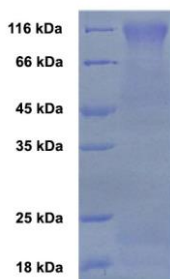


GP Protein of Zaire Ebolavirus (isolate H.sapiens-wt/GIN/2014/Gueckedou-C07)

CATALOG NUMBER: ZEB-GP-015P, 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 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	6x His tagged Glycoprotein (GP) (amino acid 33-632) of Zaire Ebolavirus (isolate H.sapiens wt/GIN/2014/Gueckedou-C07) (Genebank No. KJ660347)
Storage	Store at -20 °C; Stable for 1-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 GP protein (aa 33-632) of Zaire Ebolavirus from 293 cells

GP SEQ:

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IPLGVIHNSTLQVSDVDKLVCRDKLSSTNQLRSVGLNLEGNVATDVP SATKRWGFRSGVPPKVVNYEAGEWAENCYNLEIKKPD
GSECLPAAPDGI RGFPRCRYVHKVSGTGPCAGDFAFHKEGAFFLYDRLASTVIYRGTTF AEGVVAFLILPQAKKDFFS SHPLREP
VNATEDPSSGYSTTIRYQATGFGTNETEYLF EVDNLTIVVQLESRFT PQFLLQLNETIYASGKRSNTTGKLIWKVNPEIDTTIGE
WAFWETKKNLTRKIRSEELSFTAVSNGPKNISGQSPARTSSDPETNTT NEDHKIMASENSSAMVQVHSQGRKAAVSHLTTLATIS
TSPQSLTTKPGPDNSTHNTVPYKLDISEATQV GQHRRADNDSTASDTPPATTAAGPLKAENTNTSKSADSLDLATTTSPQNYSE
TAGNNNTHHQDTGEESASSGKLG LITNTIAGVAGLITGGRRTREVIVNAQPKCNPNLHYWTTQDEGAAI GLAWIPYFGPAAEGI
YTEGLMHNQDGLICGLRQLANETTQALQLFLRATTELR TFSILNRKAIDFLLQRWGGTCHILGPDCCIEPHDWTKNITDKIDQII
HDFVD
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Reference:

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