

RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet Recombinant West Nile Virus Envelope

Catalog No.

228-11648

Source

E.Coli

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.

Description

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

Method

Purified by proprietary chromatographic techniques.

Purity

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

Formulation

8M Urea, 20mM Tris-HCl buffer pH 7.5, 10mM beta -mercaptoethanol.

Storage

Protein is shipped at ambient temperature.

Upon arrival, store at -20°C.

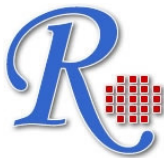
Stability

Five years frozen. One month in solution at room temperature.

Specificity

Immunoreactive with sera of West Nile virus infected individuals.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Applications

Antigen in ELISA and Western blot. Excellent antigen for detection of West-Nile virus with minimal specificity problems.

Amino Acid Sequence

MQLKGT TYGV CSKAFK FLGT PADTGH GTVV LELQYT GTDG PCKVPI SSVA
SLNDLT PVGR LVTVPN PFVSV ATANAK VLIE LEPPFG DSYI VVGRGE QQIN
HHWHKSGSSI GKAF TTTLKG ALEMQLKGTT YGVCSKAFKF LGTPADTGHG
TVVLELQYTG TDGPCKVPIS SVASLNDLTP VGRLVTVNPFV SVATANAKVL
IELEPPFGDS YIVVGRGEQQI NHHWHKSGSS IGKAF TTTLK GALEMQLKGT
TYGVCSKAFK FLGTPADTGH GTVVLELQYT GTDGPCKVPI SSVASLNDLT
PVGRLVTVNP FVSVATANAK VLIELEPPFG DSYIVVGRGE QQINHHWHKS
GSSIGKAF TT TLKGALEHHH HHH

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**