

Chikungunya E1 Recombinant Protein | CHIKV E1 recombinant protein

Recombinant Chikungunya E1

CATALOG #
AAA39168

HOST
Escherichia Coli

PRODUCT SYNONYMS

Chikungunya E1; Recombinant Chikungunya E1; CHIKV E1; Chikungunya E1 Recombinant; CHIKV E1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli
Purity/Purification	Protein is >90% pure as determined by SDS-PAGE. Purified by proprietary chromatographic technique
Form/Format	Sterile Filtered solution (1.1 mg/mL) containing PBS
Physical appearance	Sterile filtered solution
Preparation and Storage	CHIK E1 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles

ADDITIONAL INFORMATION

Related Product Information for CHIKV E1 recombinant protein	Description: Recombinant Chikungunya E1 produced in E Coli having a molecular weight of 48kDa. Introduction: Chikungunya is an infection caused by the chikungunya virus which is passed to humans by two species of mosquito of the genus Aedes: A. albopictus and A. aegypti. Animal reservoirs of the virus include monkeys, birds, cattle, and rodents. The features of the disease are a sudden onset of fever 2-4 days after exposure. The fever typically lasts 2-7 days, while the associated joint pains usually last weeks or months but sometimes years. The mortality rate is a little less than 1 in 1, 000. The disease has occurred in outbreaks in Asia, Europe and the Americas since 2004. CHIKV is a single-stranded positive-sense RNA genome, 11, 800 nts long which encodes 2 open reading frames. The nucleocapsid is tightly enveloped by a host-derived lipid bilayer (envelope) supporting the virus-encoded envelope proteins. 80 glycoprotein spikes are C- terminally anchored within the viral envelope. The structural polyprotein is translated from a viral sub genomic mRNA, while as the 5 structural proteins (capsid, E3, E2, 6K, E1) are translated as a single polyprotein, from which capsid (C) is cleaved off to encapsidate. The envelope polyprotein precursor E3-E2-6K-E1 is translocated to the endoplasmatic reticulum. Polyprotein is processed by host signalases, resulting in E3, E2 & E1 forming viral hetero-trimeric spikes. The viral spikes majorly contains E2 and E1 facilitate cell receptor recognition, cell entry thru pH-dependent endocytosis and support viral budding.
Product Categories/Family for CHIKV E1 recombinant protein	Viral Antigens; CHIKUNGUNYA VIRUS; Viral Antigens; Chikungunya; CHIKV E1

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/chikungunya-e1-recombinant-protein-escherichia-coli/39168>