

Recombinant Influenza [A/Shanghai/2/2013(H7N9)] Hemagglutinin 1 (HA1) protein, His-tagged

Cat. No. HA1-353I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Influenza [A/Shanghai/2/2013(H7N9)] Hemagglutinin 1 (HA1) protein (Asp19-Gly338), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
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Species	Influenza [A/Shanghai/2/2013(H7N9)]
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Source	HEK293
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ProteinLength	320
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Description	Influenza, commonly known as "the flu", is an infectious disease of birds and mammals caused by RNA viruses of the family Orthomyxoviridae, the influenza viruses. The virus is divided into three main types (Influenzavirus A, Influenzavirus B, and Influenzavirus C), which are distinguished by differences in two major internal proteins (hemagglutinin (HA) and neuraminidase (NA), which are the most important targets for the immune system. The type A viruses are the most virulent human pathogens among the three influenza types and cause the most severe disease. The serotypes that have been confirmed in humans, ordered by the number of known human pandemic deaths, are: H1N1, H2N2, H3N2, H5N1, H7N7, H1N2, H9N2, H7N2, H7N3, H10N7, H7N9. H7N9 is a serotype of the species Influenzavirus A (avian influenza virus or bird flu virus). H7 normally circulates amongst avian populations with some variants known to occasionally infect humans. An H7N9 virus was first reported to have infected humans in 2013 in China.
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Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 37.5 kDa. The protein migrates as 43-50 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

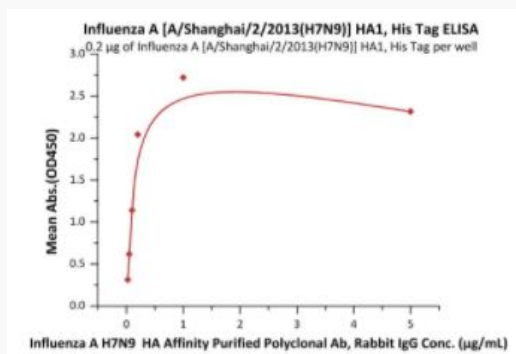
GENE INFORMATION

Gene Name	HA
Official Symbol	HA
Synonyms	TS66_s4gp1
Gene ID	23104227
Protein Refseq	YP_009118475.1

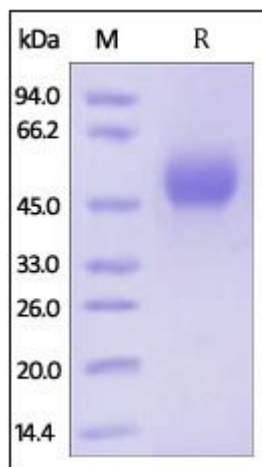
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UniProt ID
R4NN21
**Bioactivity-ELISA of
HA1-353I**


Immobilized Influenza A [A/Shanghai/2/2013(H7N9)] HA1, His Tag at 2 µg/mL (100 µL/well) can bind Influenza A H7N9 Hemagglutinin (HA) Affinity Purified Polyclonal Ab, Rabbit IgG with a linear range of 0.006-0.1 µg/mL (QC tested).

**SDS-PAGE of HA1-
353I**


Influenza, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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