

## glycoprotein E/gE Protein, HHV-3 (Cell-Free, His, SUMO)

Cat. No.:	HY-P702295
Synonyms:	Envelope glycoprotein E
Species:	Virus
Source:	E. coli Cell-free
Accession:	P09259 (S31-R623)
Gene ID:	1487709
Molecular Weight:	85.4 kDa

### PROPERTIES

#### AA Sequence

S V L R Y D D F H T	D E D K L D T N S V	Y E P Y Y H S D H A	E S S W V N R G E S
S R K A Y D H N S P	Y I W P R N D Y D G	F L E N A H E H H G	V Y N Q G R G I D S
G E R L M Q P T Q M	S A Q E D L G D D T	G I H V I P T L N G	D D R H K I V N V D
Q R Q Y G D V F K G	D L N P K P Q G Q R	L I E V S V E E N H	P F T L R A P I Q R
I Y G V R Y T E T W	S F L P S L T C T G	D A A P A I Q H I C	L K H T T C F Q D V
V V D V D C A E N T	K E D Q L A E I S Y	R F Q G K K E A D Q	P W I V V N T S T L
F D E L E L D P P E	I E P G V L K V L R	T E K Q Y L G V Y I	W N M R G S D G T S
T Y A T F L V T W K	G D E K T R N P T P	A V T P Q P R G A E	F H M W N Y H S H V
F S V G D T F S L A	M H L Q Y K I H E A	P F D L L L E W L Y	V P I D P T C Q P M
R L Y S T C L Y H P	N A P Q C L S H M N	S G C T F T S P H L	A Q R V A S T V Y Q
N C E H A D N Y T A	Y C L G I S H M E P	S F G L I L H D G G	T T L K F V D T P E
S L S G L Y V F V V	Y F N G H V E A V A	Y T V V S T V D H F	V N A I E E R G F P
P T A G Q P P A T T	K P K E I T P V N P	G T S P L L R Y A A	W T G G L A A V V L
L C L V I F L I C T	A K R M R V K A Y R	V D K S P Y N Q S M	Y Y A G L P V D D F
E D S E S T D T E E	E F G N A I G G S H	G G S S Y T V Y I D	K T R

**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<sub>2</sub>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.

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## DESCRIPTION

### Background

Glycoprotein E (gE), an integral part of the envelope in viral structure, functions by binding to the potential host cell entry receptor IDE. Particularly crucial in epithelial cells, the heterodimer gE/gI plays a key role in facilitating the cell-to-cell spread of the virus. This is achieved by sorting nascent virions to cell junctions, where the virus can rapidly disseminate to adjacent cells through interactions with cellular receptors that accumulate at these junctions. In polarized cells, gE/gI is implicated in basolateral spread. In neuronal cells, this glycoprotein heterodimer is essential for the anterograde spread of the infection throughout the host nervous system. Collaborating with US9, gE/gI is also involved in the sorting and transport of viral structural components toward axon tips, contributing to the overall efficiency of the viral life cycle.

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

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