

# Recombinant Influenza A [A/Hong Kong/483/97 (H5N1)] HA protein, His-tagged

**Cat. No.** HA-344V    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Influenza A [A/Hong Kong/483/97 (H5N1)] HA (Asp17-Gln531) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>              | Influenza                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>        | Asp17-Gln531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>          | Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. Hemagglutinin binds to the sialic acid-containing receptors on the surface of host cells during initial infection and at the end of an infectious cycle. Hemagglutinin also plays a major role in the determination of host range restriction and virulence. As a class I viral fusion protein, hemagglutinin is responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. |
| <b>Predicted N Terminal</b> | Asp17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 60.3 kDa. The protein migrates as 66-100 kDa under reducing (R) condition (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b> | 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

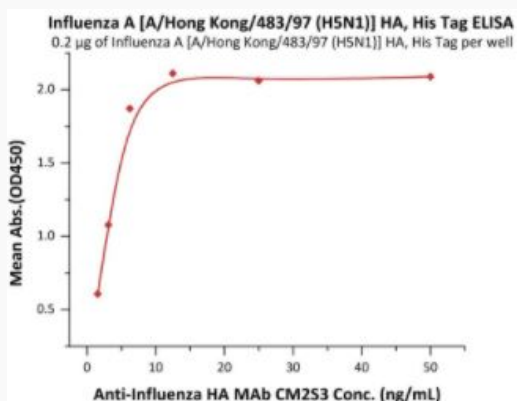
|                        |                 |
|------------------------|-----------------|
| <b>Gene Name</b>       | HA              |
| <b>Official Symbol</b> | HA              |
| <b>Synonyms</b>        | FLUAVH5N1_s4gp1 |
| <b>Gene ID</b>         | 3654620         |
| <b>Protein Refseq</b>  | YP_308669.1     |
| <b>UniProt ID</b>      | O92930          |

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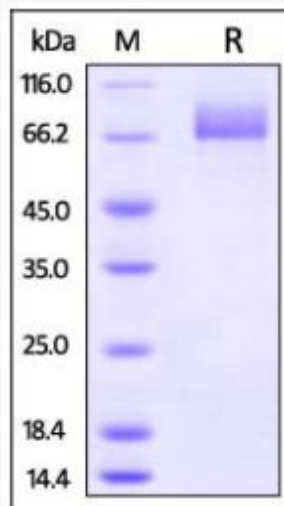
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### Bioactivity-ELISA of HA-344V



Immobilized Influenza A [A/Hong Kong/483/97 (H5N1)] HA, His Tag at 2 µg/mL (100 µL/well) can bind Anti-Influenza HA MAbs CM2S3 with a linear range of 0.4-6 ng/mL (QC tested).

### SDS-PAGE of HA- 344V



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%.