



Synonym

Envelope protein E/E protein (JEV)

Source

Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag(ENE-J52H5) is expressed from human 293 cells (HEK293). It contains AA Phe 295 - Ala 700 (Accession # [P27395-1](#)).

Molecular Characterization

Envelope protein E/E protein (JEV)(Phe 295 - Ala 700)
 P27395-1

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 64.6 kDa. The protein migrates as 48-53 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

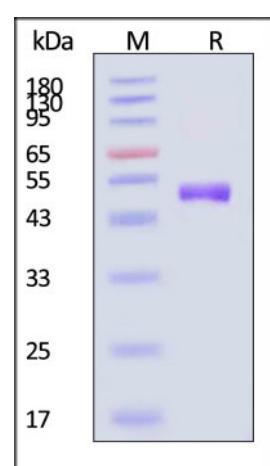
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

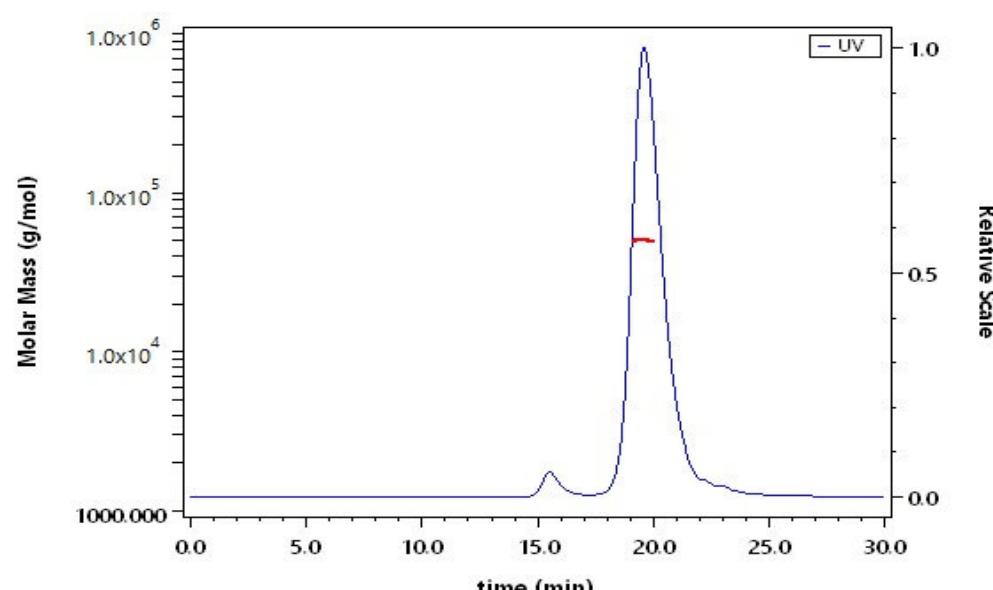
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag (Cat. No. ENE-J52H5) is more than 85% and the molecular weight of this protein is around 40-55 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

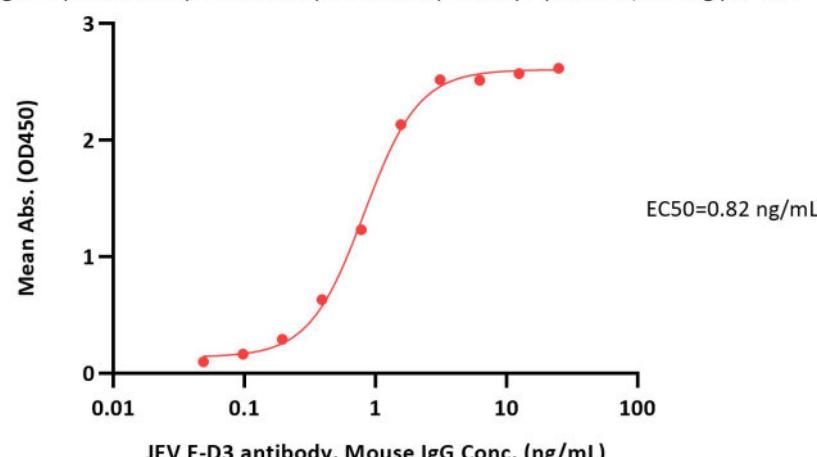
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Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag ELISA
0.1 μ g of Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag per well



Immobilized Japanese encephalitis virus (strain SA-14) Envelope protein E, His Tag (Cat. No. ENE-J52H5) at 1 μ g/mL (100 μ L/well) can bind JEV E-D3 antibody, Mouse IgG with a linear range of 0.1-2 ng/mL (QC tested).

Background

Japanese encephalitis B, a mosquito-borne flavivirus, or B encephalitis, is the most important cause of viral encephalitis in Asia in terms of frequency and severity. JEV envelope protein E is an important research target, binding to host cell surface receptors and mediating fusion between the virus and the cell membrane.

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