



6352 CORTE DEL ABETO, STE B
CARLSBAD, CA 92011 USA
01.858.642.1988 • WWW.ATSBIO.COM

Polyvalent Dengue Antigen Recombinant VIRAL ANTIGEN

Catalog Number: PRP-410
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.

To view protocol(s) for this and other products please visit: www.ATSBio.com/support/protocols