

Recombinant DENV1 NS1 Protein

Cat. No. NS1-03D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Dengue virus serotype 1 NS1 protein is a recombinant protein, cloned and expressed in insect cells with greater than 95% purity. Protein is purified using a proprietary chromatographic technique.
Species	DENV1
Source	Insect Cells
Description	Dengue virus is a globally distributed flavivirus with 4 distinct serotypes (DENV1, 2, 3 and 4) and is primarily transmitted by the Aedes aegypti mosquito, which is found throughout the tropical and subtropical regions of over 100 countries. DENV poses a significant worldwide public health threat with approximately 2.5 to 3 billion people residing in DENV endemic areas, among whom 100 to 200 million individuals will be infected and approximately 30,000 patients will succumb to the disease, annually. NS1 is produced during all four DENV infections and is released as a hexamer circulating in great quantities in acute-phase blood of infected humans. In diagnostics, DENV NS1 is used as an antigen test for rapid detection on the first day of fever, before antibodies appear some 5 or more days later. It has emerged as an alternative biomarker to both serologic and molecular based techniques for diagnosis of acute DENV infection.
Form	Liquid
Purity	> 95%

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Applications	Immunoassay development or other applications.
Storage	Short Term Storage: -20 centigrade Long Term Storage: -80 centigrade Multiple freeze/thaw cycles are to be avoided.
Storage Buffer	PBS, pH 7.4 with 0.05% sodium azide as preservative
Shipping	Dry Ice

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