# 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 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **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. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA