

Chikungunya Mutant E1 Recombinant Protein | CHIKV recombinant protein

Recombinant Chikungunya Mutant (A226V) E1

CATALOG # AAA38954	HOST Insect Cells
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PRODUCT SYNONYMS

Chikungunya Mutant E1; Recombinant Chikungunya Mutant (A226V) E1; CHIKV Mutant; Chikungunya Mutant (A226V) E1 Recombinant; CHIKV recombinant protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Purity/Purification	Protein is >=95% pure as determined by 12.5% SDS-PAGE
Form/Format	CHIKV Mutant protein solution in 1xD-PBS, pH7.4, 0.1% Thimerosal, 5mM EDTA, 1 ug/ml of Leupeptin, Aprotinin and Pepstatin A. Sterile filtered colorless solution.
Sequence	YEHVTVIPNT VGVYPKTLVN RPGYSPMVLE MELLSTLEP TSLDYITCE YKTVIPSPYV KCCGTAECKD KNLPDYSCKV FTGVYPFMWG GAYCFDAEN TQLSEAHVEK SESCKTEFAS AYRAHTASAS AKLRVLYQGN NITVTAYANG DHAVTVKDAK FIVGPMSSAW TPFDNKIVVY KGDVYNMDYP PFGAGRPGQF GDIQSRTPE KDVYANTQLV LQRPVAGTVH VPYSQAPSGF KYWLKERGAS LQHTAPFGCQ IATNPVRAVN CAVGNMPISI DIPEAAFRV VDAPSLTMS CEVPACTHSS DFGGVAIKY AASKKGKCAV HSMTNAVIR EAEIEVEGNS QLQISFSTAL ASAEFRVQVC STQVHCAAEC HPPKDHIVNY PASHTTLGQD ISATAMSWVQ KITGG
Sequence Length	923
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.

ADDITIONAL INFORMATION

Related Product Information for CHIKV recombinant protein	Description: Recombinant Chikungunya Mutant (A226V) E1 produced in Insect Cells is a polypeptide chain containing amino acids 1-415, however at position 226 the Alanine of the wild-type CHIKV E1 gene was mutated to Valine. The molecular weight of the CHIKV Mutant is approximately 50kDa. The E1 protein is C-terminal part of E2-6K-E1 protein region. CHIKV Mutant is purified by proprietary chromatographic technique. Introduction: 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 Categories/Family for CHIKV recombinant protein	Viral Antigens; CHIKUNGUNYA VIRUS; Viral Antigens; Chikungunya

NCBI AND UNIPROT INFORMATION

UniProt Accession #	G0LWX6
Molecular Weight	101,424 Da
UniProt Protein Name	Structural polyprotein, E2-6K-E1 region
UniProt Gene Name	E2-6K-E1
UniProt Entry Name	G0LWX6_CHIKV

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e2-6k-e1-recombinant-protein-insect-cells/38954>