

## Recombinant Influenza B [B/Phuket/3073/2013 (B/Yamagata lineage)-like virus] Neuraminidase (NA), His-tagged

Cat. No. INF-465 Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	<p>This Influenza virus neuraminidase protein is derived from the NA sequence of the B/Phuket/3073/2013 (B/Yamagata Lineage)-Like virus, expressing aa 44-466, and fused with a polyhistidine tag at the C-terminus. Influenza B (B/Phuket/3073/2013) NA protein is expressed in HEK293 cells. This virus is recommended by WHO for inclusion in the quadrivalent vaccines for use in the 2021-2022 northern hemisphere influenza season.</p>
<b>Tag</b>	His
<b>Background</b>	<p>Influenza B virus is the only species in the genus Betainfluenzavirus in the virus family Orthomyxoviridae. Influenza B virus is only known to infect humans and seals and this is believed to account for the lack of associated influenza pandemics in contrast with those caused by the morphologically similar influenza A virus, although both mutate by both antigenic drift and reassortment. However, it is thought that Influenza B virus could cause significant morbidity and mortality worldwide, particularly in adolescents and schoolchildren. 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 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</p>

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influenza vaccines (CDC, 2019). WHO has identified four strains as the most likely to circulate in the 2020-2021 influenza season, including Influenza B [B/Washington/02/2019] virus.

Globally, more influenza B viruses were detected than influenza A viruses during this period and influenza B viruses have predominated since November 2020. Of the influenza B viruses where lineage was determined, nearly all were the B/Victoria/2/87 lineage and the majority were reported from Afghanistan, China, Côte d'Ivoire, Ghana, Guinea, Haiti and Senegal. B/Yamagata/16/88 lineage viruses were reported in very low numbers by a few countries (Afghanistan, Sweden and the United States of America). WHO recommends that quadrivalent vaccines for use in the 2021-2022 northern hemisphere influenza season contain Influenza B/Phuket/3073/2013 (B/Yamagata Lineage)-Like virus (WHO, 2021).

Since December, 2019, coronavirus disease 2019 (COVID-19) has been an international public health emergency and co-infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and other respiratory viruses have been reported, complicating their diagnosis (Azekawa et al., 2020; Cuadrado-Payán et al., 2020; Wu et al., 2020).

**Purity** greater than >90% 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

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## GENE INFORMATION

### Synonyms

Influenza B [B/Phuket/3073/2013 (B/Yamagata lineage)-like virus] Neuraminidase (NA)

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