



Endo F3 (Endoglycosidase F3)

Endo-beta-N-acetylglucosaminidase F3

Source recombinant *Chryseobacterium meningosepticum* in *E. Coli*

Catalog Number E-EF03

Certification of Analysis Lot Number 902.1A

EC 3.2.1.96

Contents

- 1 vial: Endo F3- 60 µl (0.3 U)
20 mM Tris-HCl pH 7.5
- 1 vial: 5x Reaction Buffer - 400 µl
250 mM sodium acetate, pH4.5

Specific Activity 25 U/mg

Activity 5 U/ml

Molecular Weight 30 kD

Specific Activity

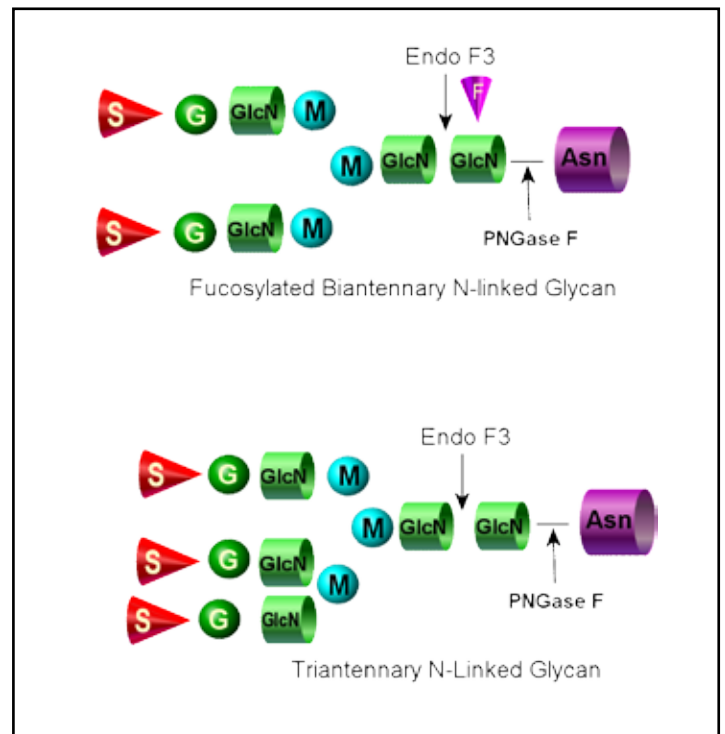
Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micro-mole of porcine fibrinogen in 1 minute at 37°C, pH 4.5. Cleavage is monitored by SDS-PAGE.

Formulation

The enzyme is provided as a sterile-filtered solution in 20 mM Tris-HCl, pH 7.5

Storage

Store enzyme at 4°C. Do not freeze.



Specificity

QA-Bio™ Endo F3 cleaves free or Asparagine-linked triantennary or fucosylated biantennary oligosaccharides, as well as triantennosyl chitobiose core structures. 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.

The recombinant version is not glycosylated, which may result in properties differing from the native protein.

Quality & Purity

QA-Bio Endo F3 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 absence of exoglycosidase contaminants is confirmed by extended incubations with the corresponding pNP-glycosides.

Stability

Several days exposure to ambient temperatures will not reduce activity. Stable at least 12 months when stored properly.

E-EF03 Endo F3
Specifications - Protocol

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
4. Add 2.0 µl of Endo F3 to the reaction. Incubate 3 hours at 37°C.

Monitor cleavage by SDS-PAGE.

References:

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Warranties and liabilities

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This product is intended for *in vitro* research only.

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