Recombinant DENV1 VLP (399-497aa)

Cat. No. VLP-06D **Lot. No.** (See product label)

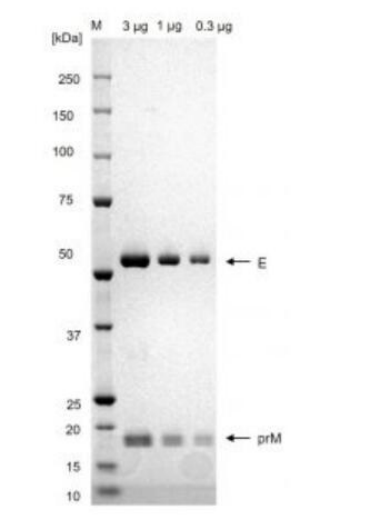
SPECIFICATION

Product Overview	Recombinant Dengue Virus serotype 1 virus-like particle recombinant antigen consisting of Envelope, pre-Membrane and Membrane protein produced in 293 human cells. The C-terminal 20% of the dengue Envelope protein was replaced by the corresponding Japanese encephalitis virus SA-14 sequence (Envelope protein amino acids 399-497). The replaced sequence corresponds to the transmembrane and intraparticle portion of the protein.
Species	DENV1
Source	HEK293
ProteinLength	399-497
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.
Purity	>95% by SDS-PAGE

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Stability	At +4 centigrade: 1 week At -80 centigrade: 1 year Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short term: +2 to +8 centigrade Long Term: -80 centigrade
Concentration	0.56 mg/mL
Storage Buffer	10mM sodium phosphate, 20mM sodium citrate, 154mM sodium chloride, pH7.4.
Shipping	Dry ice.

GENE INFORMATION

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

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Non-reducing SDS-PAGE gel showing purified Dengue virus serotype 1 virus-like particles; envelope protein (E) at approx. 55 kDa, and prM protein running at approx. 18 kDa.

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