

glycoprotein C/gC Protein, HHV-2 (Cell-Free, His)

Cat. No.:	HY-P702291
Synonyms:	Envelope glycoprotein C
Species:	Virus
Source:	E. coli Cell-free
Accession:	Q89730 (S28-R480)
Gene ID:	1487331
Molecular Weight:	50.5 kDa

PROPERTIES

AA Sequence	<p> S P G R T I T V G P R G N A S N A A P S A S P R N A S A P R T T P T P P Q P R K A T K S K A S T A K P A P P P K T G P P K T S S E P V R C N R H D P L A R Y G S R V Q I R C R F P N S T R T E F R L Q I W R Y A T A T D A E I G T A P S L E E V M V N V S A P P G G Q L V Y D S A P N R T D P H V I W A E G A G P G A S P R L Y S V V G P L G R Q R L I I E E L T L E T Q G M Y Y W V W G R T D R P S A Y G T W V R V R V F R P P S L T I H P H A V L E G Q P F K A T C T A A T Y Y P G N R A E F V W F E D G R R V F D P A Q I H T Q T Q E N P D G F S T V S T V T S A A V G G Q G P P R T F T C Q L T W H R D S V S F S R R N A S G T A S V L P R P T I T M E F T G D H A V C T A G C V P E G V T F A W F L G D D S S P A E K V A V A S Q T S C G R P G T A T I R S T L P V S Y E Q T E Y I C R L A G Y P D G I P V L E H H G S H Q P P P R D P T E R Q V I R A V E G A G I G V A V L V A V V L A G T A V V Y L T H A S S V R Y R R L R </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Glycoprotein C (gC Protein) emerges as a crucial attachment protein facilitating virus binding to cell surfaces through interactions with heparan sulfate or chondroitin sulfate. This pivotal role underscores its significance in the initial stages of viral infection. Beyond its attachment function, gC Protein also plays a vital role in immune evasion by inhibiting the activation of the host complement cascade. Its interaction with host complement component C3b leads to the modulation of the complement cascade, disrupting the host immune response. This dual functionality positions gC Protein as a key player in both the viral entry process and the virus's evasion of the host immune system.

Caution: Product has not been fully validated for medical applications. For research use only.

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