NP Protein of Zaire Ebolavirus (isolate H.sapiens-wt/GIN/2014/Kissidougou-C15)

CATALOG NUMBER: ZEB-NP-022P, 50 µg

Introduction

The Ebola virus (EBOV) is a mononegavirus which contains a 19 kb single-stand RNA encoding seven proteins: nucleoprotein (NP), viral protein (VP) 35, VP40, glycoprotein (GP), VP30, VP24, and RNA polymerase (L). VP30, VP35, NP, and L are the 4 virion structural proteins. VP40, GP, and VP24 are the 3 membrane-associated proteins.

NP plays an important role in the replication of the viral genome and is essential for formation of the nucleocapsid. The produced NP protein (~45 kDa) is derived from the sequence of a recent Zaire Ebolavirus (ZEBOV) isolate from 2014 outbreak in western Africa.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Description

Viral protein purified from 293 cell culture

Viral Protein

C-terminal 6x His tagged nucleoprotein (NP) (amino acid 396-738) of Zaire Ebolavirus (isolate H.sapiens wt/GIN/2014/Kissidougou-C15) (GenBank No. AHX24646.1)

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

Concentration

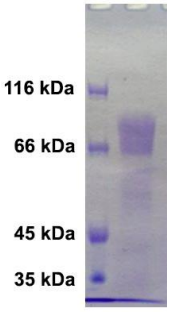
1 µg/µl in PBS

Endotoxin Level

<0.01 EU per 1 µg of the protein by LAL test

Purity

≥ 95% (by SDS PAGE)



SDS-PAGE: purified NP protein (aa 396-738) of Zaire Ebolavirus from 293 cells

NP SEQ:

TLRKE RLAKLTEAIT AASLPKTSGH YDDDDDIPFP GPINDDDNPG HQDDDPTDSQ DTTIPDVVVD PDDGGYGEYQ
SYSENGMSAP DDLVLFDLDE DDEDTKPVPN RSTKGGQQKN SQKGQHTEGR QTQSTPTQNV TGPRRTIHHA SAPLTDNDRR
NEPSGSTSPR MLTPINEEAD PLDDADDETS SLPPLESDDE EQDRDGTSNR TPTVAPPAPV YRDHSEKKEL PQDEQQDQDH
IQEARNQDSD NTQPEHSFEE MYRHILRSQG PFDAVLYYHM MKDEPVVFST SDGKEYTYPD SLEEEYPPWL TEKEAMNDEN
RFVTLDGQQF YWPVMNHRNK FMAILQHH

Reference:

1. Baize, S, et al. Emergence of Zaire Ebola virus disease in Guinea. N. Engl. J. Med., 371: 1418-1425, 2014.

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