

Recombinant West Nile Virus Envelope Protein

CATALOG NO: P1065-10 10 µg
P1065-50 50 µg

SOURCE: *E. coli*

CONCENTRATION: 1mg/ml

PURITY: > 95% by SDS-PAGE

FORM: Liquid

MOLECULAR WT: The *E.Coli* derived recombinant protein contains the West-Nile N-terminus Envelope Virus immunodominant regions. The protein is fused to a 6xHis tag with molecular weight ~42kDa.

FORMULATION: 20 mM Phosphate buffer pH 7.5

STORAGE CONDITIONS: Stable at 4°C for 1 week, should be stored below -20°C. Please prevent freeze thaw cycles.

DESCRIPTION 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.

AMINO ACID SEQUENCE: MQLKGTYYGV CSKAFKFLGT PADTGHGTVV LELQYTGTDG
PCKVPISSVA SLNDLTPVGR LVTVNPVFSV ATANAKVLIE
LEPPFGDSYI VVGRGEQQIN HHWHKSGSSI GKAFITTLKG
ALEMQLKGT YGVCSKAFK LGTPADTGHG TVVLELQYTG
TDGPCKVPIS SVASLNDLTP VGRLVTVNPFV SVATANAKVL
IELEPPFGDS YIVVGRGEQQI NHHWHKSGSS IGKAFITTLK
GALEMQLKGT TYGVCSKAFK FLGTPADTGH GTVVLELQYT
GTDGPCKVPI SSVASLNDLT PVGRLVTVNP FVSVATANAK
VLIELEPPFG DSYIVVGRGE QQINHHWHKS GSSIGKAFIT
TLKGALEHHH HHH

APPLICATION: ELISA, Western blot, Lateral flow

RELATED PRODUCT:

- Anti-Flavivirus group antigen, Human IgG1 Antibody (**Cat. No. A1102-100**)
- Human CellExp™ HIV-1 (CN54) GP120 (**Cat. No. P1003-20, -100**)
- Human CellExp™ Influenza A virus / Neuraminidase (NA) (**Cat. No. 7508-20**)
- Active HIV1 Protease Recombinant (GST-tagged) (**Cat. No. 7849-20, -100**)
- Active HIV2 Protease Recombinant (GST-tagged) (**Cat. No. 7851-20, -100**)
- Anti-Flavivirus group antigen, Human IgG1 Antibody (**Cat. No. A1102-100**)
- Human CellExp™ Zika virus NS1 Protein (**Cat. No. P1062-10**)
- Recombinant Zika Envelope Protein (**Cat. No. P1063-10, -50**)
- Recombinant Zika virus NS1 Protein (**Cat. No. P1064-10, -50**)

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