Human CellExp™ Influenza A virus / Neuraminidase (NA)

CATALOG #: 7508-20 20 µg

ALTERNATE NAMES: NA, Neuraminidase

SOURCE: HEK 293 cells (His 36- Lys 449)

PURITY: ≥ 92% by SDS-PAGE gel

MOL. WEIGHT: 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 LEVEL: < 1.0 EU per µg of the Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA) by the LAL method.

FORM: Lyophilized

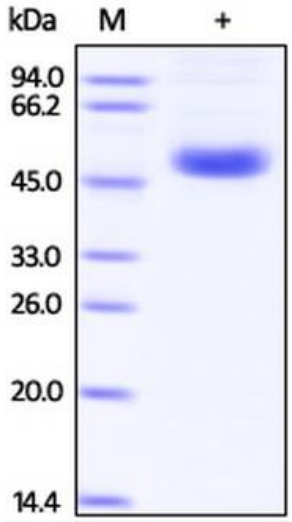
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C or -70°C for up to 3 months. Avoid repeated freezing and thawing cycles. No activity loss was observed after storage in lyophilized state for 1 year (4ºC) and after reconstitution under sterile conditions for 3 months (-70ºC).

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

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.

BIOLOGICAL 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 cleave 1 nmole of 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid per minute at pH 7.5 at 37°C



Human recombinant Influenza A virus / Neuraminidase (NA). The purity of Influenza A virus (A/Thailand/1(KAN-1)/2004 (H5N1)) Neuraminidase (NA) was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

RELATED PRODUCTS:

- Neuraminidase Activity Fluorometric Assay Kit **(Cat # K732-100)**
- Sialic Acid (NANA) Colorimetric/Fluorometric Assay Kit **(Cat # K566-100)**

FOR RESEARCH USE ONLY! Not to be used in humans.