

Recombinant Influenza Hemagglutinin (H9 Hong Kong) Full-Length Glycoprotein (rHA GP)

Catalog No: tcip3041



Available Sizes

Size: 50µg



Specifications

Application:

ELISA, WB

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

Supplied at a concentration of 0.33 mg/mL (by BCA) in Tris buffered saline plus 0.01% non-ionic detergent. ; The theoretical molecular weight of the protein is ~63 kDa, without glycosylation. Because of the highly glycosylated nature of this protein, mig

Recommended Dilution:

Western Blot: Quality control testing demonstrates detection of GP null under reduced conditions when using anti-H9 influenza antiserum. ; Hemagglutination with Turkey Red Blood Cells: HA Titer 1:32
768

Purity / Grade:

Column chromatography (FPLC); Purity: Residual baculovirus GP64 co-purifies with the affinity purified rHA GP and was determined to be less the 10% of the total protein.

Storage Instruction:

2-3 weeks at -20°C, long term It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles

Relevance:

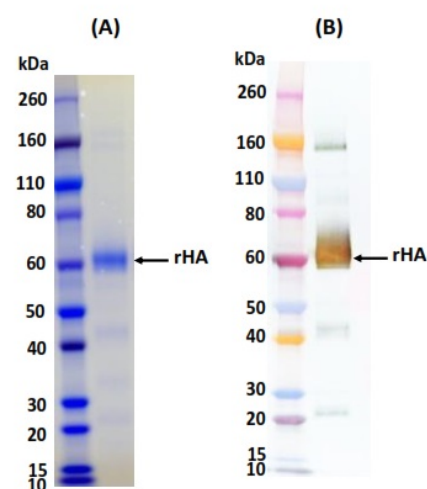
Recombinant hemagglutinin glycoprotein provides a control protein for immunoassays and a tool to enhance

Orthomyxovirus research.

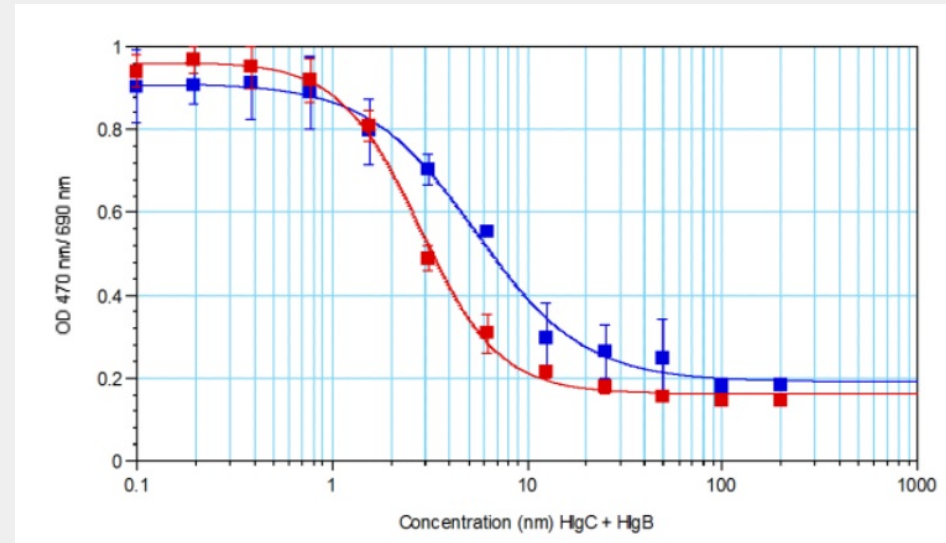
Product Description

Recombinant, Influenza Hemagglutinin Full-Length Glycoprotein (rHA GP) from virus strain A/Hong Kong/33982/2009 (H9N2). Recombinant HA is supplied as an affinity purified protein. rHA is produced in Sf9 insect cells using baculovirus for expression and is purified by FPLC

SDS-PAGE and Western Blot Detection



The theoretical molecular weight of the protein is ~62 kDa, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms. (A) SDS-PAGE of rHA under reduced condition :1 µg. (B) Western blot detection of rHA at 100 ng, using an anti-HA (H1N1) polyclonal antibody at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.



Toxin Functionality: Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of Hlg B tag-free and Hlg C at equimolar concentration for 3 hours at 37°C with 5% CO₂ and 95% humidity. Cellular viability was determined by adding XTT and incubation for additional 16 hours. OD's were determined in the supernatants at 470/690 nm. Red squares represent the current lot of HlgC tag-free (1509003) and blue square represents the previous HlgC his-tag (Cat # 1403-002, Lot# 1211003). EC₅₀ was found to be 2.84 nM for current lot and 5.53 nM for HlgC his-tag (Cat # 1403-002, Lot# 1211003).

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!