

## Active Recombinant H1N1(A/California/04/2009) NA Protein(N295S mutation)

**Cat. No.** NA-8513H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant H1N1(A/California/04/2009) NA Protein(N295S mutation)(ACP41107.1) (Met 1-Lys 469) was expressed in HEK293, 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.                                          |
| <b>Species</b>          | H1N1                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-469 aa, N295S mutation                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from sterile PBS, 0.6% Triton X-100, 7% Trehalose, 6% Mannitol, pH 7.4.                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | 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. |
| <b>Molecular Mass</b>   | The recombinant influenza A H1N1 Neuraminidase comprises 469 amino acids and has a predicted molecular mass of 52 kDa.                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                   |

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**Storage**

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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