Recombinant DENV (type 1, strain US/Hawaii/1944) Envelope protein, His-tagged

Cat. No. Envelope-356D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DENV Envelope protein (type 1, Val580-Lys680), fused to His-tag at C-terminus, was expressed in Baculovirus-Insect Cells.
Species	DENV
Source	Insect Cells
ProteinLength	112
Description	The protein plays a role in virus budding by binding to the cell membrane and gathering the viral RNA into a nucleocapsid that forms the core of a mature virus particle. During virus entry, may induce genome penetration into the host cytoplasm after hemifusion induced by the surface proteins. Can migrate to the cell nucleus where it modulates host functions. Overcomes the anti-viral effects of host EXOC1 by sequestering and degrading the latter through the proteasome degradation pathway.
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10% glycerol. Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant Dengue virus (DENV)(type 1, strain US/Hawaii/1944) E consists of 112 amino acids and predicts a molecular mass of 12.4 kDa.
Endotoxin	<1.0 EU per μg protein as determined by the LAL method.

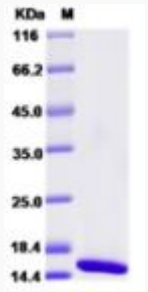
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Purity	>95% as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20 centigrade to -80 centigrade Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein 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 0.2mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	POLY
Official Symbol	POLY
Synonyms	polyprotein gene; E Protein; DENV
Gene ID	5075725
Protein Refseq	NP_059433.1
UniProt ID	P17763

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SDS-PAGE of Envelope-356D	

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