
West Nile Virus Pre-M Recombinant, His-tagged

CATALOG NUMBER: WNV-002-005P, 50 µg

Applications	Western blot standard, antibody ELISA, 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 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.
Description	The <i>E.coli</i> derived 20 kda recombinant protein contains the West-Nile N-Terminal Pre-M Virus immunodominant regions. The protein is fused with 6xHis tag.
Amino Acid Sequence	MVTLSNFQGGKVMVTNATDVTDVITITPTAAGKNLCIVRAMDVGYLCEDTITYECP VLAAGNDPEDIDCWCTKSSVYVRYGRCTKTRHSRRSRRSLTVQTHGESTLANKKG AWLDSTKATRYLVKTESWILRNPYALE
Source	<i>Escherichia coli</i>
Formulation	20mM phosphate buffer pH7.5
Specificity	Immunoreactive with sera of West Nile virus infected individuals.
Purity	> 90% pure by SDS-PAGE.
Storage	Protein is shipped at ambient temperature. Store at -20 °C and avoid freeze-thaw cycles.