Recombinant Influenza A virus HA Protein, His-tagged

Cat. No. HA-09I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This Influenza virus hemagglutinin protein is derived from the HA sequence of the A/Wisconsin/588/2019 (H1N1)pdm09-like virus, expressing aa 1-528, and fused with a polyhistidine tag at the C-terminus. The influenza virus hemagglutinin protein is expressed in HEK293 cells. This virus is recommended by WHO for inclusion in the quadrivalent and trivalent vaccines for use in the 2022 southern hemisphere influenza season. The protein carries a C-terminal T4 foldon domain, and is predominantly presented as trimers.
Species	Influenza A virus (A/Wisconsin/588/2019 (H1N1))
Source	HEK293
ProteinLength	1-528 a.a.
Description	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. In April 2009, a new virus, referred to as A/(H1N1) pdm09, appeared in Mexico and California (US), and was responsible for the first pandemics of the 21st century (claiming several hundred lives). It spreads rapidly from person to person, and is not related to any circulating inter-pandemic viruses. It is a quadruple reassortant virus, consisting of two swine-origin viruses, one avian-origin virus and one human-origin

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	virus. It has a high fatality rate and shows higher incidence among younger people (Baldo et al., 2016). 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.
Form	Liquid
Molecular Mass	Expected Molecular Weight: 62 kDa Observed Molecular Weight: 80 kDa
Purity	> 90 % purity by SDS-PAGE.
Storage	Short Term Storage: -80 centigrade Long Term Storage: -80 centigrade Freezing: Can be frozen, but avoid multiple freeze-thaw cycles.
Concentration	0.82 mg/mL
Storage Buffer	DPBS
Shipping	Dry ice

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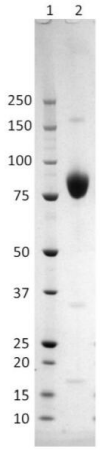
SDS-PAGE



Representative Coomassie-stained reducing SDS-PAGE showing purified HA protein.

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