

Chikungunya virus E protein ectodomain (CHIKV-E)

Catalog: NCP0149

Tag: His-tag

Source: E. coli Expression

BackGround:

Chikungunya virus (CHIKV) belongs to the Semliki Forest antigenic group of the genus Alphaviridae, which includes other arthritogenic alphaviruses, such as o'nyong-nyong, Ross River, Barmah Forest, and Mayaro viruses. Its genome is closely related to that of o'nyong-nyong virus, and consists of a single 11.8-kbp strand of positive sense RNA, which encodes a 2472 amino acid nonstructural and a 1244 amino acid structural polyprotein.³ The polyproteins give rise to the four non-structural proteins (nsP1-4) that make up the viral replication machine, and five structural proteins. Each spherical viral particle is approximately 70 nm in diameter and is comprised of a strand of genomic RNA, encapsidated by capsid (C) proteins, surrounded by a host cell-derived lipid bilayer spiked with heterodimers of envelope proteins E1 and E2.⁴ The other two structural proteins, 6K and E3, are leader peptides for E1 and E2, respectively, and are not observed in abundance in the mature virion.

Product:

Inclusion body; 0.5mol Urea, PH=8

Molecular Weight:

1095bp; 40kDa

Entrez-Gene/ Swiss-Prot:

ABN04192.1

Purification&Purity:

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Applications:

Reseach

Storage&Stability:

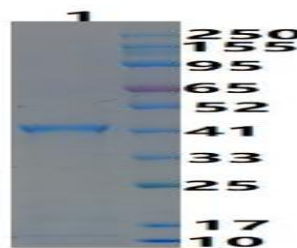
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Information:

Carrier: pET30a-CHIKV-E-His(C-term)

Virus: structural polyprotein [Chikungunya virus]

DATA:



Chikungunya virus E protein ectodomain, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

Note:

For research use only, not for use in diagnostic procedure.

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