

## Glycoprotein B/gB Protein, CyCMV (HEK293, Fc)

Cat. No.:	HY-P77075
Synonyms:	Macaca fascicularis Cytomegalovirus (CyCMV) (strain OT-1) glycoprotein B / GB Protein (Fc)
Species:	Virus
Source:	HEK293
Accession:	ADV35145 (A228-D680, with cleavage site mutated RHKR to TTQT)
Gene ID:	/
Molecular Weight:	Approximately 102.5 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	<p>Glycoprotein B (gB) is a key envelope glycoprotein that forms unique spikes on the surface of virions and plays a crucial role in the initial attachment of the heparin sulfate portion of proteoglycans on the surface of host cells. This interaction is a fundamental step in the virus entry process. In addition, gB plays a key role in the fusion of viruses and cell membranes, facilitating the entry of viruses into host cells. The complex fusion mechanisms required for this process include at least gB and gH/gL heterodimers. In addition to adhesion and membrane fusion upon entry into the host cell, gB may also be involved in the fusion of the virion envelope with the outer nuclear membrane upon the departure of the virion. As a trimer linked by disulfide bonds, gB interacts with heparin sulfate proteoglycans and forms associations with gH/gL heterodimers, further emphasizing its multifaceted function in the viral life cycle. gB is activated by TLR2 and MyD88/ TRAF6-dependent signaling pathways NF-<math>\kappa</math>B<sup>[1][2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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