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# DNA Aptamer against Dengue Virus Envelope Protein

SKU# APT-064: DNA Aptamer against Dengue Virus Envelope Protein

## Background

Dengue virus (DENVs) is a member of the virus family Flaviviridae, and contain four serologically and genetically distinct viruses, termed DENV-1, DENV-2, DENV-3 and DENV-4. It is spread by daytime-active Aedes mosquitoes, such as *A. aegypti* and *A. albopictus*. Dengue virus shares a genus with the Zika, yellow fever, Japanese encephalitis, and West Nile viruses. DENVs is enveloped and icosahedral and has a non-segmented, single-stranded, 10 kilobase, positive-sense RNA genome. The virus encodes three structural proteins (capsid, membrane and envelop glycoprotein). From these proteins, the envelope glycoprotein, or E protein, has an important role been associated with receptor binding, hemagglutination of erythrocytes, production of neutralizing antibodies and immune response.

**Aptamer type:** DNA aptamer

**Aptamer length:** 34 bp

**Affinity KD:** 200 nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-064-10	Single strand DNA, lyophilized powder	10 nmol
APT-064-30	Single strand DNA, lyophilized powder	30 nmol

- Store at -20°; reagents are guaranteed stable for 12 months when properly stored.