

Recombinant DENV4 VLP (400-495aa)

Cat. No. VLP-09D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dengue Virus serotype 4 virus-like particle recombinant antigen consisting of Envelope, pre-Membrane and Membrane protein produced in 293 human cells. The Cterminal 20% of the dengue Envelope protein was replaced by the corresponding Japanese encephalitis virus SA-14 sequence (Envelope protein amino acids 400-495). The replaced sequence corresponds to the transmembrane and intraparticle portion of the protein.
Species	DENV4
Source	HEK293
ProteinLength	400-495
Description	Virus-Like Particles (VLPs) are an emerging vaccine technology. VLPs consist of protein shells comprising outer proteins specific to the virus in question. VLPs are more representative of how viral antigens are presented in vivo and while they are highly immunogenic they are non-infectious as they lack the core genetic material of the virus. Another important advantage of VLPs is that they more effectively activate key aspects of the immune response to achieve potent immune stimulation and to provide immunological memory. VLP-based vaccines have also shown to provide effective protection and are in current use for several diseases and in development for many others. 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

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caused by any one of four related viruses transmitted by mosquitoes. There are no vaccines available to prevent infection with dengue virus. Please click [here](#) for other serotypes of VLP: Serotype 1, Serotype 2, Serotype 3.

Form	Liquid
Purity	>95% by SDS-PAGE
Stability	At +4 centigrade: 1 week. At -80 centigrade: 1 year. Freezing: Can be frozen, but avoid multiple freeze-thaw cycles.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -80 centigrade
Storage Buffer	Dulbecco's PBS pH7.4, 30% sucrose
Shipping	Dry ice.

GENE INFORMATION

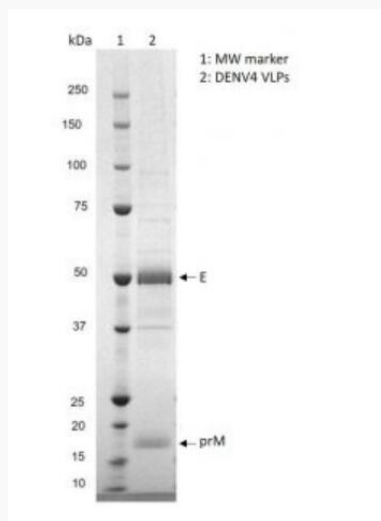
Official Symbol	VLP
Synonyms	VLP; Virus-Like Particles; VLPs

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SDS-PAGE



Non-reducing SDS-PAGE gel showing purified Dengue virus serotype 4 virus-like particles; envelope protein (E) at approx. 55 kDa, and prM protein running at approx. 17-18 kDa.