

Recombinant Ebola Zaire Nucleoprotein

Cat. No. NP-89E Lot. No. (See product label)

SPECIFICATION

Product Overview	Nucleoprotein (NP) of Ebola virus has strong antigenicity in immune reactions. C-terminal of EBO-Z nucleoprotein was expressed and purified from E. coli, it migrated at 15kDa on SDS-PAGE and pI is 4.87. Ebola Zaire 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 long and covers 7 genes in the order 3'-UTR-NP-VP35-VP40-GP-VP30-VP24-L-5'-UTR. 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 filamentous element that could appear in 3 forms: shepherd's crook, U shape or a 6 shape. Ebolaviruses may be coiled, toroid, or branched. Most ebolavirions are 80nm wide and 14,000nm long.
Form	Ebola Zaire protein solution (1.42mg/1ml) is supplied in Phosphate buffer and 0.02% sodium azide.
Purity	>95% pure as determined by 12% SDS-PAGE (Coomassie blue stain).
Applications	Immunoassay.

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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.

GENE INFORMATION

Gene Name [NP nucleoprotein \[Zaire ebolavirus \]](#)

Official Symbol NP

Synonyms NP; nucleoprotein

Gene ID [911830](#)

Protein Refseq [NP_066243](#)

UniProt ID AAD14590

Chromosome Location NC_002549.1 (56..3026)

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