

# H1N1 Neuraminidase (Active) recombinant protein



Catalog Number: 501549

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## General Information

### Protein Construction

A DNA sequence encoding the Influenza A virus (A/California/04/2009 (H1N1)) neuraminidase (ACP41107.1) (Met 1-Lys 469) was expressed, the cell lysates are collected, and bio-activity was tested. There is an amino acid change from Asparagine to Serine (N295S mutation) in NA / Neuraminidase.

### 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 > 800 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 469 amino acids and has a predicted molecular mass of 52 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.