

Product Name: Recombinant CHIKV Spike glycoprotein E1 Protein, C-F
Catalog #: PHV60001

Summary

Name	CHIKV Spike glycoprotein E1
Purity	>90% as determined by SDS-PAGE.
Endotoxin level	Please contact with the lab for this information
Construction	Recombinant CHIKV Spike glycoprotein E1 Protein is produced by our Mammalian expression system and the target gene encoding Tyr810-Lys1221 is expressed with a hFc-tag at the C-terminus.
Accession #	Q8JUX5
Host	Mammalian cells
Species	Chikungunya virus (CHIKV)
Predicted Molecular Mass	73.11 kDa
Formulation	Lyophilized from a solution of PBS, pH 7.4, 1mM EDTA
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at -70°C/-20°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Alternative Names

CHIKV Spike glycoprotein E1

Background

Chikungunya virus (CHIKV) is a mosquito-borne alphavirus responsible for Chikungunya fever, a disease marked by fever, rash, and joint pain. The E1 envelope glycoprotein, a 47 kDa class II fusion protein, plays a critical role in viral entry by mediating low pH-triggered membrane fusion within host endosomes. It forms heterodimers with E2 glycoproteins, assembling into spike trimers on the viral surface that facilitate host cell attachment and infection. Due to its essential function in viral infectivity, the E1 protein is widely used in studies of viral entry, antibody development, vaccine design, and diagnostic assay optimization.

Note

For Research Use Only , Not for Diagnostic Use.