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Certificate of Analysis and Data Sheet

Recombinant Cytomegalovirus gB

Catalog No.	**Source**
228-10253	*E.Coli*

Introduction:

MV belongs to the Beta herpesvirinae subfamily of Herpesviridae which includes herpes simplex virustypes 1 and 2, varicella-zoster virus, and Epstein-Barrvirus. The herpes viruses 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.

Description

The E.Coli derived recombinant artificial mosaic protein contains the CMV gB immunodominant regions 11-67 amino acids, fused with a 26 kDa GST Tag, the protein weight is 6.5kDa, having a total weight of 32.5 kDa.

Purification Method

CMV gB was purified by proprietary chromatographic technique.

Purity

CMV gB protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation

25mM Tris-Hcl pH 8.0, 1mM EDTA and 50% glycerol.

Storage

CMV gB protein is shipped at ambient temperature. Upon arrival, store at -20°C.
Stable for five years frozen. One month in solution at room temperature.

Specificity

Immunoreactive with sera of CMV-infected individuals.

Applications

CMV gB Antigen is suitable for ELISA and Western blots, excellent antigen for detection of CMV with minimal specificity problems.