

## General Information

### Protein Construction

A DNA sequence encoding the envelope protein of Dengue virus (DENV)(type 2, strain New Guinea C/PUO-218 hybrid)(AAC59274.1) (Phe247-Gly675, with two amino acids "MV" at the N-terminal) was expressed with a polyhistidine tag at the C-terminus.

### Organism

DENV

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Purity

> 90 % as determined by SDS-PAGE.

### Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant envelope protein of Dengue virus (DENV)(type 2, strain New Guinea C/PUO-218

hybrid) consists of 442 amino acids and predicts a molecular mass of 49.2 kDa.

### Formulation

Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

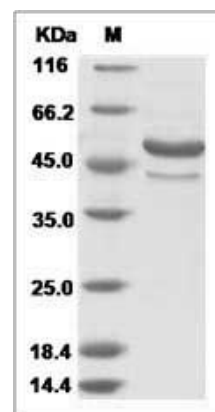
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Dengue virus (DENV) (type 2, strain New Guinea C/PUO-218 hybrid) E / Envelope Protein (His Tag)