

Recombinant Dengue Virus Serotype 1 NS1 Protein, His-tagged

Cat. No. DEN-167 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Dengue Virus Serotype 1 NS1 protein has been manufactured in response to the unmet need for highly purified, concentrated proteins for use in vaccine development (including use as an immunogen) and serological based diagnostic assays. Dengue Virus Serotype 1 NS1 protein is engineered on human cell lines using state-of-the-art expression techniques.

Tag

His

Background

The resultant hexameric presentation is believed to be the biologically active form of NS1 involved in key aspects of dengue pathogenesis. DENV1 NS1 protein is purified to a high degree, are in their native folding state, and possess all post-translational modifications. This advanced approach results in a product which delivers optimal antigenicity due to its human origin.

With more than one-third of the world's population living in areas at risk of transmission, dengue infection is a leading cause of illness and death in the tropics and subtropics (ref WHO for Guidelines for Diagnosis, Treatment, Prevention & Control, 2009) As many as 100 million people are infected yearly. Dengue is caused by any one of four related viruses transmitted by mosquitoes. There are no vaccines available to prevent infection with dengue virus.

NAC's Dengue Virus Serotype 1 NS1 protein has been well received by a wide number of researchers. The proteins are endorsed by the Division of Infectious Disease & Vaccinology at the University of California, Berkeley. Professor Eva Harris states: "For several of our dengue research projects at the University of California,

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Berkeley, we had been searching for purified DENV NS1 protein from all four serotypes which could offer the advantage of being derived from a mammalian expression system. In our hands, NAC's DENV NS1 proteins have performed extremely well in a range of applications and have helped advance our research program".

Based on the same developmental approach as used for Dengue Virus Serotype 1 NS1 protein, NAC also offers NS1 proteins for West Nile Virus and Yellow Fever. Used in combination, the proteins are ideal for determining the integrity of vaccines in development and well as serological based IVD's.

Purity	>95% (Specification: >= 95% by SDS-PAGE)
Sequence Strain	Nauru/Western Pacific/1974
Formulation	DPBS pH 7.4, 0.2m filter sterilised.
Stability	At +4 centigrade: 1 week. At -80 centigrade: 1 year.
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Applications	Suitable for use in ELISA, Western blotting and lateral flow assays.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -80 centigrade
Concentration	mg/mL (Specification: 0.4 – 1.0 mg/mL by BCA assay)
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of

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the material, including its disposal, in accordance with all regulations.

Type	Recombinant
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ClassID 1	Infectious Disease
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GENE INFORMATION

Synonyms	DENV Serotype 1 NS1
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