

# Recombinant Influenza A H7N9 Hemagglutinin/HA1 protein

Catalog Number: ATGP4034

## PRODUCT INFORMATION

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**Expression system**

Baculovirus

**Domain**

19-339aa

**UniProt No.**

A0A024E3P0

**NCBI Accession No.**

AHZ60024

**Alternative Names**

Hemagglutinin, Influenza A virus (A/Anhui/1-BALF\_RG45/2013(H7N9) hemagglutinin, HA, Hemagglutinin HA1 chain

## PRODUCT SPECIFICATION

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**Molecular Weight**

36 kDa (330aa)

**Concentration**

1mg/ml (determined by Absorbance at 280nm)

**Formulation**

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

**Purity**

&gt; 95% by SDS-PAGE

**Endotoxin level**

&lt; 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**

H7N9/HA (hemagglutinin1) belongs to the influenza viruses hemagglutinin family. Influenza A virus subtype H7N9 (A/H7N9) is a bird flu strain of the species Influenza virus A Influenza and Influenza hemagglutinin (HA) or haemagglutinin is a type of hemagglutinin found on the surface of the influenza viruses. An H7N9 virus was first

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reported to have infected humans in March 2013, in China. The CDC estimates that the H7N9 virus has the greatest potential compared with other influenza A viruses to cause a pandemic, although the risk is low, because like other type A viruses, it is not easily transmitted between people in its current form. H7N9/HA is an antigenic glycoprotein and is responsible for binding the virus to the cell that is being infected. HA protein has two functions. Firstly, it allows the recognition of target vertebrate cells, accomplished through the binding of these cells' sialic acid-containing receptors. Secondly, once bound it facilitates the entry of the viral genome into the target cells by causing the fusion of host endosomal membrane with the viral membrane. Recombinant Influenza A virus (A/Anhui/1-BALF\_RG45/2013(H7N9)) HA1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADL>DKICLGH HAVSNGTKVN TLTERGVEVV NATETVERTN IPRICKSGKR TVDLGQCGLL GTITGPPQCD QFLEFSADLI IERREGSDVC YPGKFVNEEA LRQILRESGG IDKEAMGFTY SGIRTNGATS ACRRSGSSFY AEMKWLLSNT DNAAFPQMTK SYKNTRKSPA LIVWGIHHSV STAEQTKLYG SGNKLVTVGS SNYQQSFVPS PGARPQVNGL SGRIDFHWM LNPNDVTFS FNGAFIAPDR ASFLRGKSMG IQSGVQVDAN CEGDCYHSGG TIISNLPFQN IDSRVAGKCP RYVKQRSLLL ATGMKNVPEI PKGR<HHHHHH>

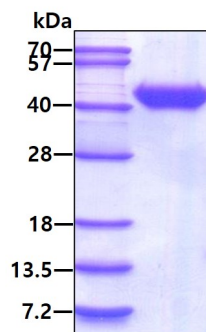
## General References

Tanner WD, et al. (2015) *pidemiol Infect.* 143:3359-3374.

Wu X, et al. (2020) *Front Med.* 14:8-20.

## DATA

### SDS-PAGE



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