

Product Data Sheet

□ Cat # RP-1456 Recombinant West Nile N-terminus Envelope Virus (WNV) (E. coli, >95%, 42 Kda, His-tag) **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.

**Source:** West-Nile N-Terminal envelope Virus immunodominant region was expressed as His tag. Fusion protein and Purified >95% ~42 kDa. It is supplied in 20mM phosphate buffer pH 7.5. (or see lot specific conc. On the vial) or in powder form. Reconstitute powder in water at 1mg/ml. Store at 4 C if entire vial will be used within 2-4 weeks.

Store frozen at -20 C for longer periods of time. Please avoid freeze thaw cycles.

**Specificity:**

RP-1456 antigen is immunoreactive with sera of West-Nile virus infected individuals by ELISA.

**Protein sequence:**

MQLKGTTYGV CSKAFKFLGT PADTGHGTVV LELQYTGTDG  
PCKVPISSVA SLNDLTPVGR LVTVPFVSV ATANAKVLIE  
LEPPFGDSYI VVGRGEQQIN HHWHKSGSSI KFAFTTTLKG  
ALEMQLKGT YGVCSKAFKF LGTPADTGHG TVVLELQYTG  
TDGPCKVPIS SVASLNDLTP VGRLVTVNPFV  
SVATANAKVL IELEPPFGDS YIVVGRGEQQI  
NHHWHKSGSS IGKAFTTTTLK GALEMQLKGT TYGVCSKAFK  
FLGTPADTGH GTVVLELQYT GTDGPCKVPI SSVASLNDLT  
PVGRLVTVNP FVSVATANAK VLIELEPPFG DSYIVVGRGE  
QQINHHWHKS GSSIGKAFTT TLKGALEHHH HHH

\*This product is for in-vitro research use only.

Catalog#	Prod Description
RP-1456-	Recombinant West Envelope virus (E.coli, >95% 20kda, his tag)
RP-1457 -	Recombinant West Nile Pre-M Virus
WNV11-M	Monoclonal anti-West Nile Virus (WNV) envelop protein IgG (non-reactive with Dengue, SLE, JEV)

WNV12-M Monoclonal anti-West Nile Virus (WNV) envelop protein IgG #2 (crossreacts with Dengues, SLE, JEV)

WNV13-SAnti-West Nile Virus vaccine (innovator) antiserum

WNV13-SAnti-West Nile Virus vaccine (Recombitek/DNA vaccine) antiserum

WNV14-SAnti-West Nile Virus (inactivated) antiserum

WNV15-R-10 Recombinant (E. coli) West Nile Virus chimerica protein (Capsid+prM+Env, ~70 Kda, His-tag)

910-210-WNG Mouse Anti-West Nile Virus Mosaic Proteins (C+prM+E) IgG

910-220-WNM Mouse Anti-West Nile Virus Mosaic Proteins (C+prM+E) IgM ELISA kit, 96 tests

910-230-WNG Mouse Anti-West Nile Virus prM Protein (WNV-prM) IgG ELISA kit, 96 tests

910-240-WNM Mouse Anti-West Nile Virus prM Protein (WNV-prM) IgM ELISA kit, 96 tests

910-250-WNG Mouse Anti-West Nile Virus Envelop Protein (WNV-E) IgG ELISA kit, 96 tests

910-260-WNM Mouse Anti-West Nile Virus Envelop Protein (WNV-E) IgM ELISA kit, 96 tests

910-310-WNG Horse Anti-West Nile Virus Mosaic Proteins (C+prM+E) IgG ELISA kit, 96 tests

910-320-WNM Horse Anti-West Nile Virus Mosaic Proteins (C+prM+E) IgM ELISA kit, 96 tests

910-330-WNG Horse Anti-West Nile Virus prM Protein (WNV-prM) IgG ELISA kit, 96 tests

910-340-WNM Horse Anti-West Nile Virus prM Protein (WNV-prM) IgM ELISA kit, 96 tests

910-350-WNG Horse Anti-West Nile Virus Envelop Protein (WNV-E) IgG ELISA kit, 96 tests

910-360-WNM Horse Anti-West Nile Virus Envelop Protein (WNV-E) IgM ELISA kit, 96 tests

910-430-WNG Human Anti-West Nile Virus prM Protein (WNV-prM) IgG ELISA kit, 96 tests

910-440-WNM Human Anti-West Nile Virus prM Protein (WNV-prM) IgM ELISA kit, 96 tests

910-450-WNG Human Anti-West Nile Virus Envelop Protein (WNV-E) IgG ELISA kit, 96 tests

910-460-WNM Human Anti-West Nile Virus Envelop Protein (WNV-E) IgM ELISA kit, 96 tests

RP-1456 160422SV

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)