

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% mannitol, 0.05% Tween20, pH7.4

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

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