

HA (H7N9)(aa 19-535) (A/Shanghai/02/2013)

CATALOG NUMBER: IA-H7-009P, 50 µg, 1mg

Introduction

Influenza hemagglutinin (HA) is a type of hemagglutinin found on the surface of the influenza viruses. HA is an antigenic glycoprotein, like all other hemagglutinins, it causes red blood cells to agglutinate. HA is responsible for binding the virus to the cell that is being infected. HA proteins bind to cells with sialic acid on the membranes, such as cells in the upper respiratory tract or erythrocytes.

HA is a homotrimeric integral membrane glycoprotein. HA monomer is synthesized as a single polypeptide that is subsequently cleaved into two smaller polypeptides, the HA1 and HA2 subunits. Each HA monomer consists of a long, helical chain anchored in the membrane by HA2 and topped by a large HA1 globule.

H7N9 is a serotype of the species Influenza virus A (avian influenza virus or bird flu virus). Avian influenza A H7 viruses normally circulate amongst avian populations, but recently new H7N9 variants was first reported to have infected humans in 2013 in China.

Description

Viral recombinant protein purified from 293 cell culture

Viral Protein

C-terminal 6xHis tagged hemagglutinin (H7N9)(A/Shanghai/02/2013) protein (amino acid 19-535)(GISAID accession# EPI439502)

Applications

Western blot standard, antibody ELISA, antigen, etc.

Storage

Store at -20 °C; Stable for 3-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

Endotoxin Level

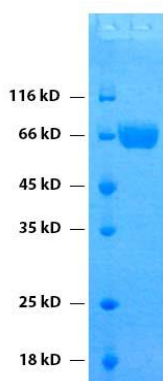
<0.01 EU per 1 µg of the protein by LAL test

Concentration

1 µg/µl in PBS

Purity

≥ 95% purity (SDS PAGE)



SDS-PAGE: purified HA (H7N9)(A/Shanghai/02/2009)(aa19-535) protein

HA (aa 19-535)(A/Shanghai/02/2013/H7N9) SEQ:

DKICLGHHAVSNGTKVNTLTERGVEVVNATETVERTNIPRICSKGKRTVDLGQCGLLGTITGPPQCDQFLEFSADLI IERRE
GSDVCYPGK FVNEEALRQILRESGGIDKEAMGFTYSGIRTNGATSACRRSGSSFYAEMKWLLSNTDNAAFPQMTKSYKNTRK
SPALIVWGIHHSVSTAEQTKLYGSGNKLVTVGSSNYQQSFVPSPGARPQVNGLSGRIDFHWMMLNPNDTVTFSFNAGAFIAPD
RASFLRGKSMGIQSGVQVDANCEGDCYHSGGTIIISNLPFQNI DSRAVGKCPRYVKQRSLLLATGMKNVPEIPKGRGLFGAIA
GFIENGWEGLIDGWYGFRRHQNAQGEFTAADYKSTQSAIDQITGKLNRLIEKTNQQFELIDNEFNEVEKQIGNVINWTRDSIT
EVWSYNAELLVAMENQHTIDLADSEMDKLYERVKRQLRENAEEDGTGCFEIFHKCDDDCMASIRNNTYDHSKYREEAMQNRI
QIDPVKLSSGYKDV

References

1. Gao R, et al. Human Infection with a novel avian-origin influenza A (H7N9) virus. N Engl J Med. 368,1888-97, 2013.
2. Fouchier RA, et al. Gain-of-function experiments on H7N9. Science. Aug 7, 2013.