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# Recombinant Influenza A H3N2 Hemagglutinin/HA1 protein

Catalog Number: ATGP1481

### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

17-345aa

#### UniProt No.

C6KNH7

#### **NCBI Accession No.**

ACS71642.1

## **Alternative Names**

Hemagglutinin, Influenza A virus (A/Perth/16/2009(H3N2)) hemagglutinin, HA

# PRODUCT SPECIFICATION

## **Molecular Weight**

37.8 kDa (339aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) 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**

#### **Description**

Influenza A virus H3N2 is a subtype of viruses that cause influenza (flu). H3N2 viruses can infect birds and mammals. In birds, humans, and pigs, the virus has mutated into many strains. Hemagglutinin (HA) binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. It plays a major role in the determination of host range restriction and virulence and is responsible for



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penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. Recombinant Influenza A virus (A/Perth/16/2009 H3N2) HA protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

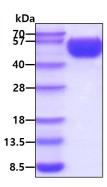
<ADPM>QKLPGN DNSTATLCLG HHAVPNGTIV KTITNDQIEV TNATELVQSS STGEICDSPH QILDGKNCTL IDALLGDPQC DGFQNKKWDL FVERSKAYSN CYPYDVPDYA SLRSLVASSG TLEFNNESFN WTGVTQNGTS SACIRRSKNS FFSRLNWLTH LNFKYPALNV TMPNNEQFDK LYIWGVHHPG TDKDQIFLYA QASGRITVST KRSQQTVSPN IGSRPRVRNI PSRISIYWTI VKPGDILLIN STGNLIAPRG YFKIRSGKSS IMRSDAPIGK CNSECITPNG SIPNDKPFQN VNRITYGACP RYVKQNTLKL ATGMRNVPEK QTR

### **General References**

Alymova IV., et al. (2011) J Virol. 85(23):12324-33. Cappuccio JA., et al. (2011) J Gen Virol. 92(12):2871-8.

### **DATA**

#### **SDS-PAGE**



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

