

# Recombinant Influenza [A/Thailand/1(KAN-1)/2004(H5N1)] Neuraminidase (NA) protein, His-tagged

Cat. No. NA-346I Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Influenza [A/Thailand/1(KAN-1)/2004(H5N1)] Neuraminidase (NA) protein (His36-Lys449), fused to His tag at N-terminus, was expressed in human 293 cells (HEK293).   |
| <b>Species</b>          | Influenza [A/Thailand/1(KAN-1)/2004(H5N1)]   |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | 414  |
| <b>Description</b>      | Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. Hemagglutinin binds to the sialic acid-containing receptors on the surface of host cells during initial infection and at the end of an infectious cycle. Neuraminidase, on the other hand, cleaves the HA-sialic acid bondage from the newly formed virions and the host cell receptors during budding. Neuraminidase thus is described as a receptor-destroying enzyme which facilitates virus release and efficient spread of the progeny virus from cell to cell. |
| <b>Form</b>             | Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.   |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 46.1 kDa. The protein migrates as 48 kDa under reducing (R) condition (SDS-PAGE).   |
| <b>Endotoxin</b>        | Less than 1.0 EU per ug by the LAL method.   |

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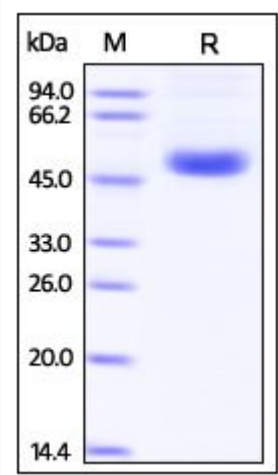
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|                       |  |
|-----------------------|--|
| <b>Purity</b>         | >92% as determined by SDS-PAGE.  |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <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.  |

## GENE INFORMATION

|                        |        |
|------------------------|--------|
| <b>Official Symbol</b> | NA     |
| <b>UniProt ID</b>      | H8PF47 |

**SDS-PAGE of NA-346I**



The SDS-PAGE gel image shows two lanes: M (molecular weight markers) and R (sample). The molecular weight markers in lane M are labeled on the left as 94.0, 66.2, 45.0, 33.0, 26.0, 20.0, and 14.4 kDa. Lane R shows a single, prominent blue band at approximately 45.0 kDa, indicating the purity of the protein sample.



Influenza Neuraminidase (NA), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.

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