

Recombinant Zika flavivirus polyprotein gene protein, His-tagged

Cat. No. flavivirus polyprotein gene-292Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The E.Coli derived Zika Envelope domain-III is a non-glycosylated polypeptide chain having a molecular mass of 11kDa and fused to a His tag at N-terminus.

Species

Zika

Source

E.coli

Description

Zika virus (ZIKV) belongs to the family Flaviviridae and the genus Flavivirus, it is transmitted by daytime-active Aedes mosquitoes, such as *A. aegypti* and *A. albopictus*. The Zika virus is related to the dengue, yellow fever, Japanese encephalitis, and West Nile viruses. Much like the other flaviviruses, Zika virus is enveloped and icosahedral and has a nonsegmented, single-stranded, positive-sense RNA genome. Zika fever is an infection, which often causes no symptoms or only mild ones, like a mild form of dengue fever, and it is treated by rest. As of February 2016, there has been mounting evidence that Zika fever in pregnant women can cause abnormal brain development in their fetuses by mother-to-child transmission, which may result in miscarriage or microcephaly, however it is not yet known whether Zika virus causes microcephaly. Furthermore, a connection has been established with neurologic conditions in infected adults, including Guillain–Barre syndrome.

Form

Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10.

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Molecular Mass	11kDa
Purity	Greater than 95.0% as determined by SDS-PAGE.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Zika envelope although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.
Solubility	It is recommended to reconstitute the lyophilized Zika Envelope Domain-3 protein in sterile 18M-cm H ₂ O at 1mg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	flavivirus polyprotein gene flavivirus polyprotein [Zika virus]
Official Symbol	flavivirus polyprotein gene
Synonyms	flavivirus polyprotein; flavivirus polyprotein; capsid protein C; membrane glycoprotein precursor M; envelope protein E; nonstructural protein NS1; nonstructural protein NS2A; nonstructural protein NS2B; nonstructural protein NS3; nonstructural protein NS4A; nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; anchored capsid protein C; protein pr; membrane glycoprotein M; protein 2K
Gene ID	7751225
Protein Refseq	YP_002790881.1

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UniProt ID

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