

# Recombinant Influenza A H3N2 Hemagglutinin/HA1 protein

Catalog Number: ATGP3799

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

18-344aa

### UniProt No.

E2E3B0

### NCBI Accession No.

ADB45177

### Alternative Names

Hemagglutinin, Influenza A virus (A/canine/Guangdong/1/2006(H3N2)), H, HA

## PRODUCT SPECIFICATION

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### Molecular Weight

36.9 kDa (336aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

H3N2-HA1, also known as hemagglutinin antigen, is a subtype of viruses that causes influenza (flu). H3N2 Viruses can infect birds and mammals. In birds, humans, and pigs, the virus has mutated into many strains. It is increasingly abundant in seasonal influenza. This protein binds to sialic acid receptors on the cell surface, allowing viral particles to attach to cells. It plays an important role in host range restriction and toxicity

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determination, and mediates the penetration of virus into the cytoplasm by mediating the fusion of endosomal membrane and membrane. Recombinant Influenza A virus (H3N2, canine) HA protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

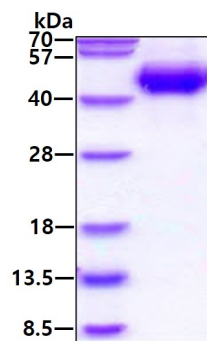
<ADP>NLPNGEN NAATLCLGHH AVPNGTIVKT ITDDQIEVTN ATELVQNSST GKICNNPHKI LDGRDCTLID ALLGDPHCDV FQNETWDLFV ERSNAFNSCY PYDVPDYASL RSIVASSGTL EFITEGFTWA GVTQNGGSGA CKRGPANGFF SRLNWLTKSG NTYPVLNVMT PNNNNFDKLY IWGVHHPSTN QEQTSLYIQA SGRVTVSTRR SQQTIIIPNIG SRPLVRGQSG RISVYWTIVK PGDVLVINSN GNLIAPRGYF KMRIGKSSIM RSDAPIDTCI SECITPNGSI PNEKPFQNVN KITYGACPKY VKQNTLKLAT GMRNVPEKQT <HHHHHH>

## General References

Rene Gramer., et al. (2007) Can J Vet Res. 71:201-206.  
Blanton., et al. (2017) MMWR Morb Mortal Wkly. 66:1043-1051.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.