Recombinant Sudan ebolavirus NP Protein, C-His-tagged

Cat. No. NP-06E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Sudan ebolavirus NP Protein, fused to His-tag at C-terminus, was expressed in E. coli.
Species	Sudan ebolavirus
Source	E.coli
Description	Ebola and Marburg viruses are both filamentous, enveloped, non-segmented, negative-stranded RNA viruses of the family Filoviridae in the order Mononegavirales (Curran and Kolakofsky, 1999; Sanchez et al., 2001). Ebola virus particles comprise seven structural proteins of which four (nucleoprotein (NP), VP35, VP30, and the RNA-dependent RNA polymerase (L)) are components of the ribonucleoprotein complex that is responsible for viral genome replication. Glycoprotein (GP), VP40, and VP24 are membrane-associated proteins and VP24 is believed to be involved in nucleocapsid formation. Ebola virus NP is the largest nucleoprotein of the non-segmented negative-stranded RNA viruses (739 amino acid residues) and can be divided into a N-terminal hydrophobic region (approximately 350 amino acids) and a C-terminal hydrophilic region (Watanabe et al., 2006). O glycosylation and sialylation of NP is required for its interaction with VP35, and may be important for viral genome replication. The Zaire Ebola virus NP RNA complex has been described at near-atomic resolution using C-terminally truncated protein (residues 1–450) in a human cell line in which it sequestered cellular RNA and assembled it into a rigid helix indistinguishable from the viral nucleocapsid core (Sugita et al., 2018).

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	Despite the fact that severe hemorrhagic fever caused by Ebola virus is associated with extremely high mortality rates in human and nonhuman primates, an effective vaccine or antiviral drug is still to be developed. This Ebola Virus Nucleoprotein (NP) (Sudan) has been developed to aid in the ongoing research efforts towards developing new vaccine candidates and in vitro diagnostics.
Form	Liquid
Molecular Mass	Expected Molecular Weight: 15 kDa Observed Molecular Weight: 15 kDa
Sequence Strain	Sudan
Purity	>95% as determined by SDS-PAGE.
Stability	Not determined
Storage	Short Term Storage: -20 centigrade Long Term Storage: -80 centigrade General Storage Conditions: Centrifuge before opening to ensure complete recovery of vial contents. Avoid multiple freeze/thaw cycles.
Storage Buffer	PBS with 0.02% sodium azide.
Shipping	Dry ice

GENE INFORMATION

Gene Name	NP nucleoprotein [Sudan ebolavirus]
Official Symbol	NP

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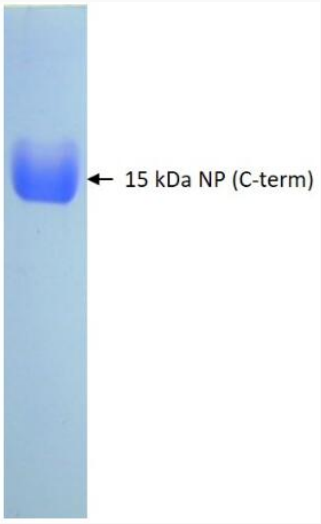
Gene ID	3160777
Protein Refseq	YP_138520.1
UniProt ID	Q9QP77
SDS-PAGE	 Coomassie-stained SDS-PAGE showing purified Ebola virus Nucleoprotein.

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