

Recombinant ZIKV (Strain Zika SPH2015) E (Envelope) Protein (Ile291-Thr399 and Glu426-Gly485 and Ser576- Gly592) (Domain I), His-MBP-tagged

Cat. No. E-773Z Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant ZIKV (Zika virus) (Strain Zika SPH2015) E (Envelope) Protein (ALU33341.1) (Ile291-Thr399 and Glu426-Gly485 and Ser576- Gly592) was produced by E. coli expression system. This protein was expressed with a N-terminal polyhistidine-tagged MBP tag at the N-terminus (his-MBP).
Species	Zika
Source	E.coli
ProteinLength	Ile291-Thr399 and Glu426-Gly485 and Ser576- Gly592
Description	Envelope of Zika virus is responsible for receptor binding and membrane. Analysis of the envelope protein of Zika, from Brazilian Zika SPH215 (KU321639), indicates predicted B and T cell epitopes in peptides that are consistent to those reported for dengue, YFYF and Japanese encephalitis. The envelope Domain II B cell epitope, to which much dengue non-neutralizing cross reaction is attributed, is also conserved also in Zika virus, consistent with prior field observations of cross reactivity with dengue and YF. Domain III of the Zika envelope protein, likely the main specific neutralizing domain, is distinct from recent Brazilian dengue isolates and a recent Peruvian YF isolate (GQ379163), 76% of possible major histocompatibility complex class (MHC) I and MHC II binding peptides and potential B cell linear epitopes are unique to Zika virus.

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Predicted N Terminal	Met
Form	Lyophilized from sterile 250 mM NaCl, 50 mM Tris, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant Zika virus (strain Zika SPH2015) E consists of 523 amino acids and predicts a molecular mass of 57.2 kDa.
Purity	> 75 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.