

Recombinant Influenza A H7N9 Hemagglutinin/HA1 protein

Catalog Number: ATGP4034

PRODUCT INFORMATION

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

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

> 95% 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

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

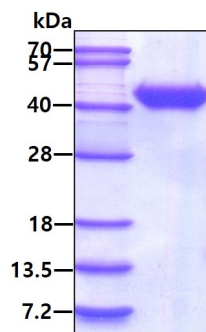
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<ADL>DKICLGH HAVSNGTKVN TLTERGVEVV NATETVERTN IPRICKGKR TVDLGQCGLL GTITGPPQCD QFLEFSADLI  
IERREGSDVC YPGKFNVEEA LRQILRESGG IDKEAMGFTY SGIRTNGATS ACRRSGSSFY AEMKWLLSNT DNAAFPQMTK  
SYKNTRKSPA LIVWGIHHSV STAEQTKLYG SGNKLVTVGS SNYQQSFVPS PGARPQVNGL SGRIDFHWM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



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