abcam

Product datasheet

Recombinant Influenza A HA1 (H9N2) protein (His tag) ab219897

1 Image

Description

Product name	Recombinant Influenza A HA1 (H9N2) protein (His tag)
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	Q80KD9
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Influenza A
Sequence	DKICIGHQSTNSTETVDTLTETNVPVTHAKELLHTEHNGML CATSLGHPL ILDTCTIEGLVYGNPSCDLLLEGREWSYIVERSSAVNGTCY PGNVENLEE LRTLFSSASSYQRIQIFPDTTWNVTYTGTSRACSGSFYRSM RWLTQKSGF YPVQDAQYTNNRGKSILFVWGIHHPPTYTEQTNLYIRNDTTT SVTTEDLN RTFKPVIGPRPLVNGLQGRIDYYWSVLKPGQTLRVRSNGN LIAPWYGHVL SGGSHGRILKTDLKSGSCVVQCQTEKGGLNSTLPFHNISK YAFGTCPKYV RVNSLKLAVGLRNVPARSSR
Predicted molecular weight	38 kDa including tags
Amino acids	19 to 338
Tags	His tag C-Terminus
Additional sequence information	Influenza A [A/Guinea fowl/Hong Kong/WF10/99 (H9N2)] HA1

Specifications

Our Abpromise guarantee covers the use of **ab219897** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

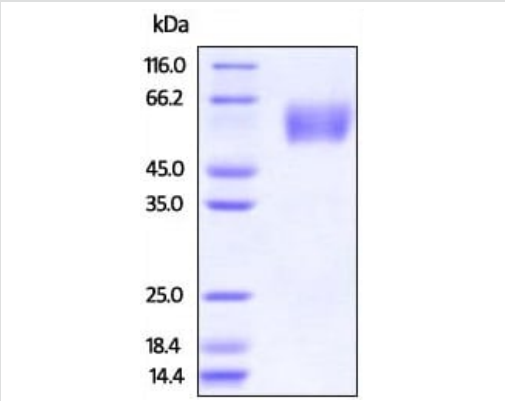
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 5% Trehalose, 95% PBS Lyophilized from 0.22 μm filtered solution. Note: 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 400 μg/ml.

General Info

Relevance	Hemagglutinin (HA) is a class I viral fusion protein from the Influenza virus. It is a major glycoprotein, comprising over 80% of the envelope proteins present in the virus particle. HA binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell, 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. The HA protein is a homotrimer of disulfide-linked HA1-HA2. It also plays a major role in the determination of host range restriction and virulence. Genetic variation of hemagglutinin and/or neuraminidase genes results in the emergence of new influenza strains. Influenza A subtypes are classified based on the combination of the virus coat glycoproteins, hemagglutinin (HA) and neuraminidase (NA). H9N2 influenza A viruses circulate worldwide. Since the mid-1990s, H9 viruses have become adapted to land-based birds and have crossed sporadically to pigs and humans, causing mild respiratory disease. Importantly, some of the currently circulating H9N2 viruses bind to sialic acid receptors linked to galactose in the {alpha}-2,6 conformation, which is the preferential binding pattern of human influenza viruses. Thus, these H9N2 viruses possess one of the key elements needed to establish stable lineages in humans.
Cellular localization	viral envelope; apical plasma membrane. Associated with glycosphingolipid- and cholesterol-enriched detergent-resistant lipid rafts (By similarity).

Images



SDS-PAGE - Recombinant Influenza A HA1 (H9N2) protein (His tag) (ab219897)

SDS-PAGE analysis of reduced ab219897 stained overnight with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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