

Recombinant Chikungunya CHIKVgp2 protein

Cat. No. CHIKVgp2-25C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Chikungunya
Source	Insect Cells
ProteinLength	amino acids 1-415
Description	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 <i>Aedes albopictus</i>, enabling virus transmission to a naive

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	human population.
Form	Sterile filtered colorless solution. CHIKV E1 protein solution in 1xD-PBS, pH7.4, 0.1% Thimerosal, 5mM EDTA, 1g/ml of Leupeptin, Aprotinin and Pepstatin A.
Molecular Mass	50kDa
Purity	Protein is >95% pure as determined by 12.5% SDS-PAGE.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	CHIKVgp2 contains C, E3, E2, 6K, and E1 proteins [Chikungunya virus]
Official Symbol	CHIKVgp2
Synonyms	CHIKVgp2; contains C, E3, E2, 6K, and E1 proteins; E1 envelope glycoprotein; Structural polyprotein
Gene ID	956308

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Protein Refseq	NP_690589.2
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UniProt ID	Q8JUX5
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