# Recombinant Dengue Virus Envelope Protein-1

**DAG2713**  **DENV**  
Lot. No. (See product label)

## PRODUCT INFORMATION

**Product overview**  
The E. coli derived recombinant 28 kDa protein is genetically engineered peptide which is derived from Dengue Type-2 Envelope. This region also contains a common antigen for Dengue type 2, 3 and 4.

**Antigen Description**  
Caused by one of four closely related virus serotypes of the genus Flavivirus, family Flaviviridae, each serotype is sufficiently different that there is no cross-protection and epidemics caused by multiple serotypes (hyperendemicity) can occur. In cell culture experiments and mice Morpholino antisense oligos have shown specific activity against Dengue virus.

**Source**  
E. Coli

**Species**  
DENV

**Form**  
50mM sodium chloride-phosphorous buffer, pH-7.5.

**Molecular Mass**  
28 kDa

**AA Sequence**  
ATLRKYCIEAKLTNTTSDKRCPTQGEPSLNEEQDKRFVKHSMAKRWGNGCGLFGKGGIVTCAMF  
TCKKNMK  
GKVQPENLEYTIVTPSHSGEEHAVGNDTGKHKEKIPQPSSITEAELTYGAIVTMECSRTGLDFNE  
MVLL QMENKAWLVHRQWFLDLPL

**Purity**  
Purified by proprietary chromatographic tech. Protein is >95% pure as determined by 10% PAGE (coomassie staining).

## PACKAGING

**Stability**  
Five years frozen. One month in solution at room temperature.

**Storage**  
Protein is shipped at ambient temperature. Upon arrival, Store at -20°C.

## BACKGROUND

**Introduction**  
Dengue (DF) and dengue hemorrhagic fever (DHF) are caused by one of four closely related, but antigenically distinct, virus serotypes (DEN-1, DEN-2, DEN-3, and DEN-4), of the genus Flavivirus. Infection with one of these serotypes provides immunity to only that serotype for life, so persons living in a dengue-endemic area can have more than one dengue infection during their lifetime. DF and DHF are primarily diseases of tropical and subtropical areas, and the four different dengue serotypes are maintained in a cycle that involves humans and the Aedes mosquito.

**Keywords**  
Dengue Type 2; Dengue Type 2, Envelope (E); DENE; DENE E; DEN-2; Flaviviridae; Flavivirus; DENV P1; Dengue virus P1; P1; Dengue Virus Envelope Protein-1; Protein-1

## REFERENCES