LEADGENE
LEADGENE BIOMEDICAL, INC.

Datasheet

Alpha-2,3-Sialidase

Catalog Number	LDG0024RG
Package	5000 U / Customized package

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

Overview

Description

Alpha-2,3-sialidase is an enzyme that specifically cleaves sialic acid residues linked to glycoproteins or glycolipids via an α-2,3 linkage. This glycosidase plays a crucial role in the modification and degradation of sialic acids, which are important for various biological processes, including cell signaling, immune response, and pathogen recognition. Alpha-2,3-sialidase activity is essential in studying viral infections, such as influenza, where the removal of sialic acid residues can affect viral binding and entry into host cells.

Specifications

Expression system

Escherichia coli

Concentration

50 U/μL

Buffer

20 mM Tris-HCl, 50 mM NaCl, 1 mM EDTA, pH 7.5

Purity

>95% as determined by SDS-PAGE analysis.

Unit Definition

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

Endotoxin level

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

Form

Liquid

Instruction

Tainan Headquarter

+886-6-2536677

bd@leadgene.com.tw

Innovation & Research Center

+886-2-27065528

CLD Center

+886-6-2536677

Shipping

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

Stability & Storage

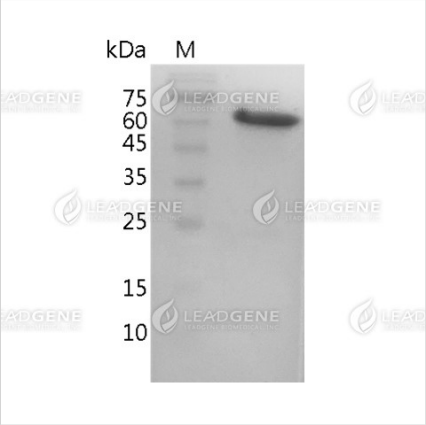
This product is stable after storage at:

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

Avoid repeated free-thaw cycles.

Image

The standard assay was performed by incubating 1 unit of alpha-2,3-sialidase and 1 nanomole of Fetuin under the above conditions.
SDS-PAGE analysis of Fetuin digested with alpha-2,3-sialidase.



SDS-PAGE analysis of recombinant alpha-2,3-sialidase.

Disclaimer : For Research Use or Further Manufacturing Only.

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