

## HCMV Glycoprotein B/gB Protein (HEK293)

Cat. No.:	HY-P74875
Synonyms:	Human cytomegalovirus (HCMV) Glycoprotein B / gB Protein
Species:	Virus
Source:	HEK293
Accession:	AAA45920 (S25-K700&R777-V907, with cleavage site mutated RTKR to TTQT)
Gene ID:	/
Molecular Weight:	130-140 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of Tris 50 mM, NaCl 100 mM, pH 8.0. 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	gB is an envelope glycoprotein that plays a role in host cell entry, cell-to-cell viral transmission, and infected cell fusion. gB is involved in initial attachment through a gM/gN complex bound to heparin sulfate, which binds heparin with higher affinity. 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. gB interacts with host integrins ITGB1, PDGFRA, and EGFR, possibly entering the receptor as post-attachment <sup>[1][2][3]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA