Recombinant Japanese Encephalitis Virus Envelope Protein, His-tagged

Cat. No. JAP-471 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant JEV Envelope protein produced in HEK293 cells and purified from culture supernatant. Protein contains a C-terminal 6x His-tag. The NAC Japanese Encephalitis Virus Envelope protein has been manufactured in response to a need for a highly purified, concentrated protein for use in vaccine research and serological based diagnostic products. The antigen is in its native folding state, and possesses all post–translational modifications. This advanced approach results in a product which delivers optimal antigenicity due to its human origin.
Tag	His
Background	The Japanese encephalitis virus (JEV) is a flavivirus and is related to the West Nile Virus. JEV is the main cause of viral encephalitis in many countries of Asia with an estimated 68 000 clinical cases every year. Although symptomatic Japanese encephalitis (JE) is rare, the case-fatality rate among those with encephalitis can be as high as 30%. Permanent neurologic or psychiatric sequelae can occur in 30%–50% of those with encephalitis. Flaviviruses are positive-stranded RNA viruses with a 9-12- kb genome that is translated as a single polyprotein and then cleaved by host and viral proteases into structural capsid (C), premembrane (prM), envelope (E) proteins and seven nonstructural proteins. Capsid binds to viral RNA to form a nucleocapsid that is enveloped by an endoplasmic reticulum-derived membrane containing E and prM. E proteins are responsible for cellular attachment and possess a hydrophobic loop that mediates fusion of viral and host membrane.The E protein is therefore the primary

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	target of neutralizing antibodies.
Purity	Greater than 95% purity
Sequence Strain	SA-14, NCBI accession number P27395.1, AA295-694
Formulation	20mM Tris-HCl pH 7.8, 50mM NaCl
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Applications	Suitable for immunoassay development.
Storage	Short Term Storage: +2 centigrade to +8 centigrade Long Term Storage: -80 centigrade
Concentration	0.7 mg/mL
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease

GENE INFORMATION

Synonyms	Japanese Encephalitis Virus Envelope

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