

Active Recombinant Streptomyces plicatus Endoglycosidase H

Cat. No. Endoglycosidase H-008S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Endoglycosidase H from Streptomyces plicatus expressed in E.Coli
Species	Streptomyces plicatus
Source	E. coli
Description	Endo H cleaves Asparagine-linked hybrid or high mannose oligosaccharides, but not complex oligosaccharides. 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. Detergent and heat denaturation may increase the rate of cleavage for some glycoproteins.
Form	Sterile-filtered solution
EC	3.2.1.96
Specificity	Endo H cleaves Asparagine-linked hybrid or high mannose oligosaccharides, but not complex 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. Detergent and heat denaturation may increase the rate of cleavage for some glycoproteins.

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Contents	60 µL aliquot of enzyme (300 mU) in 20 mM Tris-HCl, 25 mM NaCl, 1 mM EDTA (pH 7.5). 200 µL 5× Reaction Buffer 5.5 (250 mM sodium phosphate, pH 5.5) Denaturation Solution-2% SDS, 1 M Beta-mercaptoethanol
Bio-activity	Specific Activity: > 40 U/mg Activity: > 5 U/mL
Molecular Mass	29 kDa
Suggested usage	1. Add up to 200 µg of glycoprotein to Eppendorf tube. Adjust to 37.5 µL final volume with deionized water. 2. Add 10 µL 5× Endo H Buffer and 2.5 µL of Denaturation Solution (SDS/-ME). Heat at 100 centigrade for 5 minutes. 3. Cool, and then add 2.0 µL of Endo H to the reaction. Incubate 3 hours at 37 centigrade.
Unit Definition	One unit of Endo H activity is defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 µmole of denatured Ribonuclease B. Cleavage is monitored by SDS-PAGE (cleaved Ribonuclease B migrates faster).
Purity	Endoglycosidase H 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.
Applications	Releases asparagine-linked hybrid or high mannose oligo saccharides, but not complex oligosaccharides. Endo H 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. Detergent and heat denaturation may increase the rate of cleavage for some glycoproteins.

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.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 20 mM Tris-HCl, 25 mM NaCl, 1 mM EDTA (pH 7.5).

GENE INFORMATION

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