



# Recombinant DENV type 1 Envelope Protein [His] (DAG3058)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|-------------------------|---|
| <b>Product Overview</b> | Dengue Type 1 Envelope Protein (EP) (a.a. 281-675) Recombinant. Product contains Histidine tag.   |
| <b>Species</b>          | DENV  |
| <b>Purity</b>           | > 95% pure (determined by SDS-PAGE). Purified by using immobilized metal-chelate affinity chromatography.   |
| <b>Conjugate</b>        | His   |
| <b>Applications</b>     | Suitable for use in ELISA, Lateral Flow and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. |
| <b>Molecular Weight</b> | ~ 50 kDa  |
| <b>Format</b>           | Liquid  |
| <b>Size</b>             | 1 mg  |
| <b>Buffer</b>           | Dulbecco's Phosphate Buffered Saline, pH 7.2-7.4  |
| <b>Preservative</b>     | 0.1% Thimerosal, 1 µg/mL of Leupeptin, Aprotinin and Pepstatin A  |
| <b>Storage</b>          | Aliquot and store at < -20°C. Avoid multiple freeze/thaw cycles.  |

## BACKGROUND

**Introduction** Dengue virus (DENV) is an enveloped, single-stranded, positive-sense RNA virus that includes

four related but distinct serotypes (DENV1, 2, 3, and 4). It encodes three structural proteins (capsid, membrane and envelope) and seven non-structural proteins (NS1, -2a, -2b, -3, -4a, -4b and -5). The envelope (E) glycoprotein mediates virion attachment to the receptor and fusion of the virus envelope with the target cell membrane. The recombinant E protein can be used in diagnostic assays for the detection of either primary or secondary dengue infection, to overcome safety issues associated with the use of whole virus.

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**Keywords**

DENV; Dengue Virus Envelope Protein; DENV Envelope Protein; Dengue virus; DENV-1 E Protein; DENV-1

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