

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

## Catalog No. NR-52391

This reagent is the tangible property of the U.S. Government.

### Product Description:

A recombinant form of the truncated Envelope Domain III (EDIII) protein of the Powassan virus (POWV), LB (GenPept: NP\_775516) was produced in *Komagataella phaffii* (*Pichia pastoris*) expression system, purified using nickel affinity chromatography and vialled in phosphate buffered saline (PBS), pH 7.4. NR-52391 contains residues 301 to 401 of the EDIII protein and features a thrombin cleavage site and a C-terminal octa-histidine tag.

Lot: 70082630

Manufacturing Date: 04AUG2026

| TEST                                                                                  | SPECIFICATIONS                                                        | RESULTS                                                                             |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Appearance                                                                            | Clear and colorless                                                   | Clear and colorless                                                                 |
| Molecular Weight Determination by MALDI-MS                                            | Report results                                                        | 12.632 kDa                                                                          |
| SDS-PAGE Analysis                                                                     | Protein band of interest represents > 90% of total staining intensity | Dominant band of ~ 15 kDa accounts for 99.2% of total staining intensity (Figure 1) |
| Concentration by Bradford Assay<br>Bovine Serum Albumin (standard)                    | Report results                                                        | 0.48 mg/mL                                                                          |
| Final Product<br>Amount per vial<br>Volume per vial                                   | Report results<br>Report results                                      | 52.7 µg<br>0.11 mL                                                                  |
| Identification by Western Blot Analysis <sup>1</sup><br>Monoclonal anti-histidine tag | Reactive                                                              | Reactive (Figure 2)                                                                 |
| Endotoxin Content (Limulus Amebocyte Lysate Assay)                                    | < 1000 EU/mg                                                          | < 10.44 EU/mg                                                                       |
| Sterility                                                                             | 0.22 µm sterile-filtered                                              | 0.22 µm sterile-filtered                                                            |

<sup>1</sup>Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

Figure 1: SDS-PAGE Analysis

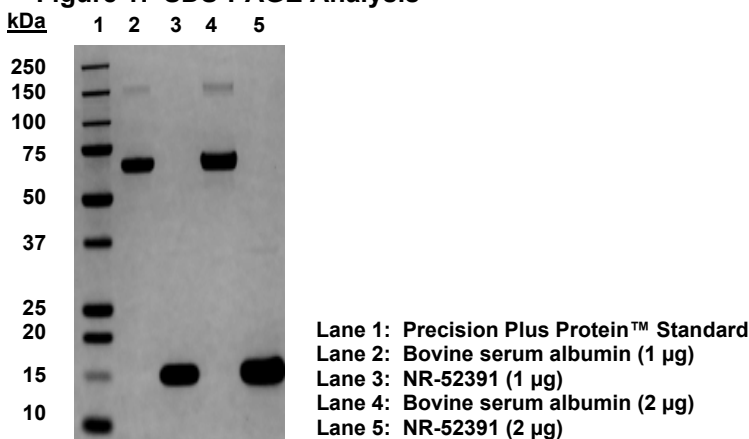
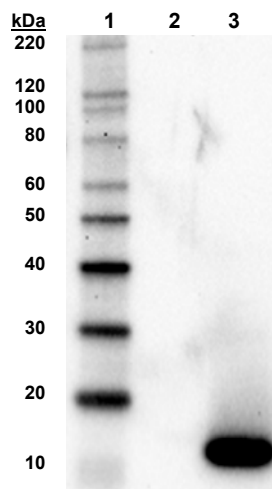


Figure 2: Western Blot with Monoclonal Anti-His Tag



Lane 1: MagicMark™ XP Protein Standard  
Lane 2: Bovine serum albumin (0.5 µg)  
Lane 3: NR-52391 (0.5 µg)

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25 AUG 2026

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