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Produktinformation

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Zuschläge

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- Trockeneiszuschlag
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PRODUCT INFORMATION

Ebola Virus Nucleoprotein (subtype Sudan, strain Gulu) (recombinant; aa 630-738)

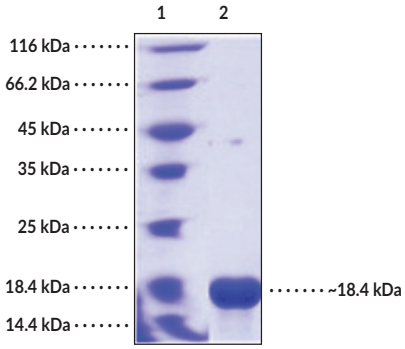
Item No. 41064

Overview and Properties

Synonym:	EBOV Nucleoprotein
Source:	Recombinant Ebola virus N-terminal His-tagged nucleoprotein expressed in *E. coli*
Amino Acids:	630-738
Uniprot No.:	Q5XX08
Molecular Weight:	14.8 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥95% estimated by SDS-PAGE
Supplied in:	Lyophilized from sterile 50 mM Tris, 500 mM sodium chloride
Endotoxin Testing:	<1.0 EU/µg, determined by the LAL endotoxin assay
Protein Concentration:	***batch specific*** mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: Ebola Virus Nucleoprotein (subtype Sudan, strain Gulu)

SDS-PAGE Analysis of Ebola Virus Nucleoprotein (subtype Sudan, strain Gulu). This protein has a calculated molecular weight of 14.8 kDa. It has an apparent molecular weight of approximately 18.4 kDa by SDS-PAGE under reducing conditions.

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PRODUCT INFORMATION

Description

Ebola virus (EBOV) is an enveloped and negative-stranded RNA virus, a member of the *Ebolavirus* genus, and the causative agent of Ebola virus disease (EVD), a condition characterized by a hemorrhagic fever and a high mortality rate, that is endemic to western and equatorial Africa.[1] The single-stranded RNA genome of EBOV encodes seven proteins: nucleoprotein (NP), virion protein 40 (VP40), VP35, VP30, VP24, glycoprotein (GP), and an RNA-dependent RNA polymerase (L).[1,2] Ebola virus NP is a 739-amino acid protein composed of an N-terminal domain, which is required for protein oligomerization and RNA binding, linked by an unstructured region to a C-terminal domain that functions as a protein-protein interaction hub and forms the viral nucleocapsid that encapsulates the RNA genome throughout the virus life cycle.[3,4] This NP nucleocapsid is a protein-RNA complex acts as a scaffold for additional viral proteins, including L, the viral polymerase, to complete viral replication.[4] Additionally, the Ebola virus NP is essential to viral genome replication, transcription, and maintenance of viral structure and protects the viral genome from host nucleases.[3] Cayman's Ebola Virus Nucleoprotein (subtype Sudan, Strain Gulu) (recombinant; aa 630-738) consists of 108 amino acids and has a calculated molecular weight of 14.8 kDa. By SDS-PAGE, under reducing conditions, the apparent molecular mass of the protein is ~18.4 kDa.

References

1. Rojas, M., Monsalve, D.M., Pacheco, Y., *et al.* Ebola virus disease: An emerging and re-emerging viral threat. *J. Autoimmun.* **106**, 102375 (2020).
2. Salata, C., Calistri, A., Alvisi, G., *et al.* Ebola virus entry: From molecular characterization to drug discovery. *Viruses* **11(3)**, 274 (2019).
3. Aceti, D.J., Ahmed, H., Westler, W.M., *et al.* Fragment screening targeting Ebola virus nucleoprotein C-terminal domain identifies lead candidates. *Antiviral Res.* **180**, 104822 (2020).
4. Kirchdoerfer, R.N., Saphire, E.O., and Ward, A.B. Cryo-EM structure of the Ebola virus nucleoprotein-RNA complex. *Acta Crystallogr. F Struct. Biol. Commun.* **75(Pt. 5)**, 340-347 (2019).

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