

Recombinant Zika virus flavivirus polyprotein gene protein, His & Avi-tagged, Biotinylated

Cat. No. flavivirus polyprotein gene-1824Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview Biotinylated Zika virus NS1, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 796 - Ser 1148 (Accession # ALU33341.1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

Species Zika

Source HEK293

ProteinLength AA Val 796 - Ser 1148

Description Zika virus (ZIKV) is a member of the virus family Flaviviridae and the genus Flavivirus, transmitted by daytime-active Aedes mosquitoes, such as A. aegypti and A. albopictus. 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.

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Predicted N Terminal	Val 796
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	This protein carries an Avi tag at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 43.3 kDa. The protein migrates as 46-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	flavivirus polyprotein gene flavivirus polyprotein [Zika virus]
Official Symbol	flavivirus polyprotein gene
Synonyms	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;

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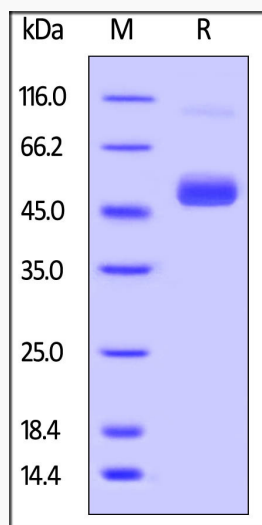
nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; anchored capsid protein C; protein pr; membrane glycoprotein M; protein 2K

Gene ID [7751225](#)

Protein Refseq [YP_002790881.1](#)

UniProt ID [Q32ZE1](#)

SDS-PAGE



Biotinylated Zika virus NS1, His Tag on SDS-PAGE under reducing (R) condition.
The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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