

## Recombinant DENV3 envelope (strain H87) protein

Cat. No. D3-02D    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant DENV3 envelope (strain H87) protein was expressed in insect cells (Baculovirus) and purified by proprietary affinity chromatography methodologies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | DENV3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>Dengue virus serotype 3 Envelope protein (E protein) has been manufactured in response to the unmet need for highly purified, concentrated protein for use in serological based diagnostic assays. Dengue virus serotype 3 Envelope protein is engineered in insect cells using state-of-the-art baculovirus expression and purification techniques.</p> <p>Dengue virus is a member of the flavivirus family, which includes Zika virus, West Nile virus and Japanese Encephalitis virus. Many of the proteins expressed by these viruses are very similar, and serological testing for these viruses can be complicated by problems of cross-reactivity. In this context, the use of highly purified antigens, that are glycosylated and folded as native proteins can be highly important in the development of accurate immunoassays.</p> <p>With more than one-third of the world's population living in areas at risk of transmission, dengue infection is a leading cause of illness and death in the tropics and subtropics as many as 100 million people are infected yearly.</p> <p>Dengue is caused by any one of four related viruses transmitted by mosquitoes. It is a febrile illness that affects infants, young children and adults with symptoms appearing 3-14 days after the infective bite. Symptoms range from mild fever, to incapacitating</p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

high fever, with severe headache, pain behind the eyes, muscle and joint pain, and rash. There is no vaccine or any specific medicine to treat dengue.

Severe dengue (also known as dengue hemorrhagic fever) is characterized by fever, abdominal pain, persistent vomiting, bleeding and breathing difficulty and is a potentially lethal complication, affecting mainly children. Early clinical diagnosis and careful clinical management by trained physicians and nurses increase survival of patient.

|                      |                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Form</b>          | PBS, pH 7.4 with 0.05% sodium azide as preservative.                                                       |
| <b>Purity</b>        | >95% pure. Single band by SDS-PAGE.                                                                        |
| <b>Applications</b>  | For Research Use Only. Suitable for use in western blot and immunoassay development or other applications. |
| <b>Storage</b>       | Store at -20 centigrade or lower. Avoid multiple freeze/thaw cycles.                                       |
| <b>Concentration</b> | Batch dependent (>1 mg/ml)                                                                                 |

## GENE INFORMATION

|                        |                  |
|------------------------|------------------|
| <b>Gene Name</b>       | POLY             |
| <b>Official Symbol</b> | POLY             |
| <b>Synonyms</b>        | polyprotein gene |
| <b>Gene ID</b>         | 5075727          |
| <b>Protein Refseq</b>  | YP_001621843.1   |

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**UniProt ID**
**Q6YMS3**
**Western Blot using  
Dengue Virus (DENV)  
Pan Envelope mAb  
of D3-02D**

Western blot using Dengue Virus (DENV) Pan Envelope mAb against different antigens produced in mammalian cells (DENV1 Envelope; DENV2 Envelope and DENV2 VLP; DENV3 Envelope and DENV3 VLP; DENV4 Envelope and DENV4 VLP) and insect cells (DENV1 Envelope; DENV2 Envelope; DENV3 Envelope; DENV4 Envelope).

**Antigen-down ELISA  
using Dengue Virus  
(DENV) Pan  
Envelope mAb of D3-  
02D**

ELISA detection using Dengue Virus (DENV) Pan Envelope mAb against different antigens produced in mammalian cells (DENV1 Envelope; DENV2 Envelope and DENV2 VLP; DENV3 Envelope and DENV3 VLP; DENV4 Envelope and DENV4 VLP) and insect cells (DENV1 Envelope; DENV2 Envelope; DENV3 Envelope; DENV4 Envelope).

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