

Recombinant Influenza A H5N1 Hemagglutinin/HA1 protein

Catalog Number: ATGP1497

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

17-338aa

UniProt No.

A9YU04

NCBI Accession No.

ABY19417

Alternative Names

Hemagglutinin, Influenza A virus (A/Vietnam/HN31242/2007H5N1) hemagglutinin, H, HA

PRODUCT SPECIFICATION

Molecular Weight

37.4 kDa (332aa)

Concentration

1mg/ml (determined by BCA 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

H5N1/HA (hemagglutinin1) belongs to the influenza viruses hemagglutinin family. Influenza hemagglutinin (HA) or haemagglutinin is a type of hemagglutinin found on the surface of the influenza viruses. It is an antigenic glycoprotein. It 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

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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/Viet Nam/HN31242/2007 (H5N1)) HA1 protein, fused to His-tag at C-terminus, was expressed in insect cell using baculovirus expression system and purified by using conventional chromatography.

Amino acid Sequence

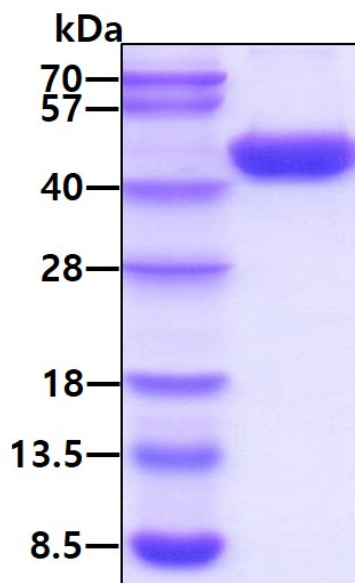
<ADPM>DQICIG YHANNSTEQV DTIMEKNVTV THAQDILEKT HNGKLCDLDG VKPLILRDCS VAGWLLGNPM
CDEFINVPEW SYIVEKANPA NDLCYPGNFN DYEELKHLLS RINHFEEKIQI IPKSSWS DHE ASSGVSSACP YQGVPSFFRN
VWVLIKKNNT YPTIKRSYNN TNQEDLLILW GIHHSNDAAE QTKLYQNPTT YISVGTSTLN QRLVPKIATR SKVNGQSGRM
DFFWTILKPN DAINFESNGN FIAPEYAYKI VKKGD SAIMK SEVEYGNCNT KCQTPIGAIN SSMPFHNIHP LTIGECKPKYV
KSNKLVLATG LRNSPL<HHHH HH>

General References

Li S., et al. (2010) Infect. Genet. Evol. 10:1286-1288
Song D., et al. (2008) Emerg. Infect. Dis. 14:741-746

DATA

SDS-PAGE



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