
Product Data Sheet

Product Name: WNV Envelope
 Cat. No.: GP25520
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Amino Acid Sequence
 MQLKGTTYGV CSKAFKFLGT PADTGHGTVV LELQYTGTGDG PCKVPISSVA
 SLNDLTPVGR LVTVNPVFSV ATANAKVLIE LEPPFGDSYI VVGRGEQQIN
 HHWHKSGSSI GKAFITTLKG ALEMQLKGTT YGVCSKAFKF LGTPADTGHG
 TVVLELQYTG TDGPCKVPIS SVASLNDLTP VGRLVTVNPFV SVATANAKVL
 IELEPPFGDS YIVVGRGEQQI NHHWHKSGSS IGKAFITTLK GALEMQLKGT
 TYGVCSKAFK FLGTPADTGH GTVVLELQYT GTDGPCKVPI SSVASLNDLT
 PVGRLVTVNP FVSVATANAK VLIELEPPFG DSYIVVGRGE QQINHHWHKS
 GSSIGKAFIT TLKGALEHHH HHH.

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

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 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.

Stability

WNV Envelope although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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The E.Coli derived recombinant protein contains the West-Nile N-terminus Envelope Virus immunodominant regions. The protein is fused to a 6xHis tag. Mw~42kDa.

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