

Endo F3 Protocol for Deglycosylating Glycoproteins

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Abstract

Endo F3 cleaves free or Asparagine-linked triantennary or biantennary oligosaccharides, as well as triantennary 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.

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Materials

 Endo F3 [E-EF03](#) by [QA-Bio Inc](#)

Protocol

Step 1.

Add up to 200 µg of glycoprotein to an Eppendorf tube. Adjust to 38 µl final volume with de-ionized water.

Step 2.

Add 10 µl 5x Reaction Buffer 4.5

Step 3.

Add 2.0 µl of Endo F3 to the reaction. Incubate 3 hours at 37°C. Monitor cleavage by SDS-PAGE.