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WNV Pre-M

Catalog #:WNPS-009

For research use only.

Description: The E.Coli derived 20kda recombinant protein contains the West-Nile N-Terminal Pre-M Virus immunodominant regions. The protein is fused with 6xHis tag.

Amino Acid Sequence:MVTLSNFQGKVMMTVNATDVTDVITIPTAAGKNLCIVRA MDVGYLCEDTITYECPVLAAGNDPEDIDCWCTKSSVYVRYGRCTKTRHSRRSRRSLTVQTHGES TLANKKGAWLDSTKATRYLVKTESWILRNPGYALE.

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

Specificty:
Immunoreactive with sera of West Nile virus infected individuals.

Formulation:
20mM phosphate buffer pH 7.5.

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

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

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.

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