

Recombinant Zika Virus NS1 Protein, His-tagged

Cat. No. ZIK-637 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Zika virus NS1 protein 1 (Non-Structural protein 1) has been manufactured in response to the unmet need for highly purified, concentrated protein for use in serological based diagnostic assays. Zika virus NS1 protein is engineered in human cells using state-of-the-art expression and purification techniques.

Tag

His

Background

Zika virus is an emerging disease that is spread by Aedes mosquitoes. The virus was first isolated in Central Africa, and has since spread to South Asia and more recently to South America. It is a member of the flavivirus family, and is structurally closely related to viruses such as Dengue Fever Virus. Outbreaks were reported in Micronesia in 2007 and in Brazil in 2015, confirming at least 13 autochthonous infections. The Zika virus outbreak in Brazil in 2016 has gained world-wide attention, and has been linked to an increasing number of microcephaly cases. In April 2016 the Centers for Disease Control, in the USA, confirmed the link between Zika virus infection of the fetus with microcephaly.

Clinically Zika virus can cause mild fever, rash, myalgia, arthralgia and headaches, with one in four infected individuals being asymptomatic. Due to similar symptoms Zika virus infected individuals can easily be mis-diagnosed as a dengue infection and vice-versa. In addition, Zika virus has been implicated in causing microcephaly through transmission in utero. There is no vaccine or specific treatment available for Zika virus.

Analysis of Zika virus sequences from infected patients have shown that the strain circulating in South America in 2015 is most closely related to the strains circulating in

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Asia during outbreaks in 2007 and 2013-14. The South American strain was first isolated and sequenced from a patient in Suriname, and hence is known as the Zika Suriname strain. The Zika virus NS1 protein in the Suriname strain differs slightly from that in the "original" strain isolated in Uganda in 1947.

Purity	>90% by SDS-PAGE
Sequence Strain	Suriname Z1106033
Formulation	DPBS pH 7.4
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: +15 centigrade to +20 centigrade Long Term Storage: -80 centigrade
Concentration	0.71 mg/mL (Specification: 0.4-1.0 mg/mL by BCA assay)
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	Zika Virus NS1 (Suriname Strain)

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