9051 Mira Mesa Blvd, #910094
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WNV Pre-M

West Nile Virus Pre-M Recombinant
VAG0501

Product Overview

Name	WNV Pre-M

Description

West Nile Virus Pre-M Recombinant

Introduction

West Nile virus (WNV) is a virus of the family Flaviviridae part of the Japanese encephalitis (JE) antigenic complex of viruses. Image reconstructions and cryoelectron microscopyreveal a 45-50 nm virion covered with a relatively smooth proteinsurface. This structure is similar to virus; both belong to the genus flavivirus within the family Flaviviridae. WNV is a positive-sense, single strand of RNA, it is between 11,000 and 12,000 nucleotides long which encode seven non-structural proteins and three structural proteins. The RNA strand is held within a nucleocapsid formed from 12 kDaprotein blocks; the capsid is contained within a host-derived membrane altered by two viral glycoproteins.

Source

Escherichia Coli.

Formulation

20mM phosphate buffer pH 7.5.

Stability

WNV Pre-M although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Purity

Protein is >95% pure as determined by SDS-PAGE.

Amino acid sequence

MVTLSNFQGKVMMTVNATDVTDVITIPTAAGKNLCIVRA MDVGYLCEDTITYECPVLAAGNDPEDIDCWCTKSSVYVR YGRCTKTRHSRRSRRSLTVQTHGESTLANKKGAWLDSTK ATRYLVKTESWILRNPGYALE.

Applications

Antigen in ELISA and Western blots, excellent antigen for detection of West-Nile virus with minimal specificity problems.

Purification Method

Purified by proprietary chromatographic technique.

Specificity

Immunoreactive with sera of West Nile virus infected individuals.

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Precautions

WNV Pre-M is for research use only and not for use in diagnostic or therapeutic procedures.