

## WNV Envelope

**Description:** The E.Coli derived recombinant protein contains the West-Nile N-terminus Envelope Virus immunodominant regions. The protein is fused with 6xHis tag. Mw~42kDa.

**Catalog #:** WNPS-008

**Amino Acid Sequence:** MQLKGTTYGV CSKAFKFLGT PADTGHGTVV LELQYTGTG  
PCKVPISSVA SLNDLTPVGR LVTVPFVSV ATANAKVLIE LEPPFGDSYI VVGRGEQQIN  
HHWHKSGSSI GKAFITTLKG ALEMQLKGTT YGVCSKAFKF LGTPADTGHG TVVLELQYTG  
TDGPCKVPIS SVASLNDLTP VGRLVTVPFV SVATANAKVL IELEPPFGDS YIVVGRGEQQI  
NHHWHKSGSS

For research use only.

**Purity:** Protein is >95% pure as determined by 10% PAGE (coomassie staining).

**Specificity:**

Immunoreactive with sera of West Nile virus infected individuals.

**Formulation:**

(1mg/ml) 20mM Phosphate buffer pH 7.5.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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 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.

**Storage:**

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

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