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32-5641: Recombinant Chikungunya Wild Type E1

Description

Source: Insect cells. Recombinant Chikungunya Wild Type E1 produced in Insect Cells is a polypeptide chain containing amino acids 1-415 and having a molecular weight of approximately 50kDa.CHIKV E1 is purified by proprietary chromatographic technique. Chikungunya virus (CHIKV) is an arthropod-born virus which is a member of the Alphavirus genus belonging to the Togaviridae family. CHIKV nucleocapsid is comprised of a single-stranded plussense RNA genome of approximately 11.8 kb. The CHIKV virion envelope consists of a lipid bilayer derived from the plasma membrane from the host cell, multiple copies of 2 major virus encoded glycoproteins E1 and E2, and a small 6K peptide. Proteins E1 and E2 both have a molecular weight of roughly 50kDa and form a heterodimer anchored in the membrane. Chikungunya virus infection causes an illness with symptoms similar to those of the dengue fever with an acute febrile phase lasting only 2-5 days, followed by a prolonged arthralgic disease affecting the joint extremities. Recent Chikungunya virus outbreaks presented a prospect for genetic analysis of patients with the illness, revealing a point mutation at the amino acid 226 (Ala mutated to Val) of the E1 gene. This point mutation was confirmed to be responsible for an improved capacity of CHIKV strains to infect and replicate in the Aedes albopictus, enabling virus transmission to a naive human population.

Product Info

Amount: $10 \mu g$

Purification: Protein is >95% pure as determined by 12.5% SDS-PAGE.

Content: CHIKV E1 protein solution in 1xD-PBS, pH7.4, 0.1% Thimerosal, 5mM EDTA, 1µg/ml of Leupeptin,

Aprotinin and Pepstatin A.

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods

Storage condition: of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or

BSA). Avoid multiple freeze-thaw cycles.

