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Ebola Sudan (SUDV), recombinant

Catalog No: 96999
Lot No: XXXXX
Source: *E. coli*
Synonyms: Ebolavirus, EBO-S, SUDV, SEBOV

Background

Ebolavirus belongs to the Filoviridae family of proteins which is comprised of a single-strand, non-infectious RNA genome. The Ebolavirus 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 5 different ebolaviruses such as: Zaire (EBOV), Sudan (SUDV), Taï Forest (TAFV), Bundibugyo (BDBV) and Reston (RESTV) that differ in amino acid sequence and location of where the gene overlaps. Similar to filoviruses and ebolavirions, Ebolavirus 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 80 nm wide and 14,000 nm long.

Description

Nucleoprotein (NP) of Ebolavirus has strong antigenicity in immune reactions. C-terminal of SUDV nucleoprotein was expressed and purified from *E. coli*, it migrated at 15 kDa on SDS-PAGE and pI is 4.52. SUDV nucleoprotein was purified by a proprietary chromatographic technique.

Physical Appearance

Solution.

Formulation

SUDV protein solution (2.48 mg/ 1 ml) is supplied in phosphate buffer and 0.02% sodium azide.

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.

Purity

>95% pure as determined by 12% SDS-PAGE (Coomassie blue stain).

Applications

Immunoassay.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.