# Recombinant Ebola NP protein

**Cat. No.** NP-49E **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Nucleoprotein (NP) of Ebola virus has strong antigenicity in immune reactions. C-terminal of EBO-S nucleoprotein was expressed and purified from E. coli, it migrated at 15kDa on SDS-PAGE and pI is 4.52. Ebola Sudan was purified by a proprietary chromatographic technique. |
| **Species** | EBOV |
| **Source** | E.coli |
| **Description** | Ebolavirus (EVD) belongs to the Filoviridae family of proteins which is comprised of a single-strand, non-infectious RNA genome. EVD genome is about 19,000 base pairs l ong and covers 7 genes in the order 3'-UTR-NP-VP35-VP40-GP-VP30-VP24-L-5'-UT R. There are 4 different ebolaviruses such as: Zaire (EBO-Z), Sudan (EBO-S), Cote d' Ivoire (EBO-CI) and Reston (EBO-R) that differ in amino acid sequence and location of where the gene overlaps. Similar to filoviruses and ebolavirions, EVD is a filamento us element that could appear in 3 forms: shepherd's crook, U shape or a 6 shape. Eb olaviruses may be coiled, toroid, or branched. Most ebolavirions are 80nm wideand 1 4,000nm long. |
| **Form** | Ebola Sudan protein solution is supplied in Phosphate buffer and 0.02% sodium azide. |
| **Molecular Mass** | 15kDa |
| **Purity** | >95% pure as determined by 12% SDS-PAGE (Coomassie blue stain). |

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| **Applications** | Immunoassay. |
| **Usage** | The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. |
| **Stability** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles. |
| **Shipping** | Ice Packs |

## GENE INFORMATION

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| **Gene Name** | NP nucleoprotein [ Sudan ebolavirus ] |
| **Official Symbol** | NP |
| **Synonyms** | NP; nucleoprotein |
| **Gene ID** | 3160777 |
| **Protein Refseq** | YP_138520.1 |
| **UniProt ID** | Q5XX08 |

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