

## West Nile Virus Envelope (E) Protein

CATALOG NUMBER: WN-0011-005P, 50 µg

<b>Introduction</b>	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 (NS1, NS2a, NS3, NS4a, NS4b, and NS5) and three structural proteins (capsid (C), membrane (M or preM), and envelope (E)). 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.
<b>Applications</b>	Western blot standard, antibody ELISA, antigen, etc.
<b>Description</b>	Viral protein purified from 293 cell culture
<b>Viral Protein</b>	6xHis tagged West Nile Virus E protein ectodomain (amino acid 590-696) (GenBank No. AAF18443)
<b>Storage</b>	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.
<b>Concentration</b>	1 µg/µl in PBS
<b>Specificity</b>	≥ 95% purity (SDS PAGE)



**SDS-PAGE:** Envelope (West Nile Virus) protein