

Recombinant Zika virus (strain Zika SPH2015) NS1 protein, His-tagged

Cat. No. NS1-948Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Zika virus(strain Zika SPH2015) NS1(Val796-Leu1157) fused with His tag at C-terminal was expressed in Insect cells.
Species	Zika
Source	Insect Cells
ProteinLength	Val796-Leu1157
Description	Zika virus (ZIKV) is a member of the virus family Flaviviridae and the genus Flavivirus, transmitted by daytime-active Aedes mosquitoes, such as <i>A. aegypti</i> and <i>A. albopictus</i>. Its name comes from the Zika Forest of Uganda, where the virus was first isolated in 1947. Zika virus is related to dengue, yellow fever, Japanese encephalitis, and West Nile viruses. The infection, known as Zika fever, often causes no or only mild symptoms, similar to a mild form of dengue fever. It is treated by rest. Since the 1950s, it has been known to occur within a narrow equatorial belt from Africa to Asia. As of 2016, the illness cannot be prevented by drugs or vaccines. As of February 2016, there is evidence that Zika fever in pregnant women is associated with abnormal brain development in their fetuses through mother-to-child transmission of the virus, which may result in miscarriage or microcephaly.
Predicted N Terminal	Val 796
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % gly.

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	1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. 2. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant the Zika virus (strain Zika SPH2015) NS1 consists of 373 amino acids and predicts a molecular mass of 42.6 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.