

# **Product Information Sheet for NR-52391**

Envelope Domain III (EDIII) Protein from Powassan Virus, LB with C-Terminal Histidine Tag, Recombinant from Yeast

# Catalog No. NR-52391

For research use only. Not for use in humans.

#### **Contributor and Manufacturer:**

**BEI Resources** 

## **Product Description:**

A recombinant form of the truncated Envelope Domain III (EDIII) protein of the Powassan virus (POWV), LB (GenPept: NP 775516) was produced by the *Komagataella phaffii* (*Pichia pastoris*) expression system and purified using nickel affinity chromatography. NR-52391 contains residues 301 to 401 of the EDIII protein and features a thrombin cleavage site and C-terminal octa-histidine tag. The predicted protein sequence is shown in Figure 1. NR-52391 has a theoretical molecular weight of 12,763 daltons.

#### **Material Provided:**

Each vial contains approximately 50  $\mu$ L of purified recombinant EDIII protein in PBS (pH 7.4). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

## Packaging/Storage:

NR-52391 was packaged aseptically, in screw-capped plastic cryovials. This product is provided on ice bricks and should be stored at -20°C or colder immediately upon arrival. Repeated freeze-thaw cycles of this product should be avoided.

### **Functional Activity:**

NR-52391 reacts with monoclonal anti-histidine tag in western blot analysis.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Envelope Domain III (EDIII) Protein from Powassan Virus, LB with C-Terminal Histidine Tag, Recombinant from Yeast, NR-52391."

# **Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

#### Disclaimers:

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## References:

 Mandl, C. W., et al. "Complete Genomic Sequence of Powassan Virus: Evaluation of Genetic Elements in Tick-Borne *versus* Mosquito-Borne Flaviviruses." <u>Virology</u> 194 (1993): 173-184. PubMed: 8097605.

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NR-52391 31AUG2020



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# Figure 1 - Predicted Protein Sequence

- 1 MGTTYSMCDK AKFKWKRVPV DSGHDTVVME VSYTGSDKPC RIPVRAVAHG
- 51 VPAVNVAMLI TPNPTIETNG GGFIEMQLPP GDNIIYVGDL SQQWFQKGST
- 101 **IG**LVPRGSHH HHHHHH

Vector-derived amino acids – Residue 1
EDIII – **Residues 2 to 102**Thrombin cleavage site – Residues 103 to 108
Octa-histidine tag – <u>Residues 109 to 116</u>

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