

West Nile Virus Envelope (E) Protein

CATALOG NUMBER: WN-001-005P, 50 µg

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 (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.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Description

Viral protein purified from 293 cell culture.

Viral Protein

6xHis tagged West Nile Virus Envelope protein (amino acid 291-696) (GenBank No. AAF18443).

Storage

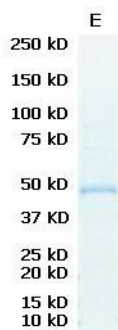
Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

Concentration

1 µg/µl in PBS with less than 0.1% BSA and 25% glycerol

Specificity

≥ 90% purity (SDS PAGE).



SDS-PAGE: E (West Nile Virus) protein (aa 291-696)