

HCMV Glycoprotein B/gB Protein (HEK293, Fc)

Cat. No.:	HY-P75161
Synonyms:	Human cytomegalovirus (HCMV) Glycoprotein B / gB Protein; Envelope glycoprotein B; UL55
Species:	Virus
Source:	HEK293
Accession:	AAA45920 (S25-K700&R777-V907, with cleavage site mutated RTKR to TTQT)
Gene ID:	/
Molecular Weight:	160-170 kDa

PROPERTIES

Biological Activity	Measured by its ability to bind biotinylated Human CD209-Fc in functional ELISA.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

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^{[1][2][3]}.

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

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