

Recombinant Influenza A H7N7 (A/Netherlands /219/2003) Hemagglutinin / HA Protein

Catalog No.: RP03133

Sequence Information

Species **Gene ID**
Influenza A

Swiss Prot **Tags**
C-His

Synonyms
Hemagglutinin; HA

Product Information

Source **Purification**
Baculovirus-
Insect Cells ≥ 85 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
59 kDa 60-66 kDa

Endotoxin
< 1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from sterile PBS, pH
7.4. Contact us for customized
product form or formulation.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

The influenza viral Hemagglutinin (HA) protein is a homotrimer 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 the host endosomal membrane with the viral membrane. The influenza virus Hemagglutinin (HA) protein is translated in cells as a single protein, HA, or hemagglutinin precursor protein. For viral activation, hemagglutinin precursor protein (HA) 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.

Basic Information

Description

Recombinant Influenza A H7N7 (A/Netherlands/219/2003) Hemagglutinin / HA Protein is produced by Baculovirus-Insect cells expression system. The target protein is expressed with sequence (Met8-Phe544) (Native, HA1+HA2) of Influenza A H7N7 (A/Netherlands/219/2003) Hemagglutinin/HA (Accession #AAR02640.1) fused with a polyhistidine tag at the C-terminus.

Activity

1. Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 0.05-0.3 μg/ml for 1% GRBC
2. Measured by its ability to bind with Neu5Aca2-3Galb1-4GlcNAcb-PAA-biotin (01-077) using the Octet RED System.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Influenza A H7N7 (A/Netherlands/219/2003) Hemagglutinin / HA Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.