

Endoglycosidase H (Endo H)

Catalog Number	LDG0002RG
Package	10,000 U / 50,000 U / Customized package

For full product information, images and publications, please visit [our website](#).



Overview

Description

Protein glycosylation is a complex posttranslational modification that manipulates biological activity such as protein folding, intracellular trafficking, stability, and half-life, affecting protein function. Endoglycosidase H is a glycosidase that cleaves asparagine-linked oligomannose and hybrid, but not glycan complex, from N-linked glycoproteins. It hydrolyses the bond connecting the two N-acetylglucosamine residues comprising the chitobiose core, leaving an N-acetylglucosamine residue on the asparagine.

Product Note

- After thawing, the buffers may crystallize, which is a normal occurrence. Warm crystallized buffer until the salt crystals return to solution. Ensure that your components return to RT before use in the assay.
- Please fine-tune the input sample volume to find the optimal condition for your assay.
- Once optimize for the cleavage condition, the cleavage reactions can be scaled up to cleave a large amount of the target fusion protein.

Components

Package	Items	Quantity
10,000 U	Endoglycosidase H (Endo H) (500 U/μL)	1 vial (10,000 U)
	10× Glycoprotein Denaturing Buffer	1 vial (1 mL)
	10× Reaction buffer	1 vial (1 mL)
	Endoglycosidase H (Endo H) (500 U/μL)	1 vial (50,000 U)

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50,000 U

 10× Glycoprotein Denaturing
Buffer

1 vial (1 mL)

10× Reaction buffer

1 vial (1 mL)

Specifications

Expression System

Escherichia coli

Concentration

500 U/μL

Storage Buffer

Endoglycosidase H is supplied in 20 mM Tris-HCl, 50 mM NaCl and 5 mM EDTA, pH 7.5

Purity

>95% as determined by SDS-PAGE analysis.

Unit Definition

One unit of Endoglycosidase H cleaves > 95% of the carbohydrate from 10 μg of denatured RNase B in a total reaction volume of 10 μL at 37°C for 1 h.

Endotoxin Level

<1 EU per 1 μg of the protein by the LAL method.

Form

Liquid

Instruction

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

- -20°C for -80°C long-term storage under sterile conditions.

Avoid repeated free-thaw cycles.


Image

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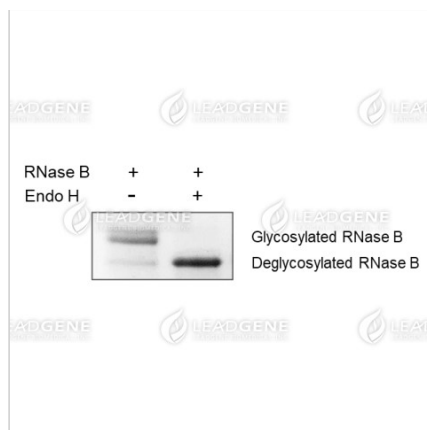
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	LDG004R-GMP PNGase F	LDG002R-GMP Endo H
High Mannose Structure	Cut	Cut
Hybrid Structure	Cut	Cut
Complex Glycan Structure	Cut	Uncut
	Unglycosylated Protein	Monoglycosylated Protein

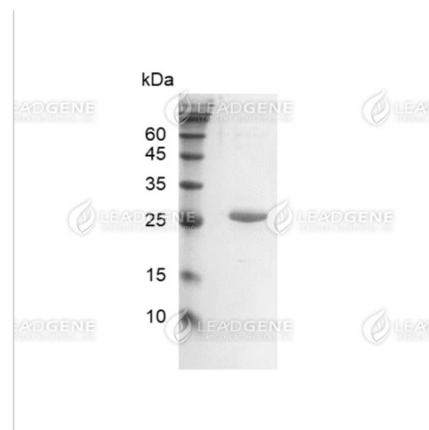
High Mannose
Hybrid
Complex Glycan

Legend:
 ■ N-Acetylglucosamine
 ● Mannose
 ● Galactose
 ● Fucose
 ● N-Acetylneuraminic acid

Endo H cleaves high mannose and hybrid- type glycans.



The standard assay was performed by incubating 1 unit of Endo H and 10 µg of RNase B under the above conditions. SDS-PAGE analysis of RNase B digested with Endoglycosidase H.



SDS-PAGE analysis of recombinant Endoglycosidase H

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