Influenza A H7N3 (A/turkey/Italy/214845/2002) Hemagglutinin Protein (HA1 Subunit) (His Tag)
Catalog Number: 40128-V08H1

General Information

Gene Name Synonym:
HA

Protein Construction:
A DNA sequence encoding the Influenza A virus (A/turkey/Italy/214845/2002(H7N3)) hemagglutinin (CAF33017.1) (Met1-Arg349), termed as HA1, was expressed with a C-terminal polyhistidine tag.

Source: H7N3
Expression Host: HEK293 Cells

QC Testing
Purity: > 95 % as determined by SDS-PAGE

Endotoxin:
< 1.0 EU per μg of the protein as determined by the LAL method

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asp 19

Molecular Mass:
The recombinant HA1 subunit of Influenza A virus (A/turkey/Italy/214845/2002(H7N3)) comprises 332 amino acids and has a predicted molecular mass of 36.5 kDa. The apparent molecular mass of the protein is approximately 47.3 kDa in SDS-PAGE under reducing conditions.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:

Protein Description

The influenza viral Hemagglutinin (HA) protein is a homo trimer with a receptor binding pocket on the globular head of each monomer. HA has at least 18 different antigens. These subtypes are named H1 through H18.HA has two functions. Firstly, it allows the recognition of target vertebrate cells, accomplished through the binding to 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. The influenza virus Hemagglutinin (HA) protein is translated in cells as a single protein, HA0, or hemagglutinin precursor protein. For viral activation, hemagglutinin precursor protein (HA0) must be cleaved by a trypsin-like serine endoprotease at a specific site, normally coded for by a single basic amino acid (usually arginine) between the HA1 and HA2 domains of the protein. After cleavage, the two disulfide-bonded protein domains produce the mature form of the protein subunits as a prerequisite for the conformational change necessary for fusion and hence viral infectivity.

References


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