# H1N1 Neuraminidase (Active) recombinant protein

Catalog Number: 503931



#### **General Information**

## **Protein Construction**

A DNA sequence encoding the Influenza A virus (A/California/04/2009 (H1N1)) neuraminidase (ACP41107.1) (His 36-Lys 469) was expressed, the cell lysates are collected, and bio-activity was tested.

## Organism

H1N1

## **Expression Host**

**Human Cells** 

## **QC Testing**

## Activity

Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)- $\alpha$ -D-N-acetylneuraminic acid. The specific activity is > 100 U The specific activity is > 200 U One unit is defined as the amount of enzyme required to cleave 1 nmole of 2'-(4-Methylumbelliferyl)- $\alpha$ -D-N-acetylneuraminic acid per minute at pH 7.5 at 37°C.

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by

the LAL method

## **Stability**

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

#### **Molecular Mass**

The recombinant influenza A H1N1 Neuraminidase comprises 450 amino acids and has a predicted molecular mass of 50 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°C to -80°C. 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.