

## NS1 Protein, Dengue virus 1 (HEK293, His)

Cat. No.:	HY-P75290
Synonyms:	DENV-NS1 Protein; DENV; Dengue virus (DENV) (type 1, strain US/Hawaii/1944) DENV-NS1 Protein
Species:	Virus
Source:	HEK293
Accession:	ACF49259 (D776-A1127)
Gene ID:	/
Molecular Weight:	Approximately 42.2 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The NS1 protein assumes a pivotal role in virus budding by binding to the cell membrane, facilitating the assembly of the viral RNA into a nucleocapsid that forms the core of a mature virus particle. During virus entry, NS1 may induce genome penetration into the host cytoplasm following hemifusion induced by surface proteins. Notably, NS1 exhibits the ability to migrate to the cell nucleus, where it modulates host functions. Additionally, NS1 counteracts the antiviral effects of host EXOC1 by sequestering and degrading EXOC1 through the proteasome degradation pathway. Furthermore, NS1 disrupts RNA silencing by interfering with host Dicer, highlighting its multifaceted role in manipulating both viral and host cellular processes throughout the infection cycle.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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