
Product Data Sheet

Product Name: JEV
Cat. No.: GP25455
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	20mM Tris-MES pH 6.5, 8M urea, 200mM NaCl and 0.05% Tween-20.		

Introduction

Japanese encephalitis previously known as Japanese B encephalitis is a virus from the family Flaviviridae. It is closely related to the West Nile virus and St. Louis encephalitis virus. Positive sense single stranded RNA genome is packaged in the capsid, formed by the capsid protein. The outer envelope is formed by envelope (E) protein and is the protective antigen. It aids in entry of the virus to the inside of the cell. The genome also encodes several nonstructural proteins also (NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5). NS1 is produced as secretory form also. NS3 is a putative helicase, and NS5 is the viral polymerase. It has been noted that the Japanese encephalitis virus (JEV) infects the lumen of the endoplasmic reticulum (ER) and rapidly accumulates substantial amounts of viral proteins for the JEV. Japanese Encephalitis is diagnosed by detection of antibodies in serum and CSF (cerebrospinal fluid) by IgM capture ELISA.

Stability

Encephalitis protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Background

The E.coli derived recombinant protein contains full length Japanese Encephalitis virus ENV antigen having an Mw of 50kDa. The protein is fused to a 6 histidines tag.

Caution: Product has not been fully validated for medical applications. For research use only.

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