

Recombinant Human Cytomegalovirus UL55, His-tagged

Cat. No. UL55-3328H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CMV gB (extracellular domain, (Met 1- Lys 700), linked with the cytoplasmic domain (Arg 777- Val 907)), fused with a His-tag at C-terminus, was expressed in <i>Human Cells</i> .
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Species	Human
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Source	Human Cells
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Description	Human cytomegalovirus(CMV) (human herpesvirus 5) glycoprotein B is a 907-amino acid glycoprotein encoded by the ORF of UL55. It is the most abundant component of the envelope with at least two defined neutralizing epitopes, a target of neutralizing antibodies and an essential replication component. The synthesized gB precursor matures into a 130-160 kDa glycoprotein by acquiring N-linked glycosylation modifications, and is cleaved by the cellular protease furin into two components, a 93-116 kDa N-terminal fragment and a 55 kDa C-terminal fragment linked by a disulfide-bond, which is presented on the viral envelope as well as on the surface of virus-infected cells as a covalently associated homodimer. gB plays important roles in HCMV entry, cell-cell spread of internal virions, and fusion of infected cells. It triggers penetration of cells and enhances the spread of infection in nonpolarized human fibroblasts. The interaction of gB with the non-heparin receptor CD209/DC-SIGN is the initiation of intracellular signaling and activation of the IFN-responsive pathway. In addition, gB is one envelope protein capable of heparin binding. It forms a physical association with host cell annexin II independent of the presence of calcium.
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Purity	> 95% as determined by SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Predicted N Terminal	Ser 25.
Formulation	Lyophilized from sterile PBS , pH 7.4.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Molecular Mass	The recombinant human CMV glycoprotein B (transmembrane domain deletion) comprises 818 amino acids and has a predicted molecular mass of 93 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the recombinant CMV gB is approximately 130-140 kDa due to glycosylation.

GENE INFORMATION

Gene Name	UL55 type 1 membrane protein; possible membrane fusogen; binds cell surface heparan sulphate; involved in cell entry; involved in cell-to-cell spread [Human herpesvirus 5]
Synonyms	type 1 membrane protein; possible membrane fusogen; binds cell surface heparan sulphate; involved in cell entry; involved in cell-to-cell spread; UL55; type 1 membrane protein; possible membrane fusogen; binds cell surface heparan sulphate; involved in cell entry; involved in cell-to-cell spread; envelope glycoprotein B; HHV5wtgp060
Gene ID	3077424

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mRNA Refseq

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