ARG81357
Dengue virus NS1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81357-001	antibody-coated microplate	12 X 8 strips	4°C
ARG81357-002	Standard (depends, e.g. 200 ng)	1 vial	4°C, store at -20 °C after reconstitution
ARG81357-003	Standard reconstitution buffer	1.1 mL	4°C
ARG81357-004	HRP-antibody Conjugate (200X)	115 µL	4°C
ARG81357-005	Assay buffer	12 mL	4°C
ARG81357-006	Detection antibody diluent buffer	12 mL	4°C
ARG81357-007	10X Wash buffer	20 mL	4°C
ARG81357-008	TMB substrate	12 mL (ready-to-use)	4°C (Protect from light)
ARG81357-009	STOP solution	6 mL	4°C
ARG81357-010	Plate sealer	1 strips	Room temperature

Summary

Product Description	ARG81357 Dengue virus NS1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Dengue virus NS1 in serum, plasma and cell culture supernatants.
Tested Reactivity	DEN
Tested Application	ELISA
Specificity	The ELISA kit reacts to DENV type 1-4 NS1 protein and it does not cross-react to ZIKV NS1 protein.
Target Name	Dengue virus NS1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	less than 0.5 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	1.56 - 100 ng/ml
Sample Volume	100 µl
Alternate Names	Dengue virus NS1 antibody; Dengue virus nonstructural glycoprotein NS1 antibody

Application Instructions

Assay Time	~ 2.5 hours

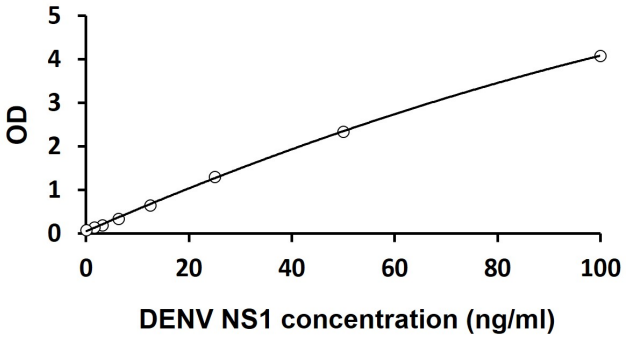
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	DENV_gp1
Gene Full Name	Dengue virus nonstructural protein 1
Background	Dengue virus NS1 protein is a nonstructural protein which could be secreted and have been developed as diagnostic biomarker for early detection. There are several forms of NS1 including monomer, dimer, and hexamer during infection. Dimeric NS1 can be anchored to cell membranes with glycosyl-phosphatidylinositol (GPI). Hexameric NS1 can be secreted and detected in patients' blood samples (up to 50 µg/mL) or infected cell supernatants (various from ng/mL to µg/mL depend on serotypes and strains). Studies have shown that NS1 could interfere complement activity and prothrombin activation. In addition, NS1 could elicit antibodies which cross-react with host antigens including coagulation factors and molecules expressed in endothelial cells and platelets through molecular mimic.
Function	Dengue virus (DENV) non-structural protein 1 (NS1) is involved in virus replication and regulation of the innate immune response. Soluble and membrane-associated NS1 may activate human complement and induce host vascular leakage. This effect might explain the clinical manifestations of dengue hemorrhagic fever and dengue shock syndrome. [Uniprot]
Highlight	Related products: Dengue Virus antibodies; Dengue Virus ELISA Kits; Dengue Virus Duos / Panels; Related news: Best NS1 antibodies in the market Fighting fire with fire: Genetically-engineered mosquitoes as an alternative to fight diseases Tools for studying Dengue Virus Exploring Antiviral Immune Response New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Microbiology and Infectious Disease antibody

Images



ARG81357 Dengue virus NS1 ELISA Kit standard curve image

ARG81357 Dengue virus NS1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.