



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Recombinant Cytomegalovirus pP52 (UL44)

Catalog No.
228-10258

Source
E. Coli

Introduction:

CMV belongs to the Betaherpesvirinae 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 51 kDa recombinant protein contains the CMV Pp52 (UL44) immunodominant regions, 202-434 amino acids. Recombinant CMV-Pp52 is fused to a 26 kDa GST tag.

Purification Method

CMV Pp52 protein was purified by proprietary chromatographic technique.

Purity

CMV Pp52 protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation

50mM Tris-Hcl pH 7.2, 60mM NaCl, 10mM glutation and 50% glycerol.

Storage

CMV Pp52 protein is shipped at ambient temperature. Upon arrival, Store at -20°C. Five years frozen. One month in solution at room temperature.

Specificity

Immunoreactive with sera of CMV-infected individuals.

Applications

CMV Pp52 antigen is suitable for ELISA and Western blots, excellent antigen for detection of CMV with minimal specificity problems.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**