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**Polyvalent Dengue Antigen Recombinant  
VIRAL ANTIGEN**

**Catalog Number:** PRP-010DEN  
**Quantity:** 100 micrograms, 500 micrograms, 1 milligram  
**Format:** 50mM sodium chloride-phosphorous buffer, pH-7.5  
**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:**

Polyvalent dengue antigen is a 22 kDa protein that contains four dengue antigen subtypes. It is produced in *E. coli* and fused to a 6 His tag. The immunoreactive peptide spans from the viral envelope to the non-functional region. The antigen consists of 25% recombinant antigen from each of the dengue antigen subtypes. All four subtypes are recognized by the polyvalent antigen. The sensitivity and specificity reach approximately 93%-96% in dengue IgG and IgM ELISA assay. Purity is greater than 95% pure as determined by 10% PAGE followed by coomassie staining.

**Usage and Storage:**

The end user must determine the optimum working titer for each particular application. 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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