

# Recombinant Influenza A [A/swine/Shandong/1207/2016] Neuraminidase (NA), His-tagged

**Cat. No.** INF-447    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

This Influenza virus neuraminidase protein is derived from the NA sequence of the A/swine/Shandong/1207/2016, expressing aa 40-469, and fused with a polyhistidine tag at the C-terminus. The influenza virus neuraminidase protein is expressed in HEK293 cells. This virus is recommended by WHO for inclusion in the quadrivalent and trivalent vaccines for use in the 2020-2021 northern hemisphere influenza season.

### Tag

His

### Background

The influenza A viruses are negative-sense, single-stranded, segmented RNA viruses of the genus Alphainfluenzavirus, family Orthomyxoviridae. There are several subtypes, named according to the type of Haemagglutinin (H1-18) and Neuraminidase (N1-11) (Centers for Disease Control and Prevention, 2017). Humans are generally infected by influenza viruses of the subtypes H1, H2 or H3, and N1 or N2. Influenza A virus subtype H3N2 (A/H3N2) is a subtype of viruses that causes influenza (flu) and can infect birds and mammals. In birds, humans, and pigs, the virus has mutated into many strains and in years in which it is the predominant strain, there are usually more hospitalizations. The Hong Kong flu was the first known outbreak of the H3N2 strain, and the 1968- 1969 pandemic killed an estimated one million people worldwide (CDC, 2019). WHO convenes technical consultations in February and September each year to recommend viruses for inclusion in influenza vaccines for the northern and southern hemisphere influenza seasons, respectively. Flu vaccines are based on predicting which mutants of H1N1, H3N2, H1N2, and

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influenza B will proliferate in the next season. Separate vaccines are developed for the Northern and Southern Hemispheres in preparation for their annual epidemics. One influenza A (H1N1), one influenza A (H3N2), and one or two influenza B viruses (depending on the vaccine) are included in each season's influenza vaccines (CDC, 2019). WHO has identified four strains as the most likely to circulate in the 2020-2021 influenza season, including Influenza A [A/swine/Shandong/1207/2016] virus.

**Purity** greater than >95% purity by SDS-PAGE.

**Formulation** DPBS

**Notes** This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

**Type** Recombinant

**ClassID 1** Infectious Disease

## GENE INFORMATION

**Synonyms** Influenza A [A/swine/Shandong/1207/2016] Neuraminidase (NA)

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