

## Active Recombinant Influenza A H1N1(A/California/04/2009 (H1N1) NA protein(Met1-Lys469(N295S mutation))

**Cat. No.** NA-3298V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Influenza A H1N1(A/California/04/2009 (H1N1) NA protein(ACP41107.1)(Met1-Lys469(N295S mutation)) was expressed in HEK293.                                                                                                                                                                                             |
| <b>Species</b>          | Influenza A H1N1(A/California/04/2009 (H1N1)                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Met1-Lys469(N295S mutation)                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from sterile PBS, 0.6% Triton X-100, 7% Trehalose, 6% Mannitol, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.   |
| <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                                                                                                                                                                                                                                                               |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C<br>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. |
| <b>Reconstitution</b> | 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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