

DENGUE VIRUS TYPE 2 NS1 ANTIGEN Recombinant Protein

RECOMBINANT DENGUE VIRUS TYPE 2 NS1 ANTIGEN

CATALOG #
AAA50545

APPLICATIONS
ELISA

PRODUCT SYNONYMS

DENGUE VIRUS TYPE 2 NS1 ANTIGEN; RECOMBINANT DENGUE VIRUS TYPE 2 NS1 ANTIGEN; DENGUE VIRUS TYPE 2 NS1 ANTIGEN recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	>95% by SDS PAGE analysis
Form/Format	Purified recombinant protein with a C-terminal 6 x His-tag - liquid.
Concentration	Approximate Protein Concentration: 0.49 mg/ml (varies by lot)
Applicable Applications for DENGUE VIRUS TYPE 2 NS1 ANTIGEN recombinant protein	ELISA
Preparation	Recombinant dengue virus serotype 2 NS1 protein, sequence strain Thailand/16681/84, expressed in 293 human cells
Buffer Solution	Dulbecco's phosphate buffered saline
Target Species	Viral
Preservative Stabilizers	None present
Preparation and Storage	Store at room temperature (ambient) for up to 2 weeks. For long term storage aliquot and freeze at -20 degree C. Storage at 4 degree C may result in protein precipitation. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Shelf Life: 12 months from date of despatch

ADDITIONAL INFORMATION

Related Product Information for DENGUE VIRUS TYPE 2 NS1 ANTIGEN recombinant protein

Recombinant dengue virus type 2 NS1 antigen is a purified preparation of the dengue virus serotype 2 (DENV2), non-structural protein 1 (NS1). DENV2 is one of four (DENV1-4) antigenically distinct, closely related viral serotypes belonging to the Flaviviridae family, genus flavivirus. All four serotypes are known to cause viral infection in humans. Dengue virus is common mosquito-borne infection and a major cause of morbidity in tropical and subtropical regions. There is currently no vaccine to prevent, or effective anti-viral drugs to treat, dengue virus infection. In many cases infection is asymptomatic and the majority of individuals who get ill only suffer the mild, non-specific febrile symptoms characteristic of dengue fever (DF). Only a minority of infections result in severe disease, manifesting as dengue hemorrhagic fever (DHF) or dengue shock syndrome (DSS). Dengue virus infection gives lifelong immunity to the serotype in question but subsequent infection with another serotype may increase the likelihood of severe disease. The NS1 glycoprotein is essential for viral replication and viability, and since this protein is secreted into the bloodstream, tests have been developed to identify DENV infections using NS1, including antigen-capture ELISA, lateral flow antigen detection, and the measurement of NS1-specific IgM and IgG responses (Guzman, M.G. et al. 2010). Recombinant DENV2 NS1 antigen is presented in its native folded state complete with post-translational modifications, delivering optimal antigenicity and making it suitable for use in vaccine research and serology-based assays.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.