H5N1 Neuraminidase (Active) recombinant protein

Catalog Number: 501944

General Information

Protein Construction

A DNA sequence encoding the Influenza A virus (A/Anhui/1/2005 (H5N1)) neuraminidase (ABU94738.1) (Met 1-Lys 449) was expressed, the cell lysates are collected, and bio-activity was tested. There is an amino acid change from Histidine to Tyrosine (H274Y mutation) in NA / Neuraminidase.

Organism

H5N1

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid.
The specific activity is > 60 U
The specific activity is > 300 U
One unit is defined as the amount of enzyme required to cleave 1 nmole of 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid per minute at pH 7.5 at 37℃.

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Molecular Mass

The recombinant influenza A H5N1 Neuraminidase comprises 450 amino acids and has a predicted molecular mass of 49.2 kDa.

Formulation

Lyophilized from sterile PBS, 0.6% Triton X-100, 7% Trehalose, 6% Mannitol, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that 1 ml sterile water be added to the vial to prepare a stock solution.