



Product Data Sheet

Cat # RP-1067

Recombinant Cytomegalo Virus pP52 (UL44)

Size: 100 ug

CMV belongs to the Betaherpesvirinae subfamily of Herpesviridae which includes herpes simplex virus types 1 and 2, varicella-zoster virus, and Epstein-Barrvirus. 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.

**Source:** The E.coli derived 51 kDa recombinant protein contains the CMV Pp52 (UL44) immunodominant regions, 202-434 amino acids. 25mM Tris-Hcl pH 8.0, 1mM EDTA and 50% glycerol.

**Applications and Suggested Dilutions:** CMV Pp52 protein is >95% pure as determined by 10% PAGE (coomassie staining). CMV Pp52 protein was purified by proprietary chromatographic technique. CMV Pp52 antigen is suitable for ELISA and Western blots, excellent antigen for detection of CMV with minimal specificity problems. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** CMV Pp52 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.

**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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