



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

**Dengue Virus Envelope Subtype-1 Recombinant
VIRAL ANTIGEN**

Catalog Number: PRP-005
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 23 kDa protein is a genetically engineered peptide corresponding to dengue type-1 N-terminus envelope immunodeterminant regions. This region also contains a common antigen for dengue virus types 1, 2 and 3. The protein is purified by proprietary chromatographic technique. Purity is >95% as determined by PAGE followed by coomassie staining.

Sequence:

TEAKQPATLRKYCIEAKLTNTTTDSRCPTQGEPSSLNEEQDKRFVCKHSMVDRGWGNGC
GLFGKGGIVTCAMFTCKKNMKGKVVQPENLEYTIVITPHSGEEHAVGNDTGKHGKEIKI
TPQSSITEAELTGYGTVTMECSPRTGLDFNEMVLLQMENKAWLVHRQWFLDLPLPWLP
GADTQGSNWIQKETLVTFKNPHAKKQDVVVLGSQEGAMHTALTGATEIQMSSGNLLFT
GHLKRLRMDKLQLKG

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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