

Recombinant Zika (ZikaSPH2015) flavivirus polyprotein gene protein, His-tagged

Cat. No. flavivirus polyprotein gene-295Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.Coli derived Recombinant Zika NS1 protein (Strain: ZikaSPH2015) having an Mw of 45kDa is derived from the full length Zika NS1 protein. The Zika NS1 protein is fused to a 6xHis tag at C-terminus and purified by proprietary chromatographic technique.
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 <i>A. aegypti</i> and <i>A. albopictus</i> . 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. Since the 1950s, Zika virus has been detected only within a narrow equatorial belt from Africa to Asia. Between the years 2013 and 2014, Zika virus has spread eastward across the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Pacific Ocean to French Polynesia, New Caledonia, the Cook Islands, and Easter Island, and in 2015 to Mexico, Central America, the Caribbean, and South America, where the Zika outbreak has reached pandemic levels.

Form

Sterile Filtered solution. Zika NS1 protein solution contains PBS, 25mM arginine and 1M urea.

Molecular Mass

45kDa

Purity

Zika NS1 protein is >95% pure as determined by SDS-PAGE.

Applications

Each laboratory should determine an optimum working titer for use in its particular application.

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 NS1 protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Shipping

Ice Packs

Full Length

Full L.

GENE INFORMATION

Gene Name

flavivirus polyprotein gene flavivirus polyprotein [Zika virus]

Official Symbol

flavivirus polyprotein gene

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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](#)

UniProt ID [Q32ZE1](#)

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