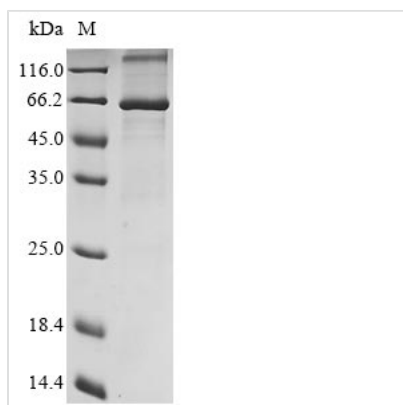




Recombinant Human herpesvirus 2 Envelope glycoprotein E (gE)

Product Code	CSB-CF310072HJX
Abbreviation	Recombinant Human herpesvirus 2 gE protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P89475
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Human herpesvirus 2 (strain HG52) (HHV-2) (Human herpes simplex virus 2)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AAPRTSWKRVTSGEDVLLPAPAERTRAHKLWAAEPLDACGPLRPSWVALW PPRRVLETVVDAACMRAPEPLAIAYSPPFPAGDEGLYSELAWRDRVAVVNESL VIYGALETDSGLYTLSVVGLSDEARQVASVVLVVEPAPVPTPTDDYDEEDDA GVTNARRSAFPPQPPRRPPVAPPTHPRVIPEVSHVRGVTVHMETLEAILFAP GETFGTNVSIHAIHDDGPYAMDVVWMRFDVPSSCADMRIYEACLYHPQLPE CLSPADAPCAVSSWAYRLAVRSYAGCSRTTPPPRCFAEARMPEVPGLAWLAS TVNLEFQHASPQHAGLYLCVVYVDDHIHAWGHMTISTAAQYRNAVVEQHLPQ RQPEPVEPTRPHVRAPHAPPSARGPLRLGAVLGAALLLAALGLSAWACMTCW RRRSWRAVKSRASATGPTYIRVADSELYADWSSDSEGERDGSLWQDPPERP DSPSTNGSGFEILSPTAPSVYPHSEGRKSRRPLTTFGSGSPGRRHSQASYPS VLW
Research Area	Others
Source	in vitro E.coli expression system
Target Names	gE
Expression Region	21-545aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	60.1 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant HHV-2 Envelope glycoprotein E protein is a cell-free system in vitro E.coli expressed protein (Full Length of Mature Protein). In cell-free systems, synthesis of the protein can be carried out in vitro using extracts of whole cells that are compatible with translation. These cell extracts contain all the molecules and enzymes that are needed to transcribe, translate, and post-translationally modify the recombinant protein. With additional supplements of cofactors, Envelope glycoprotein E proteins can be formed in a few hours. However, this system may not be applicable for the large-scale production of recombinant proteins. Advantages of this system include that proteins can be synthesized without cell culturing; also, it is possible to express many proteins together.

HSV-2 gE is important for cell-to-cell transmission and virus-induced cell fusion. It acts as an immune evasion molecule by attaching the IgG Fc domain. HSV-2 gE protects the virus from antibody and complement neutralization in a synergistic manner with gC. Antibodies generated by gE immunization prevented gE-mediated IgG Fc binding and cell-to-cell dissemination. As a result, gE is a potential antigen for inclusion in a multivalent subunit vaccination aimed at blocking HSV-2 immune evasion.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.