by SDS-PAGE (cleaved fibrinogen migrates faster).

**Formulation**
The enzyme is provided as a sterile-filtered solution in 10 mM sodium acetate, 25mM NaCl, pH 4.5

**Storage**
Store enzyme at 4°C. Do not freeze.

**Specificity**
QA-Bio™ Endo F2 cleaves Asparagine-linked biantennary and high mannose glycans (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.

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.

**Quality & Purity**
QA-Bio Endo F2 is tested for contaminating protease as follows: 10 µg of denatured BSA is incubated at 37°C 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.
Directions for use
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 5x Reaction Buffer 4.5

3. Add 2.0 µl of Endo F2 to the reaction. Incubate 1 hour at 37°C.

Monitor cleavage by SDS-PAGE.

References:


Warranties and Liabilities
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This product is intended for in vitro research only.