

HA (aa 18-530)(A/Anhui/1/2005)(H5N1)

CATALOG NUMBER: IA-0053W-005P, 50 µg

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.

Description

Viral protein purified from 293 cell culture.

Viral Protein

C-terminal 6x his tagged full-length HA (H₅N₁) (A/Anhui/1/2005) protein (amino acid 18-530) (GenBank accession# ABD28180). Majority of the protein exists as trimer/oligomer.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

Concentration

1 µg/µl in PBS

Purity

>95% pure by 10% SDS PAGE gel

250 kD
150 kD
100 kD
75 kD
50 kD
37 kD
25 kD
20 kD



SDS-PAGE: purified H5 (H5N1) (A/Anhui/1/2005) protein (reducing condition)

HA (A/Anhui/1/2005)(aa 18-530) SEQ:

QICIGYHANNSTEQVDTIMEKNVTVTHAQDILEKTHNGKLCDDLGVKPLILRDCSVAGWLLGNPMCDEFINVPESYIVEKANPANDLCYPGNFN DYEE
LKHLLSRINHFEKIQIIPKSSWSDHEASSGVSSACPYQGTSPFFRN VVWLIIKNN TYPTIKRSYNN TNQEDLLILWGIHHSNDAEQTKLYQNPTTYIS
VGTSTLNQRLVPKIATR SKVNGQSGRMDFFWTILKPNDAINFESNGNFI APEYAYKIVKKGDSAIVKSEVEYGN CNTKCQTPIGAINSSMPFHNIHPLT
IGECPKYVKS NKLVLATGLRNSPLRERRRRKGLFGA IAGFIEGGWQGMVDGWYGYHHSNEQSGYAADKESTQK AIDGVTNKVNSIIDKMNTQFEAVGR
EFNNLERRIENLNKKMEDGFLDVW TYNAELLVLMENERTLDFHDSNVKNLYDKVRLQLRDN AKELGNGCFEFYHKCDNECMESVRNGTYDYPQYSEEAR
LKREEISGVKLESIGTYQH HHHHHH