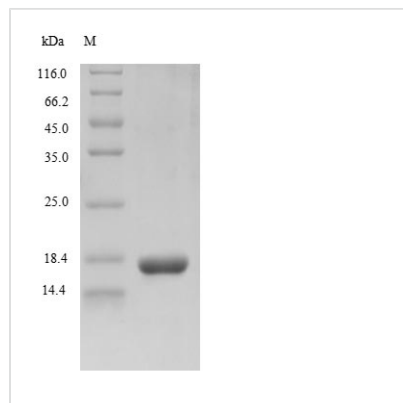




Recombinant Rhesus cytomegalovirus Envelope glycoprotein B (gB), partial

Product Code	CSB-EP309330RKC
Relevance	Envelope glycoprotein that forms spikes at the surface of virion envelope. Essential for the initial attachment to heparan sulfate moities of the host cell surface proteoglycans. Involved in fusion of viral and cellular membranes leading to virus entry into the host cell. Following initial binding to its host receptors, membrane fusion is mediated by the fusion machinery composed at least of gB and the heterodimer gH/gL. May be involved in the fusion between the virion envelope and the outer nuclear membrane during virion egress.
Abbreviation	Recombinant Rhesus cytomegalovirus gB protein, partial
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.	P89053
Product Type	Recombinant Protein
Immunogen Species	Rhesus cytomegalovirus (strain 68-1) (RhCMV)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MRQKRAYEKPFEHFFPYVVPPTTVKEAPPSYEQSQYENIKEKAASATKEFSLE EAYQMLLALQKLDQEKRRKAEADDEDFA SNGQSAGFLDRLNRNRRRGGYQKIQ NEYEV
Research Area	others
Source	E.coli
Target Names	gB
Protein Names	Recommended name: Envelope glycoprotein B Short name= gB
Expression Region	745-854aa
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 and C-terminal Myc-tagged
Mol. Weight	18.0 kDa
Protein Length	Partial
Image	



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

Description

The expression region of this recombinant Rhesus cytomegalovirus gB (Envelope glycoprotein B) covers amino acids 745-854. This gB (Envelope glycoprotein B) protein is theoretically predicted to have a molecular weight of 18 kDa. Expression of this gB (Envelope glycoprotein B) protein is conducted in e.coli. The N-terminal 10xHis tag and C-terminal Myc tag was smoothly integrated into the coding gene of gB (Envelope glycoprotein B), which enables a simple process of detecting and purifying the gB (Envelope glycoprotein B) recombinant protein in the following steps.

The Rhesus cytomegalovirus (RhCMV) envelope glycoprotein B (gB) is a key viral protein involved in the entry of the virus into host cells. As a major component of the viral envelope, gB plays a crucial role in the fusion of the viral envelope with the host cell membrane during the initial stages of infection. This fusion process is essential for the delivery of the viral genome into the host cell, facilitating the establishment of a productive infection. Additionally, gB is a prominent target for the host immune response, eliciting the production of antibodies and immune cells aimed at neutralizing the virus. Studying the RhCMV gB provides insights into viral entry mechanisms and immune evasion strategies employed by cytomegaloviruses.

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.