

Recombinant DENV3 DIII envelope protein, His-tagged

Cat. No. D3-01D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DENV3 DIII envelope protein was fused to His-tag and expressed in E.coli.
Species	DENV3
Source	E.coli
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. Dengue infection is caused by any one of four related Dengue virus serotypes DENV1-4, which are transmitted by mosquitoes and co-circulate in endemic areas. 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. There are no vaccines available to prevent dengue virus infection. Therefore, early diagnosis of dengue and dengue serotypes is a vital step in patient management. Dengue virus envelope protein is a major structural glycosylated protein that forms homodimers on the virion surface. Each envelope protein is organised into three domains, the central domain DI, the dimerization domain DII and an immunoglobulin-like domain DIII. Envelope protein DIII is reported to be a receptor-recognition and

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binding domain, and an important target for the human immune response. The DIII domain is highly immunogenic and elicits the production of neutralising antibodies against the wild-type virus.

Form	20mM Carbonate buffer, pH 9.6.
Molecular Mass	11.5 kDa
Purity	>95% as determined by SDS-PAGE.
Applications	ELISA, Western blot, Lateral flow assays. For Research Use Only.
Storage	Protein is shipped on dry ice. Upon arrival, store at -80 centigrade.

GENE INFORMATION

Gene Name	POLY
Official Symbol	POLY
Synonyms	polyprotein gene
Gene ID	5075727
Protein Refseq	YP_001621843.1
UniProt ID	Q6YMS3

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