Recombinant Influenza A H1N1 Hemagglutinin/HA1 protein

Catalog Number: ATGP1484

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
18-344aa

UniProt No.
C7RYS4

NCBI Accession No.
ACV04238.1

Alternative Names
hemagglutinin, Influenza A virus (A/New York/3571/2009 H1N1) hemagglutinin, HA

PRODUCT SPECIFICATION

Molecular Weight
37.8 kDa (339aa)

Concentration
1mg/ml (determined by absorbance at 280nm)

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
HA1 (hemaggulutinin1) 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/New York/3571/2009 (H1N1)) 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

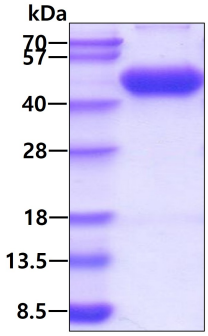
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General References

Russell RJ, et al. (2008) Proc. Natl. Acad. Sci. u.S.A. 105 (46): 17736-41.
White JM, et al. (1997) Structural Biology of Viruses. Oxford university Press. pp. 80-104.

DATA

SDS-PAGE



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