Human CellExp™ Glycoprotein B, HCMV Recombinant

CATALOG NO: P1240-10 10 µg

ALTERNATE NAMES: GB

SOURCE: HEK 293 cells (Gln 25 - His 559)

PURITY: > 80% by SDS – PAGE

MOL. WEIGHT: This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 93.7 kDa. The protein migrates as 116-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

ENDOTOXIN LEVEL: < 1.0 EU per 1µg of protein (determined by LAL method)

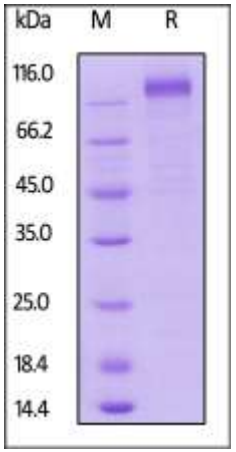
FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex.

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 Glycoportein 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.



HCMV Glycoprotein B (gB), His Tag on SDS-PAGE under reducing (R) condition

RELATED PRODUCT:

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- Human CellExp™ CD155, human recombinant **(Cat. No. 7462-10, -50)**
- Human CellExp™ CD160/BY55, human recombinant **(Cat. No. 7386-10, -50)**
- Human CellExp™ CD166/ ALCAM, human recombinant **(Cat. No. 7437-10, -50)**
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- Human CellExp™ CD55/DAF, human recombinant **(Cat. No. 7432-10, -50)**
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- Human CellExp™ CD62E/E-Selectin, human recombinant **(Cat. No. 7434-20, -100)**
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- Human CellExp™ CD273, human recombinant **(Cat. No. 7369-10, -50)**
- Human CellExp™ CD36, human recombinant **(Cat. No. 7371-10, -50)**
- Human CellExp™ CD87, human recombinant **(Cat. No. 7372-20, -100)**

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