ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

□ Cat.#MCGB15-R-10 Recombinant (E. Coli) Mouse Cytomegalovirus (MCMV/MuHV-1) Glycoprotein B (gB) Protein (his-tag) **SIZE**:100 ul

Muromegalovirus is a genus of viruses in the order Herpesvirales, in the family Herpesviridae, in the subfamily Betaherpesvirinae. Rodents that belong to the betaherpesvirinae subfamily of herpesviruses serve as natural hosts. There are currently three species in this genus including the type species Murid herpesvirus 1. Diseases associated with this genus include: infected peritoneal macrophages, dendritic cells (DC) and hepatocytes, inducing significant pathology in both the spleen and the liver. Murid viruses murid herpesvirus 1 (MuHV-1) and murid herpesvirus 2 (MuHV-2)--previously defined as mouse cytomegalovirus (MCMV) and rat cytomegalovirus (RCMV)--belong to this genus.

Viruses in Muromegalovirus are enveloped, with icosahedral, spherical to pleomorphic, and round geometries, and T=16 symmetry. The diameter is around 150-200 nm. Genomes are linear and non-segmented, around 230kb in length.

Viral replication is nuclear, and is lysogenic. Entry into the host cell is achieved by attachment of the viral glycoproteins to host receptors, which mediates endocytosis. Replication follows the dsDNA bidirectional replication model. DNA-templated transcription, with some alternative splicing mechanism is the method of transcription. The virus exits the host cell by nuclear egress, and budding. Rodents serve as the natural host.

Source of Antigen



Recombinant-Mouse Cytomegalovirus protein was expressed in E.coli as a his-tag fusion protein (458 aa, >95%, ~56 kda). Purified protein is supplied in 50mM Tris-HCl, 0.5 mM EDTA, 5mM β-mercaptoethanol, 0.25M NaCl and 0.25M Imidazole (see lot sp. Conc. on the vial)

Endotoxin level : < 1.0 EU per µg protein as determined by the LAL method.

It is suitable for ELISA, Western or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly.

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

ELISA, Western blot

Cellular Activity, Histochemistry & Immunofluorescence

Specificity & Cross-reactivity

Mouse Cytomegalovirus (MCMV/MuHV-1; 458 aa, Acc no. # P27171.2) is conserved in Murid viruses (100%) and has sequence homology with Rat cytomegalovirus (54%). Recombinant purified MCGB15-R-10 is also available.

General References: Rapp M, (1992) J. Virol. 66:4399-4406; Messerle M, (1992) Virology 191:355-367; Rawlinson W.D, (1996) J. Virol. 70:8833-8849.

**This product is for In vitro research use only.*

Related material available from ADI

Catalog# Prod Description

2100 Cytomegalovirus IgG (CMV IgG) ELISA kit, Semi-Quantitative
2200 Cytomegalovirus IgM (CMV IgM) ELISA kit, Semi-Quantitative

3300-370-CMG Human Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgG ELISA kit, 96 tests, Quantitative

3300-375-01N Human anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgG Negative Serum
3300-375-02P Human anti-Cytomegalovirus(HCMV/CMV/Human Herpes Virus-5/HHV-5) IgG Positive Serum

3300-375-CMM Human Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgM ELISA kit, 96 tests, Quantitative
3300-380-CMA Human Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgA ELISA kit, 96 tests, Quantitative
3300-770-CMG Monkey Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgG ELISA kit, 96 tests, Quantitative

3300-775-CMM Monkey Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgM ELISA kit, 96 tests, Quantitative

3300-780-CMA Monkey Anti-Cytomegalovirus (HCMV/CMV/Human Herpes Virus-5/HHV-5) IgA ELISA kit, 96 tests, Quantitative

AB-23258-A Rabbit Anti- Human cytomegalovirus (strain AD169) (HHV-5) (Human herpesvirus 5) Protein pp71 (UL82) IgG (aff pure)

AB-23258-P Human cytomegalovirus (strain AD169) (HHV-5) (Human herpesvirus 5) Protein pp71 (UL82) Control/blocking peptide
AE-301000-03N Mouse Anti-Cytomegalovirus ((MCMV/MuHV-1) Glycoprotein B (gB) IgG negative serum

AE-301000-04P Mouse Anti-Cytomegalovirus ((MCMV/MuHV-1) Glycoprotein B (gB) IgG positive serum
AE-301000-1 Recombivirus Mouse Anti-Cytomegalovirus (MCMV/MuHV-1) gB IgG ELISA Kit, 96 tests
MCGB15-R-10 Recombinant (E. Coli) Mouse Cytomegalovirus (MCMV/MuHV-1) Glycoprotein B (gB) Protein (his-tag, >95% Pure)

MCGB15-R-10-protein 160222SV

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