



Recombinant Zika Virus Envelope protein [His] (DAGA-048)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	<p>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.</p> <p>The Zika Envelope protein is fused to a 6xHis tag at C-terminus and purified by proprietary chromatographic technique.</p>
Antigen Description	<p>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 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.</p>
Purity	Zika Envelope protein is >95% pure as determined by SDS-PAGE.
Conjugate	His
Format	Sterile Filtered solution.
Concentration	Batch dependent - please inquire should you have specific requirements.

Size	100 µg, 500 µg, 1 mg
Buffer	Zika Envelope protein solution contains PBS and 45mM arginine.
Preservative	None
Storage	Zika Envelope protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

BACKGROUND

Keywords	Zika virus; ZIKV; Zika virus NS1; ZIKV NS1; Zika virus NS1 protein 1; Zika virus Non-Strucural protein 1; Non-Strucural protein 1; Flaviviridae; Flavivirus; ZIKV Envelope; Zika virus Envelope
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