

Recombinant Zika Envelope Protein (250-410), C-6xHis-tagged

Cat. No. ZIK-442 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E. coli derived Recombinant Zika Envelope protein (250-410 a.a., Strain: ZikaSPH2015) having an Mw of 19kDa is designed with minimal level cross-reaction to other Flavivirus such as dengue and West Nile viruses. The Zika Envelope protein is fused to a 6xHis tag at C-terminus and purified by proprietary chromatographic technique.
Species	Zika
Source	E.coli
ProteinLength	250-410
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. Since the

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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 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.
Molecular Mass	19 kDa
Purity	> 95% pure as determined by SDS-PAGE.
Applications	Rapid test and Immunoassay.
Notes	Our 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 protein although stable at 4 centigrade for 1 week, should be stored below -18 centigrade. Please prevent freeze thaw cycles.
Storage Buffer	Zika Envelope protein solution contains 25mM Tris-Base and 25mM k2co3.
Shipping	Shipped with Ice Packs

GENE INFORMATION

Gene Name	POLY polyprotein [Zika virus]
Official Symbol	POLY

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Synonyms	POLY; polyprotein; polyprotein; capsid protein C; membrane glycoprotein precursor prM; 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 ancC; protein pr; membrane glycoprotein M; protein 2K
Gene ID	7751225
Protein Refseq	YP_002790881
UniProt ID	Q32ZE1