



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

Dengue Virus Envelope Subtype-3 Recombinant VIRAL ANTIGEN

Catalog Number: PRP-008
Quantity: 100 micrograms, 500 micrograms, 1 milligram
Format: 50 mM 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:

The *E. coli*-derived recombinant 28 kDa protein is a genetically engineered peptide which is from dengue type -3 envelope. This region also contains a common antigen for dengue virus types 1, 2 and 4. The sequence is from dengue virus type 3 strain C0360/94, genebank access code is AY923865. The protein is purified by proprietary chromatographic technique. Purity is >95% pure as determined by 10% PAGE followed by coomassie staining. Formulation is 50 mM sodium chloride-phosphorous buffer, pH-7.5.

Sequence:

GSLATLRKLCIEGKITNITTD SRCPTQGEAVLP EEQDQNYVCKHTYVDRGWGNGCGLFGKGS
LVTCAKFQCLEPIEGKVVQYENLKYTVIITVHTGDQHQVGN ETQGVTA EITPQASTTEAILP
EYGTLGLECSPRTGLDFNEMILLTMKNKAWMVHRQWFFDLPLPWTSGATTETPTWNRKELLV
TFKNAHAKKQE

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.

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