

## Recombinant DENV Envelope Protein (Met281-Gly679) (Type 2, Strain New Guinea C/PUO-218 hybrid), His-tagged

**Cat. No.** E-728D    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>     | Recombinant DENV (Dengue virus) E (Envelope) Protein (type 2, strain New Guinea C/PUO-218 hybrid) E (AAC59274.1, with mutation Thr 76 Arg, Gln 77 Glu, Trp 101 Arg, Leu 107 Arg) (Met281-Gly679) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus. |
| <b>Species</b>              | DENV                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>               | Insect Cells                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>        | Met281-Gly679                                                                                                                                                                                                                                                                                                                       |
| <b>Predicted N Terminal</b> | Met                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>                 | Lyophilized from sterile 20 mM Tris, 300 mM NaCl, pH 8.5, 10 % glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                   |
| <b>Molecular Mass</b>       | The recombinant Dengue virus (DENV) (type 2, strain New Guinea C/PUO-218 hybrid) E consists of 410 amino acids and predicts a molecular mass of 45.7 kDa.                                                                                                                                                                           |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                            |
| <b>Purity</b>               | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                   |

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| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                          |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                           |
| <b>Shipping</b>       | <p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.</p> <p>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.</p> |