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Certificate of Analysis and Data Sheet

Recombinant Epstein-Barr Virus (HHV-4) Mosaic EBNA1

Catalog No.

228-10351

Source:

Escherichia Coli.

Introduction

The Epstein-Barr virus (EBV), also called Human herpes virus 4 (HHV-4), is a virus of the herpes family (which includes Herpes simplex virus and Cytomegalo virus). On infecting the B-lymphocyte, the linear virus genome circularizes and the virus subsequently persists within the cell as an episome. The virus can execute several distinct programs of gene expression which can be broadly categorized as being lytic cycle or latent cycle. The lytic cycle or productive infection results in staged expression of a host of viral proteins with the ultimate objective of producing infectious virions. Formally, this phase of infection does not inevitably lead to lysis of the host cell as EBV virions are produced by budding from the infected cell. The latent cycle (lysogenic) programs are those that do not result in production of virions. A very limited, distinct set of viral proteins are produced during latent cycle infection. These include Epstein-Barr nuclear antigen (EBNA)-1, EBNA-2, EBNA-3A, EBNA-3B, EBNA-3C, EBNA-leader protein (EBNA-LP) and latent membrane proteins (LMP)-1, LMP-2A and LMP-2B and the Epstein-Barr encoded RNAs (EBERs).

Description

The E. Coli derived recombinant mosaic protein contains the HHV-4 EBNA regions, 1-90, 408-498 amino acids, the Mw is 46kDa (including 26kDa GST tag).

Formulation

50mM Tris-HCl pH 8, 10mM glutathione, 60mM NaCl and 0.5% sarcosyl.

Specificity

Immunoreactive with sera of EBV-infected individuals.

Purification Method

EBV-EBNA1 was purified by proprietary chromatographic technique.

Purity

EBV-EBNA1 protein is >95% pure as determined by 10% PAGE (Coomassie staining).

Storage

EBV-EBNA1 protein is shipped at ambient temperature.

Upon arrival, Store at -20°C.

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



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Stability

Five years frozen. One month in solution at room temperature.

Applications

EBV-EBNA1 antigen is suitable for ELISA and Western blots, excellent antigen for detection of HHV-4 (EBV) with minimal specificity problems.

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