Glycoprotein (GP) of Sudan Ebolavirus (Nakisamata)

CATALOG NUMBER: SEB-GP-020P, 50 µg

Introduction

The Ebola virus (EBOV) is a mononegavirus which contains a 19 kb single-stand RNA encoding seven proteins. Rates of genetic change of ebolavirus are 100 times slower than influenza A in humans, but on the same magnitude as those of hepatitis B.

The main Ebolavirus glycoprotein (GP) is the only viral protein found on the surface of the Ebola virion and is therefore responsible for mediating attachment and entry of the virus into host cells. The produced GP protein (~120 kDa) is derived from the sequence of a recent Sudan Ebolavirus from Uganda in 2011.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Description

Viral protein purified from 293 cell culture

Viral Protein

6x His tagged glycoprotein (GP) (amino acid 33-632) of Sudan Ebolavirus (Nakisamata) (GenBank No. AFP28231)

Storage

Store at -20 ºC; Stable for 1-months from the date of shipment when kept at 4 ºC. Non-hazardous, no MSDS required.

Concentration

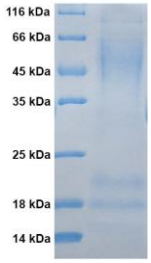
1 µg/µl in PBS (20% glycerol, 0.1% sodium azide)

Endotoxin Level

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

Purity

≥ 95% (by SDS PAGE)



SDS-PAGE: purified GP protein (aa 33-632) of Sudan Ebolasvirus from 293 cells

GP SEQ:

MPLGVVTNST LEVTEIDQLV CKDHLASTDQ LKSVGLNLEG SGVSTDIPSA TKRWGFRSGV PPKVVSYEAG EWAENCYNLE
IKKPDGSECL PPPPDGVRGF PRCRYVHKAQ GTGPCPGDYA FHKDGAFFLY DRLASTVIYR GVNFAEGVIA FLILAKPKET
FLQSPPIREA VNYTENTSSY YATSYLEYEI ENFGAQHSTT LFKIDNNTFV RLDRPHTPQF LFQLNDTIHL HQQLSNTTGR
LIWTLDANIN ADIGEWAFWE NKKNLSEQLR GEELSFEALS LNETEDDDAA SSRITKGRIS DRATRKYSDL VPKNSPGMVP
LHIPEGETTL PSQNSTEGRR VGVNTQETIT ETAATIIGTN GNHMQISTIG MRPSSSQIPS SSPTTAPSPE AQTPTTHTSG
PSVMATEEPT TPPGSSPGPT TEAPTLTTPE NITTAVKTVL PQESTSNGLI TSTVTGILGS LGLRKRSRRQ TNTKATGKCN
PNLHYWTAQE QHNAAGIAWI PYFGPGAEGI YTEGLMHNQN ALVCGLRQLA NETTQALQLF LRATTELRTY TILNRKAIDF
LLRRWGGTCR ILGPDCCIEP HDWTKNITDK INQIIHDFID HHHHHH

Reference:

1. Shoemaker, T, et al. Reemerging Sudan ebola virus disease in Uganda, 2011. Emerging Infect. Dis., 18: 1480-1483, 2012.

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