

Recombinant Cytomegalovirus UL55 protein, Fc-tagged

Cat. No. UL55-180C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cytomegalovirus UL55(Met 1-Lys 700) linked with the cytoplasmic domain (Arg 777-Val 907) of human CMV gB (AAA45920.1, with furin cleavage site mutated from 'RTKR' to 'TTQT') precursor was fused with the Fc region of human IgG1 at the C-terminus was expressed in HEK293.
Species	Cytomegalo Virus
Source	HEK293
ProteinLength	Met 1-Lys 700
Description	Human cytomegalovirus (CMV) (human herpesvirus 5) glycoprotein B, also referred as CMV gB or gB, which belongs to the herpesviridae glycoprotein B family. It is a 907-amino acid glycoprotein encoded by the ORF of UL55. Cytomegalovirus Glycoprotein B protein is the most abundant component of the envelope, a target of neutralizing antibodies with at least two defined neutralizing epitopes and an essential replication component. Cytomegalovirus Glycoprotein B protein plays important roles in HCMV entry, cell-cell spread of internal virions, and fusion of infected cells. In addition, Cytomegalovirus Glycoprotein B protein is one envelope protein capable of heparin binding. It forms a physical association with host cell annexin II independent of the presence of calcium.
Predicted N Terminal	Asn 25
Form	Lyophilized from sterile 100mM Gly, 10mM NaCl, 50mM Tris, pH 7.5. Normally 5 % -

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	8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human CMV glycoprotein B/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 1045 amino acids and has a predicted molecular mass of 118 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of gB/Fc monomer is approximately 160-170 kDa due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 80 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.