LeadGMP® Endoglycosidase H (Endo H)

Catalog Number	LDG002R-GMP
Package	50,000 U / Customized package

For full product information, images and publications, please visit our website.

Overview

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

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

Specifications

Species of Origin
Streptomyces plicatus

Expression System
Escherichia coli

Concentration
500 U/µL

Storage Buffer
20 mM Tris-HCl, 50 mM NaCl, 5 mM EDTA, pH 7.5

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Purity

>95% as determined by SDS-PAGE analysis.

Activity

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

<0.05 EU per 1 µg of the protein by the LAL method.

Mycoplasma

Not detected

Form

Liquid

Background

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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.

Instruction

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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 long-term storage under sterile conditions. Avoid repeated free-thaw cycles.

Manufacturing Specifications

LeadGMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP certified facility. The processes include:

- Animal-free reagent and laboratory
- Manufactured and tested under GMP guideline
- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life

Image

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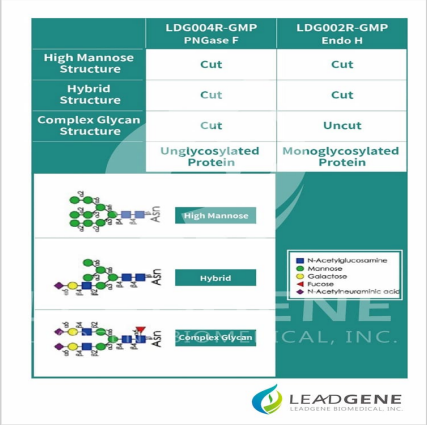
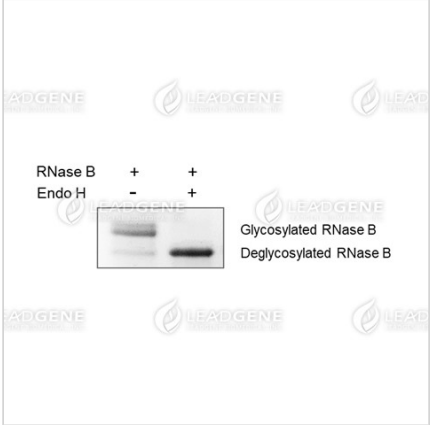
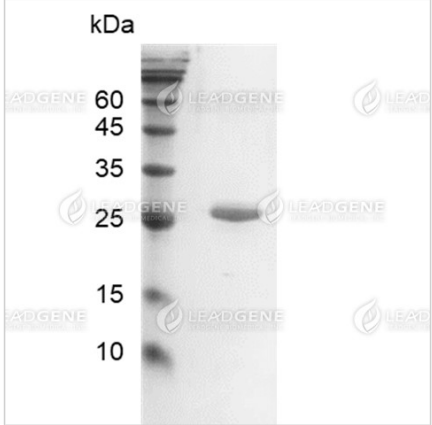


Endo H cleaves high mannose and hybrid-type glycans.



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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