

Recombinant Chikungunya CHIKVgp2 protein

Cat. No. CHIKVgp2-26C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chikungunya E2 produced in E.coli having a molecular weight of 38kDa (migrates at 38-40kDa on 10% SDS-PAGE).
Species	Chikungunya
Source	E.coli
Description	Chikungunya virus (CHIKV) is an arthropod-borne virus which is a member of the Alphavirus genus belonging to the Togaviridae family. CHIKV nucleocapsid is comprised of a single-stranded plus-sense 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 human population.
Form	Sterile filtered colorless solution. Sterile Filtered solution containing PBS and 25mM

 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

	arginine.
Molecular Mass	38kDa
Purity	Protein is >95% pure as determined by SDS-PAGE.
Applications	Major application of this antigen is detection of Chikunrunya specific IgGIgM by rapid test device.
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	CHIKV E2 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent 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
Protein Refseq	NP_690589.2

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