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LEADGENE BIOMEDICAL, INC.

Product Information & Manual

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LeadGMP® Endoglycosidase H (Endo H)

Cat no. LDG002R-GMP

Product Overview

Package component

Specification	Item	Amount
50,000 U	LeadGMP® Endoglycosidase H (Endo H)	1 vial (500 U/μL)
	10X Glycoprotein Denaturing Buffer	1 vial (1 mL)
	10X Reaction buffer	1 vial (1 mL)

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.

Source

Escherichia coli

(Animal-free reagent and laboratory Manufactured and tested under GMP guideline)

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.

Storage buffer

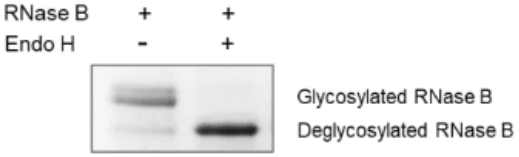
The enzyme is supplied in 20 mM Tris-HCl, 50 mM NaCl, 5 mM EDTA, pH 7.5

Storage and Stability

This product is stable after storage at -20°C for long-term storage under sterile conditions. Avoid repeated free-thaw cycles.

Procedure

1. Add 1–20 μg of the target glycoprotein, 1 μL of 10X Glycoprotein Denaturing Buffer, and an appropriate volume of H_2O to a final 10 μL total reaction volume.
2. Heat the sample for protein denature at 100°C for 10 minutes.
3. Add 2 μL of 10X Reaction Buffer, 1–5 μL of Endo H (500–2500 units), and an appropriate volume of H_2O to a final 20 μL total reaction volume.
4. Incubate reaction mixture at 37°C for 1 hour.
5. Determine the glycosylated level of the samples by SDS-PAGE analysis.



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.

Important notes

1. Please fine-tune the input sample volume to find the optimal condition for your assay.
2. Once optimize for the cleavage condition, the cleavage reactions can be scaled up to cleave a large amount of the target fusion protein.

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Disclaimer

This product is for research use only and is not intended for diagnostic use.

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