

Active Recombinant H5N1 NA, His-tagged

Cat. No. NA-1900 Lot. No. (See product label)

SPECIFICATION

Product Overview	Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA) (Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA)) His 36 - Lys 449 (Accession # H8PF47) was produced in human 293 cells (HEK293).
Species	H5N1
Source	HEK293
ProteinLength	36-449 a.a.
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its ability to cleave a fluorogenic substrate, 2''-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid. One unit is defined as the amount of enzyme required to c leave 1 nmole of 2''-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid per minute at

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Molecular Mass	Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA) is fused with a polyhistidine tag at the N-terminus, and has a calculated MW of 46.1 kDa. The predicted N-terminus is His 36. DTT-reduced Protein migrates as 48 kDa in SDS-PAGE.
Endotoxin	Less than 1.0 EU per µg of the Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA) by the LAL method.
Purity	>92% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

GENE INFORMATION

Gene Name	NA neuraminidase [Influenza A virus (A/goose/Guangdong/1/1996(H5N1))]
Official Symbol	NA
Synonyms	NA, Neuraminidase, Influenza A, H5N1
Gene ID	3654619
mRNA Refseq	NC_007361.1
Protein Refseq	YP_308668.1

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