

Recombinant DENV3 envelope protein, His-tagged

Cat. No. D3-03D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DENV3 envelope protein (amino acids 279-677 with Gly6 linker) was fused to His-tag at C-terminus and expressed in mammalian HEK293 cells using state-of-the-art expression and purification techniques.
Species	DENV3
Source	HEK293
ProteinLength	398
Description	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. 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. 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 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

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(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. The first dengue vaccine, Dengvaxia (CYD-TDV) by Sanofi Pasteur, was first licensed in December, 2015, in Mexico. Several other vaccine candidates are in clinical or pre-clinical development.

Form	20mM Tris-HCl, 185mM NaCl, pH7.8.
Molecular Mass	55 kDa
Purity	>95% purity by SDS-PAGE.
Storage	Short term: +2 centigrade to +8 centigrade; Long term: -80 centigrade. Long term storage above -80 centigrade may result in aggregate formation and/or degradation. Can be frozen, but avoid multiple freeze/thaw cycles.
Concentration	0.18 mg/ml

GENE INFORMATION

Gene Name	POLY
Official Symbol	POLY
Synonyms	polyprotein gene
Gene ID	5075727
Protein Refseq	YP_001621843.1

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UniProt ID**Q6YMS3****SDS-PAGE of D3-03D**

Reducing SDS-PAGE gel showing purified Dengue virus serotype 3 envelope protein. The protein migrates as a single band of approximately 55 kDa.

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