

## Recombinant West Nile Envelope Virus His

<b>Catalog No.</b>	CSI15906A	<b>Quantity:</b>	100 µg
	CSI15906B		0.5 mg
	CSI15906C		1.0 mg

**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. The *E. coli* derived recombinant protein contains the West-Nile N-terminus Envelope Virus immunodominant regions. The protein is fused with 6x His tag. Mw~42kDa.

**Source:** *E. coli*

**Molecular Weight:** ~42kDa

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

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

**Purification Method:** Purified by proprietary chromatographic technique.

**Specific Activity:** Immunoreactive with sera of West Nile virus infected individuals.

**Amino Acid Sequence:** MQLKGTTYGV CSKAFKFLGT PADTGHGTVV LELQYTGTGDG PCKVPISSVA  
SLNDLTPVGR LVTVNPFSV ATANAKVLIE LEPPFGDSYI VVGRGEQQIN  
HHWHKSGSSI GKAFITTLKG ALEMQLKGT YGVCSKAFK LGTPADTGHG  
TVVLELQYTG TDGPCKVPIS SVASLNDLTP VGRLVTVNPFV SVATANAKVL  
IELEPPFGDS YIVVGRGEQQI NHHWHKSGSS IGKAFITTLK GALEMQLKGT  
TYGVCSKAFK FLGTPADTGH GTVLELQYT GTDGPCKVPI SSVASLNDLT  
PVGRLVTVNP FVSVATANAK VLIELEPPFG DSYIVVGRGE QQINHHWHKS  
GSSIGKAFTT TLKGALEHHH HHH

**Applications:** Antigen in ELISA and Western blots, excellent antigen for detection of West-Nile virus with minimal specificity problems.

**Storage & Stability:** 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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