

Recombinant Dengue Virus Serotype 3 NS1 Protein, His-tagged

Cat. No. DEN-179 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Dengue Virus Serotype 3 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 3 NS1 protein is engineered on human cell lines using state-of-the-art expression techniques.

Tag

His

Background

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 3 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, 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".

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Based on the same developmental approach as used for Dengue Virus Serotype 3 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	Purified by ultracentrifugation
Sequence Strain	Human Cytomegalovirus. strain AD-169
Inactivation	Purified virus particles were lysed in 0.2% Triton X-100 in STE buffer. The lysate was tested by passage on permissive cells for 2 weeks yielding no CPE.
Formulation	0.2% Triton X-100, 10mM Tris-HCl, 1mM EDTA and 100mM NaCl, pH7.8
Storage	Store frozen at less than -20 centigrade, preferably -80 centigrade.
Concentration	Adjusted to 1 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 the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	DENV Serotype 3 NS1