

Recombinant Japanese Encephalitis Virus Envelope

CATALOG NO:	P1112-10 P1112-50	10 µg 50 µg
SOURCE:	<i>E.coli</i>	
PURITY:	> 90% by SDS-PAGE	
FORM:	Liquid	
MOLECULAR WT:	The <i>E.coli</i> derived recombinant protein contains full length Japanese Encephalitis virus ENV antigen having an MW of 50 kDa. The protein is fused to a 6 histidines tag.	
FORMULATION:	20mM Tris-MES pH 6.5, 8M urea, 200mM NaCl and 0.05% Tween-20	
STORAGE CONDITIONS:	Stable at 4°C for 1 week, should be stored below -20°C. Avoid freeze thaw cycles.	

DESCRIPTION

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.

RELATED PRODUCT:

- Anti-Flavivirus group antigen, Human IgG1 Antibody (**Cat. No. A1102-100**)
- Human CellExp™ Zika virus NS1 Protein (**Cat. No. P1062-10**)
- Recombinant Zika virus NS1 Protein (**Cat. No. P1064-10, -50**)
- Recombinant Zika Envelope Protein (**P1063-10, -50**)
- Recombinant West Nile Virus Envelope Protein (**P1065-10, -50**)

FOR RESEARCH USE ONLY! Not to be used on humans.