

Endo F1 Protocol for Deglycosylating Glycoproteins

Mike Gibson

Abstract

Endo F1 cleaves Asparagine-linked high mannose or hybrid oligosaccharides. 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.

Citation: Mike Gibson Endo F1 Protocol for Deglycosylating Glycoproteins. **protocols.io**
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Materials

 Endo F1 [E-EF01](#) 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 5.5

Step 3.

Add 2.0 µl of Endo F1 to the reaction

Step 4.

Incubate 3 hours at 37°C.

Step 5.

Monitor cleavage by SDS-PAGE.