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**Dengue Virus Envelope Subtype-3 D-III Recombinant
VIRAL ANTIGEN**

Catalog Number: PRP-013
Quantity: 100 micrograms, 500 micrograms, 1 milligram
Format: PBS, pH 7.4
Host: *E. coli*

Background:

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

Specificity and Preparation:

The *E. coli*-derived 15 kDa protein is from dengue type-3 envelope III domain immunodeterminant regions. The expressed protein contains 100 amino acids from the domain III region (amino acids 300-400) fused to a 6-His tag. This peptide is particularly important for diagnostic and vaccine development as it contains multiple serotypes, neutralizing epitopes, and receptor-binding domains. Purity is >95% as determined by SDS-PAGE followed by coomassie staining.

Usage and Storage:

The end user must determine the optimum working titer for each particular application. Protein may be shipped at ambient temperature. Although stable at 4°C for 1 week, the material should be stored below -18°C. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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