



Recombinant DENV Polyvalent Antigen [His] (22kDa) (DAG1641)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyvalent dengue antigen is a 22kDa protein that contains 4 dengue antigen subtypes, produced in E.coli and fused to a 6xHis Tag. The immunoreactive peptide span from the viral envelope to the non-functional region. The polyvalent dengue antigen consists of 25% recombinant antigen from each of the dengue subtypes in their composition. The Polyvalent dengue antigen detects all four dengue subtypes. The sensitivity and specificity could reach approximately 93% and 96% in dengue IgG and IgM ELISA assay.
Species	DENV
Purity	> 95% pure as determined by 10% PAGE (coomassie staining).
Conjugate	His
Applications	Each laboratory should determine an optimum working titer for use in its particular application.
Molecular Weight	22 kDa
Format	Liquid
Buffer	PBS, pH7.4
Preservative	0.05% Sodium Azide
Storage	Polyvalent Dengue although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

BACKGROUND

Introduction	Dengue virus (DENV) in one of four serotypes is the cause of dengue fever. It is a mosquito-
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borne single positive-stranded RNA virus of the family Flaviviridae; genus Flavivirus. All four serotypes can cause the full spectrum of disease. Its genome is about 11000 bases that codes for three structural proteins, capsid protein C, membrane protein M, envelope protein E; seven nonstructural proteins, NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5; and short non-coding regions on both the 5 and 3 ends. Further classification of each serotype into genotypes often relates to the region where particular strains are commonly found or were first found.

Keywords

Dengue Virus; DENV; Dengue
