

## Recombinant Dengue virus type 1 (strain Singapore / S275 /1990) NS1 protein, His-tagged

Cat. No. NS1-10D Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Dengue virus type 1 (strain Singapore / S275 /1990) NS1 protein, fused with His tag, was expressed in HEK293.

**Species** DENV1

**Source** HEK293

**Description** Dengue virus (DENV) is a single-stranded positive-sense RNA virus that causes dengue fever, belonging to the Flaviviridae family. A total of four antigenically distinct serotypes (DENV1, DENV2, DENV3 and DENV4) have been identified with different manifestations of clinical symptoms despite sharing 65% similarities. DENV non-structural protein 1 (NS1), one of the 7 non-structural proteins in DENV, is a highly conserved 48-kDa glycoprotein with serotype-specific epitopes that enable differentiation of DENV serotypes. NS1 is the only protein that is continuously secreted by infected host cells. NS1 is secreted in a hexamer form, which is composed of three dimers with a detergent-sensitive hydrophobic central cavity that carries a cargo of 70 lipid molecules. The NS1 can be detected in the serum of patients from the onset of symptoms, which serves as a more useful diagnostic marker for the early detection of DENV. Furthermore, DENV NS1 plays a pathogenic role in vascular leakage.

**Form** Phosphate Buffered Saline,5%mannital,0.05% Tween20, pH7.4

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<b>Molecular Mass</b>	41.17 kDa
<b>Purity</b>	>95% pure (SDS-PAGE).
<b>Storage</b>	For long term storage, the product should be stored at -20°C or lower. Please avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	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.

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