

Recombinant HCMV Glycoprotein B (GB) protein, Fc-tagged

Cat. No. GB-18H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HCMV GB protein (Val23-Lys700), fused to human IgG1 Fc tag (rh CMV-GB Fc Chimera) at C-terminus with furin cleavage site mutated from 'RTKR' to 'TTQT', was expressed in human 293 cells (HEK293).
Species	HCMV
Source	HEK293
ProteinLength	678
Description	Human cytomegalovirus is a species of the Cytomegalovirus genus of viruses, which in turn is a member of the viral family known as Herpesviridae or herpesviruses. It is typically abbreviated as HCMV or, commonly but more ambiguously, as CMV. CMV Virus Envelope Glycoprotein B (CMV-GB) can be cleaved into glycoprotein GP55. Envelope glycoprotein that plays a role in host cell entry, cell to-cell virus transmission, and fusion of infected cells. CMV-GB may be involved in the initial attachment via binding to heparan sulfate together with the gM/gN complex that binds heparin with higher affinity. Furthermore, CMV-GB can interact with host integrin ITGB1, PDGFRA and EGFR that likely serve as postattachment entry receptors. Also, CMV-GB participates in the fusion of viral and cellular membranes leading to virus entry into the host cell. Membrane fusion is mediated by the fusion machinery composed at least of gB and the heterodimer gH/gL.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl,

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pH7.5, 10% trehalose.

Molecular Mass

The protein has a calculated MW of 104 kDa. The protein migrates as 140-150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per ug by the LAL method.

Purity

>85% as determined by SDS-PAGE.

Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

-20 centigrade to -70 centigrade for 12 months in lyophilized state;

-70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Official Symbol

[GB](#)

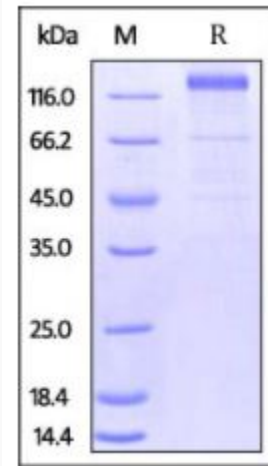
UniProt ID

[P13201](#)

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SDS-PAGE of GB-18H

HCMV GP (virus), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

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