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32-13620: CHIKV E2

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 &Â E1 forming

viral hetero-trimeric spikes. The viral spikes majorly contains E2 and E1 facilitate cell receptor recognition,

Alternative Name:

Description

Source: Escherichia Coli. Sterile filtered colorless solution.

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cell entry thru pH-dependent endocytosis and support viral budding.

Recombinant Chikungunya E2 produced in E.coli having a molecular weight of 38kDa (migrates at 38-40kDa on 10% SDS-PAGE).

Product Info

Amount : $100 \mu g / 0.5 mg$

Purification: Protein is >95% pure as determined by SDS-PAGE. **Content:** Sterile Filtered solution containing PBS and 25mM K2CO3.

Storage condition: CHIKV E2 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent

freeze thaw cycles.