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LEADGENE BIOMEDICAL, INC.

Product Information & Manual

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Alpha-2,3-sialidase

Cat no. LDG0024RG

Product Overview

Description

Alpha-2,3-sialidase is a neuraminidase used in biochemistry and molecular biology to release terminal α-2,3-linked *N*-acetylneuraminic acid (Neu5Ac) from oligosaccharides, complex carbohydrates, and glycoproteins.

Source

Escherichia coli

Activity

One unit is defined as the enzyme required to cleave > 95% of the terminal α-Neu5Ac from 1 nanomole Neu5Ac-Gal-GalNAc of glycoprotein in 1 hour at 37°C in 40 µL reaction buffer (50 mM Tris-HCl, 100 mM NaCl, pH 7.5).

Storage buffer

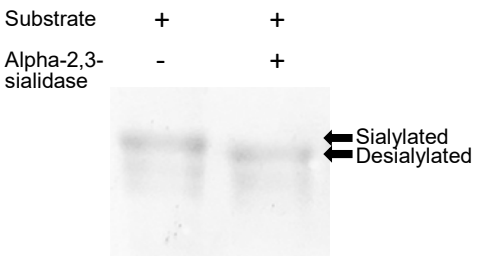
The enzyme is supplied in 20 mM Tris-HCl, 50 mM NaCl, 1 mM EDTA, pH 7.5

Storage and Stability

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

Procedure

1. Add 4 µL of 10X reaction buffer (500 mM Tris-HCl, 1 M NaCl, pH 7.5) and 1 nanomole of glycoprotein (e.g., Fetuin) into a microtube, and fill up with double distilled water to 40 µL.
2. Incubate at 37°C for 1 hour
3. Analyze by SDS-PAGE to determine the extent of desialylation on the substrate.



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.

Disclaimer

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

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