



Product Data Sheet

Cat # RP-1064

Recombinant Cytomegalo Virus gB

Size: 100 ug

CMV belongs to the Beta herpesvirinae subfamily of Herpesviridae which includes herpes simplex virus types 1 and 2, varicella-zoster virus, and Epstein-Barr virus. The herpesviruses share a characteristic ability to remain latent over long periods. CMV is a double-stranded linear DNA virus with 162 hexagonal protein capsomeres surrounded by a lipid membrane. CMV has the largest genome of the herpes viruses, ranging from 230-240 kilobase pairs. Human CMV is composed of unique and inverted repeats that include the existence of 4 genome isomers caused by inversion of L-S genome components (class E). Replication may be divided into immediate early, delayed early, and late gene expression based on time of synthesis after infection. The DNA is replicated by rolling circles. In vitro, CMV replicates in human fibroblasts. Immunoreactive with sera of CMV-infected individuals.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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Source: The E.Coli derived recombinant artificial mosaic protein contains the CMV gB immunodominant regions. 25mM Tris-Hcl pH 8.0, 1mM EDTA and 50% glycerol.

Purification Method: CMV gB was purified by proprietary chromatographic technique.

Applications and Suggested Dilutions: CMV gB was purified by proprietary chromatographic technique. Users must optimize the appropriate concentration and conditions for each assay. CMV gB Antigen is suitable for ELISA and Western blots, excellent antigen for detection of CMV with minimal specificity problems.

Storage and Stability: CMV gB protein is shipped at ambient temperature. Upon arrival, Store at -20°C . Five years frozen. One month in solution at room temperature. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.