Recombinant Influenza A H3N2 Hemagglutinin/HA1 protein

Catalog Number: ATGP1488

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
18-344aa

UniProt No.
E2E3B0

NCBI Accession No.
ADB45177.1

Alternative Names
Hemagglutinin, Hemagglutinin HA1 chain, Hemagglutinin HA2 chain, HA, Influenza A virus (A/canine/Guangdong/1/2006(H3N2))

PRODUCT SPECIFICATION

Molecular Weight
36.9 kDa (336aa)

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) 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
Influenza A virus subtype H3N2, also known as 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

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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 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 (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

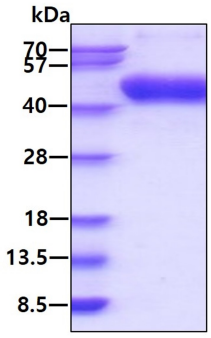
<ADP>NLPGNENN AATLCLGHHA VPNGTIVKTI TDDQIEVTNA TELVQNSSTG KICNNPHKIL DGRDCTLIDA LLGDPHCDVF QNETWDLFVE RSNAFSNCYP YDVPDYASLR SIVASSGTLE FITEGFTWAG VTQNGGSGAC KKGPANGFFS RLNWLTKSGN TYPVLNVTMP NNNNFDKLYI WGVHHPSTNQ EQTSLYIQAS GRVKVSTRRS QQTIIPNIGS RPLVRGQSGR ISVYWTIVKP GDVLVINSNG NLIAPRGYFK MRIGKSSIMR SDAPIDTCIS ECITPNGSIP NEKPFQNVNK ITYGACPKYV KQNTLKLATG MRNVPERQT<H HHHHH>

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.