

Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer Recombinant Protein

Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer Protein (His Tag)(HPLC-verified)

CATALOG #
AAA259242

HOST
HEK293 Cells

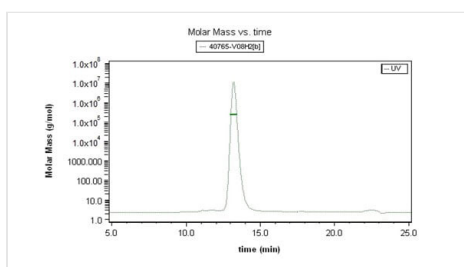
PRODUCT SYNONYMS

Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer; Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer Protein (His Tag)(HPLC-verified); Harvey rat sarcoma viral oncogene homolog; Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer recombinant protein

PRODUCT SPECIFICATIONS

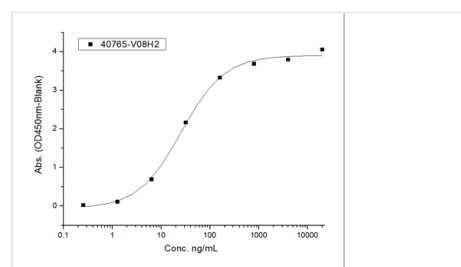
Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC. = 90% as determined by SEC-MALS.
Form/Format	Lyophilized from sterile 25mM Sodium Citrate, 200mM NaCl, pH 6.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	H3N2
Predicted N Terminal	Gln 17
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Influenza A virus (A/Hong Kong/45/2019 (H3N2)) hemagglutinin (translated amino acids of EPI1588464), termed as HA, was expressed with the bacteriophage T4 fibrin and a polyhistidine tag at the C-terminus.
Activity	1.Immobilized Recombinant Influenza A H3N2 (A/Hong Kong/45/2019)HA trimer protein (His Tag) at 2 ug/mL (100 uL/well) can bind a broadly neutralizing influenza HA stem-specific antibody, the EC50 is 12-36 ng/mL. 2.Recombinant Influenza A H3N2 (A/Hong Kong/45/2019)HA trimer Protein, His Tag, HPLC-verified was more than 95% and the molecular weight of this protein is around 245.3 kDa verified by SEC-MALS (Routinely tested).
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



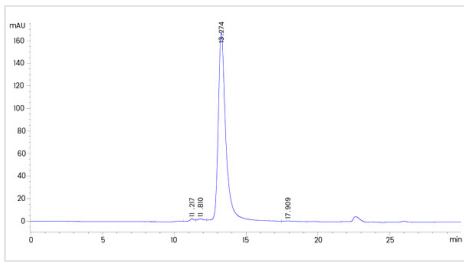
Application Data

Recombinant Influenza A H3N2 (A/Hong Kong/45/2019)HA trimer Protein, His Tag, HPLC-verified(#AAA259242)was more than 95% and the molecular weight of this protein is around 245.3 kDa verified by SEC-MALS(Routinely tested).

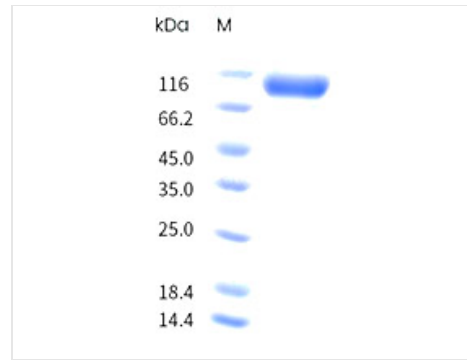


Application Data

Immobilized Recombinant Influenza A H3N2 (A/Hong Kong/45/2019)HA trimer protein (His Tag) (#AAA259242) at 2 ug/mL (100 uL/well) can bind a broadly neutralizing influenza HA stem-specific antibody, the EC50 is 12-36 ng/mL.



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for Influenza A H3N2 (A/Hong Kong/45/2019) Hemagglutinin/HA trimer recombinant protein	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.
References	White JM, Hoffman LR, Arevalo JH, et al. Attachment and entry of influenza virus into host cells. Pivotal roles of hemagglutinin. In Chiu W, Burnett RM, Garcea RL. Structural Biology of Viruses. 1997 Suzuki Y. Sialobiology of influenza: molecular mechanism of host range variation of influenza viruses. Biol. Pharm. Bull. 2005. Senne DA, Panigrahy B, Kawaoka Y, et al. Survey of the hemagglutinin (HA) cleavage site sequence of H5 and H7 avian influenza viruses: amino acid sequence at the HA cleavage site as a marker of pathogenicity potential. Avian Dis. 1996 Donald J. Benton, Influenza hemagglutinin membrane anchor, PNAS, 2018

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant hemagglutinin of the Influenza A virus (A/Hong Kong/45/2019 (H3N2)) consists of 558 amino acids and predicts a molecular mass of 62.55 kDa. It migrates as an approximately 91.6 kDa band in SDS-PAGE under reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/influenza-a-h3n2-a/hong-kong/45/2019-hemagglutinin/ha-trimer-recombinant-protein-hek293-cells/259242>