

Influenza A H7N9 Active Protein | H7N9 active protein

Influenza A H7N9 (A/Hangzhou/3/2013) Hemagglutinin/HA Protein (His Tag)

CATALOG # AAA258068	HOST Baculovirus-Insect Cells	REACTIVITY H7N9
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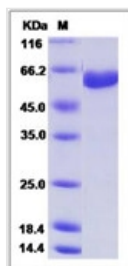
PRODUCT SYNONYMS

Influenza A H7N9; Influenza A H7N9 (A/Hangzhou/3/2013) Hemagglutinin/HA Protein (His Tag); Harvey rat sarcoma viral oncogene homolog; H7N9 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Reactivity	H7N9
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM, Tris 500mM NaCl, 10% glycerol, pH7.4, 5% Trehalose, 5% Mannitol, 0.01% Tween-80
Sequence	Met1-Val52 4
Species	H7N9
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asp 19
Tag	C-His
Protein Construction	A DNA sequence encoding the Influenza A virus (A/Hangzhou/3/2013(H7N9)) hemagglutinin (EPI442713)(Met1-Val524) was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Bio Activity	1. Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 0.06-0.6?g/mL for 1% GRBC. It also agglutinates chick red blood cells. 2. Measured by its ability to bind with Neu5Aca2-3Galb1-4GlcNAcb- PAA-biotin (01-077) using the Octet RED System. 3. Measured by its ability to bind with Neu5Aca2-6GalNAca-PAA-biotin (01-059) using the Octet RED System
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



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for H7N9 active protein	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, 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

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/baculovirus-insect-cells-active-protein/influenza-a-h7n9/258068>