

Product Data Sheet

□ Cat # RP-1457

Recombinant West Nile Pre-M Virus

**Size:** □ 50 ug

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. Immunoreactive with sera of West Nile virus infected individuals.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** 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. Purified by proprietary chromatographic technique. 20mM phosphate buffer pH 7.5.

**Applications and Suggested Dilutions:** Protein is >95% pure as determined by 10% PAGE (coomassie staining). Antigen in ELISA and Western blots, excellent antigen for detection of West-Nile virus with minimal specificity problems. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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