

Recombinant Sudan Ebola Virus Glycoprotein, aa 33-632, C-His tagged

Cat. No. GP-13S Lot. No. (See product label)

SPECIFICATION

Product Overview 6xHis tagged glycoprotein (GP) (amino acid 33-632) of Sudan ebolavirus (Nakisamata) expressed in 293 cells.
Glycosylated recombinant viral protein expressed and purified from 293 cells

Species Sudan Ebola Virus

Source HEK293

ProteinLength 33-632

Description 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.

AA Sequence MPLGVVTNSTLEVTEIDQLVCKDHLASTDQLKSVGLNLEGSGVSTDIPSATKRWGFR
SGVPPKVVSYEAGEWAENCYNLEIKKPDGSECLPPPPDGVRGFPRCRYVHKAQGT
GPCPGDYAFHKDGAFFLYDRLASTVIYRGVNFAEGVIAFLILAKPKETFLQSPPIREAV
NYTENTSSYYATSYLEYEIENFGAQHSTTLFKIDNNTFVRLDRPHTPQFLFQLNDTIHL
HQQLSNTTGRLIWTLNANINADIGEWAFWENKKNLSEQLRGEELSFEALSLNETEDD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DAASSRITKGRISDRATRKYSDLVPKNSPGMVPLHIPEGETTLPSQNSTEGRRVGVN
 TQETITETAATIIGTNGNHMQISTIGMRPSSSQIPSSSPTTAPSPEAQTPTTHTSGPSV
 MATEEPTTPPGSSPGPTTEAPTLTTPENITTAVKTVLPQUESTSNGLITSTVTGILGSLG
 LRKRSRRQTNTKATGKCNPNLHYWTAQEQHNAAGIAWIPYFGPGAEGIYTEGLMHN
 QNALVCGLRQLANETTQALQLFLRATTELRTYTILNRKAIDFLRRWGGTCRILGPDC
 CIEPHDWTKNITDKINQIIHDFIDHHHHHH

Endotoxin	< 0.01 EU/μg of purified protein by LAL test
Purity	> 96% (by SDS-PAGE)
Applications	Western Blot, antigen, ELISA, etc.
Storage	Store at -20 centigrade; Stable for 1-months from the date of shipment when kept at 4 oC. Nonhazardous, no MSDS required.
Concentration	1 μg/μL in PBS (20% glycerol, 0.1% sodium azide)
References	1. Shoemaker, T, et al. Reemerging Sudan ebola virus disease in Uganda, 2011. Emerging Infect. Dis., 18: 1480-1483, 2012

GENE INFORMATION

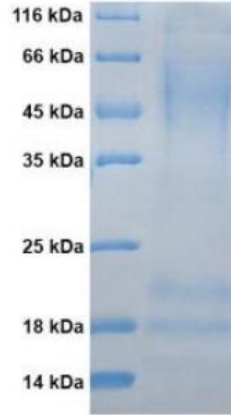
Official Symbol	GP
Synonyms	GP; Glycoprotein

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SDS-PAGE



Purified GP protein (aa 33-632) of Sudan Ebolavirus from 293 cell

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