Active Recombinant Influenza A H3N2 HA Protein, His tagged

Cat. No. HA-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant IAV H3N2 HA Protein (Gln17-Trp530) with a C-terminal 6-His tag was expressed in Human embryonic kidney cell.
Species	Influenza A virus (A/California/07/2009(H1N1))
Source	HEK293
ProteinLength	17-530 aa
Description	Influenza A (H3N2) has predominated recent influenza seasons, which caused several hospitalizations in many countries. H3N2 viruses have been in circulation since the onset of the 1968 pandemic. This strain was a reassortant, composed of the six gene segments from H2N2 viruses, but with the hemagglutinin and polymerase basic protein 1 segments derived from an avian source. The hemagglutinin protein of the Influenza A virus (strain A/Hong Kong/1/1968 H3N2) is composed of 550 residues, which includes the Hemagglutinin chains HA1 and HA2. Hemagglutinin (HA) and Neuraminidase (NA) and are the two predominant membrane glycoproteins found on the surface of influenza virus. HA is a lectin that binds sialic acid on host cell membrane. NA is a sialic acid hydrolase that specifically clips off terminally located sialic acid on host cell surface. The two proteins are essential for the infectious cycle of the influenza virus. Galectin-1 can bind to the envelope glycoproteins of influenza virus and inhibit viral infectivity, which may be attributed to the multivalent binding and cross-linking activities of galectin-1. Furthermore, galectin-1 may also be explored for targeting other viruses with glycoproteins on their surface.

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Molecular Mass	58 kDa
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Galectin-1 immobilized at 10.00 μg/mL, 100 μL/well, the concentration of Recombinant Influenza A Virus H3N2 Hemagglutinin His-tag that produces 50% of the optimal binding response is 0.35-3.50 μg/mL.
N-terminal Sequence Analysis	No results obtained: Gln17 predicted
Endotoxin	< 1 EU/μg by LAL
Purity	> 95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.
Reference	1. Wan, H. et al. (2019) Nat. Microbiol. 4:2216. 2. Krause, J.C. et al. (2012) J. Virol. 86:6334. 3. Kawaoka, Y. et al. (1989) J. Virol. 63:4603.

GENE INFORMATION

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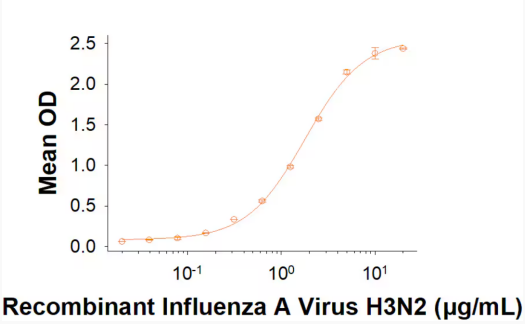
Gene Name	HA hemagglutinin [Influenza A virus (A/California/07/2009(H1N1))]
Official Symbol	HA
Synonyms	HA; hemagglutinin; HA1; HA2
Gene ID	23308115
Protein Refseq	YP_009118626
UniProt ID	Q91MA7
Binding Activity	

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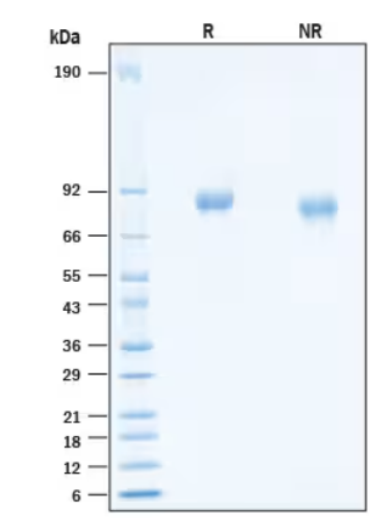
SDS-PAGE	

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