

## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## Recombinant Dengue Virus Envelope C-Terminal Peptide

**Catalog No.**  
228-10310

**Source**  
*E. Coli*

### ***Introduction***

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

### ***Description***

The E.coli derived recombinant 12kDa protein is genetically engineered peptide which is derived from Dengue Type-2 envelope III domain immunodeterminant regions. The expressed dengue envelope Type-2 III domain peptide has 100 amino acids covering domain III region from amino acids 300-400, and is fused with a 6 His Tag. This peptide is particularly important for diagnostic and vaccine development as it contains multiple serotypes, neutralizing epitopes and receptor binding domain.

### ***Method***

Purified by proprietary chromatographic technique.

### ***Purity***

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

### ***Formulation***

50mM sodium chloride-phosphorous buffer, pH-7.5.

### ***Storage***

Protein is shipped at ambient temperature.  
Upon arrival, store at -20°C.

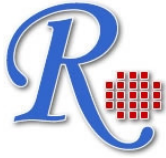
### ***Stability***

Five years frozen. One month in solution at room temperature.

### ***Applications***

Each laboratory should determine an optimum working titer for use in its particular application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### *Sequence*

YSMCTGKFKIVKEIAETQHGTIVIRVQYEGDGSPCKIPFEIMDLEKRHVL  
GRLITVNPVTEKDSPVNIEAEPFGDSYIIIIGVEPGQLKLDWFKKGSSIG  
QMFETTMRGAKRMA.

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