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Recombinant Influenza A H1N1 (A/Swine/Wisconsin/136/1997) Hemagglutinin / HA1 Protein

Catalog No.: RP03171 Recombinant

Sequence Information

Species Influenza A

Gene ID

Swiss Prot Q9IIJ7

Tags
C-His

Synonyms
Hemagglutinin; HA1

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
37.8 kDa.

Observed MW
50-60 KDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

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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 H1N1 (A/Swine/Wisconsin/136/1997) Hemagglutinin / HA1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Arg344) of Influenza A H1N1 (A/California/07/2009) Hemagglutinin/HA (Accession #AAF87275.1) fused with a His tag at the C-terminus.

Bio-Activity

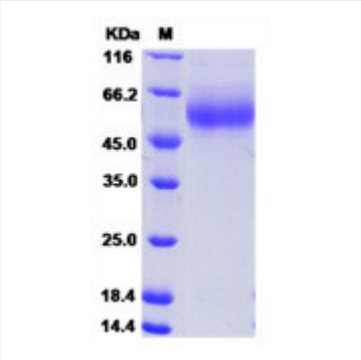
Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃
Avoid repeated freeze/thaw cycles.

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

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Validation Data



Recombinant Influenza A H1N1 (A/Swine/Wisconsin/136/1997) Hemagglutinin / HA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.