

Product datasheet

West Nile Virus preM peptide ab39905

Overview

Product name West Nile Virus preM peptide

Description

Nature Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab39905** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications ELISA
Blocking - Blocking peptide for Anti-West Nile Virus preM antibody ([ab25888](#))

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Preservative: 0.02% Sodium Azide
Constituents: 0.1% BSA, PBS, pH 7.2

General Info

Relevance West Nile Virus is part of the flavivirus family, many of which are capable of causing serious illness in humans. The ssRNA + strand virus is enveloped and spherical with a diameter of 40-50 nm, similar to all flaviviruses. The virion of this virus is a nucleocapsid covered by a lipoprotein envelope. The envelope contains two proteins: the protein M and glycoprotein E. The nucleocapsid is a complex of protein C and mRNA. In immature particles, there are 60 icosadially organized trimeric spikes on the surface. Each spike consists of three heterodimers of envelope protein M precursor (prM) and envelope protein E. Inside cells, viral particles will contain a preM particle and E in a complex that matures through proteolytic cleavage and processing in the Golgi apparatus. WNV has three different effects on humans, the first is asymptomatic infection; the second is a mild febrile syndrome termed West Nile Fever; the third is a neuroinvasive disease termed West Nile meningitis or encephalitis. In infected individuals the ratio between the three states is roughly 110:30:1. The main route of human infection is through

the bite of an infected mosquito.

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