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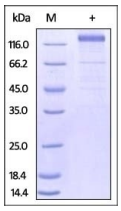
Cytomegalovirus Glycoprotein Recombinant Protein

Cat. No.: 97-053



Cytomegalovirus Glycoprotein Recombinant Protein

Specifications

SPECIES:	Human cytomegalovirus
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Val 23 - Lys 700
FUSION TAG:	Fc Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	104 kDa

Properties

PURITY:	>85% as determined by SDS-PAGE. Endotoxin level is less than 1.0 EU per ug by the LAL method.
PHYSICAL STATE:	Lyophilized
BUFFER:	Tris with Glycine, Arginine and NaCl, pH7.5

STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20˚C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20˚C or -70˚C. Avoid repeated freeze-thaw cycles.

Additional Info

OFFICIAL SYMBOL:	Glycoprotein / GP (virus)
ALTERNATE NAMES:	Cytomegalovirus Glycoprotein
ACCESSION NO.:	AAA45920.1
GENE ID:	223014

Background and References

BACKGROUND:	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.
REFERENCES:	1) Wang X., et al., 2002, Nature 424:456-461.
	2) Feire A.L., et al., 2009, J. Virol. 84:10026-10037.
	3) Halary F., et al., 2001, Immunity 17:653-664.