Recombinant Chikungunya Virus E2 Envelope Protein, hFc-tagged

Cat. No. CHI-055 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Chikungunya Virus E2 Envelope protein is a unique product that has been developed in response to the need for high purity, properly assembled and glycosylated Chikungunya virus antigens for use in the development of Chikungunya virus diagnostics and in vaccine development and research / development (including use as an immunogen). Chikungunya Virus E2 Envelope protein is produced in human cell lines using state-of-the-art expression techniques. This protein is prepared with a mouse IgG2a Fc-tag, and is purified by Protein A affinity chromatography. We also offer the protein with a human IgG1 Fc-tag for those customers where a human Fc-tag may interfere with their assays.
Tag	His
Background	It has been reported that E2 protein may offer higher sensitivity in serological assays when compared to E1 protein (Cho et al, 2008). Chikungunya virus is a member of the genus Alphavirus in the family Togaviridae. Chikungunya fever is a mosquito-borne disease first identified in Tanzania in 1953. Since 2004 there have been extensive outbreaks in Africa and Asia, and in 2013 the first cases were identified in the Caribbean, and by September 2014 more than 650,000 cases had been reported in the Americas. Chikungunya fever usually starts 2–4 days after chikungunya virus infection, with clinical symptoms including high fever, rash, headache, vomiting, myalgia, and severe joint pain. Because the virus is transmitted by the same mosquitos that transmit Dengue Virus and Zika Virus, and the clinical symptoms of infection with the viruses are also similar,

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	it is important to be able to distinguish diagnostically between the different infections. Because the use of aspirin and other NSAIDs can increase the risk of haemmorhage in Dengue fever, patients should be treated as having Dengue fever until a diagnosis of Dengue fever has been excluded.
Purity	0.95
Sequence Strain	Senegal 37997
Formulation	20mM HEPES, pH7.0, 300mM NaCl, 0.25% Triton X-100
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Applications	ELISA, WB
Storage	Short Term Storage: +4 centigrade Long Term Storage: -80 centigrade
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease

GENE INFORMATION

Synonyms	Chikungunya Virus E2 Envelope

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