

West Nile Virus Pre-M - Purified

Catalog No.: AR10699PU-L

Quantity: 1 mg

Background: 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 microscopy reveal a 45-50 nm virion covered with a relatively smooth protein surface. 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 kDa protein blocks; the capsid is contained within a host-derived membrane altered by two viral glycoproteins.

Source: E. coli

Format: **Purity:** >95.0% pure as determined by 10.0% PAGE (coomassie staining).
Purification Method: Purified by proprietary chromatographic technique.
Buffer System: 20mM Phosphate buffer pH 7.5

Applications: Antigen in ELISA and Western blots, excellent antigen for detection of West-Nile virus with minimal specificity problems.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: The *E. coli* derived 20 kDa recombinant protein contains the West-Nile N-Terminal Pre-M Virus immunodominant regions.

The protein is fused with 6xHis tag.

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

AA Sequence:

Å MVTLSNFQGVMMTVNATDVTDVITIPTAAGKNLCIVRA.
MDVGYLCEDTITYECPVLAAGNDPEDIDCWCTKSSVYVR.
YGRCTKTRHSRRSRRSLTVQTHGESTLANKKGAWLDSTK.
ATRYLVKTESWILRNPGYALE

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.