

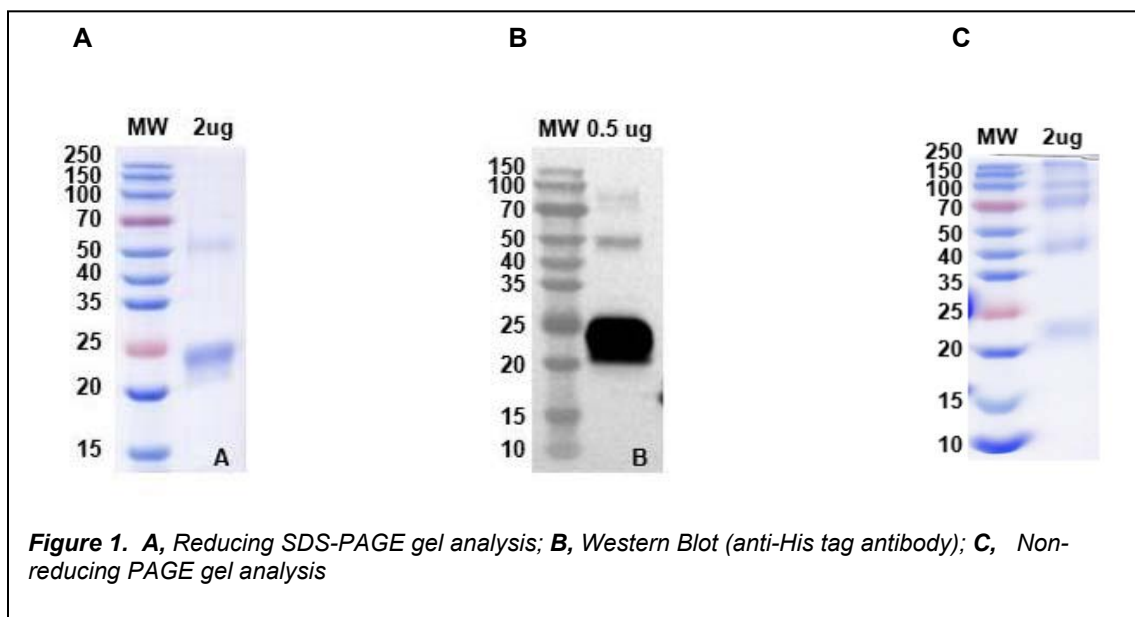
Recombinant Bundibugyo Ebolavirus Glycoprotein (GPΔTM) (isolate H.sapiens-wt/COD/2012/Isiro-20120022-1)

CATALOG NUMBER: BEB-GP-050P

Introduction	Bundibugyo virus (BDBV) is a member of the genus <i>Ebolavirus</i> within the family <i>Filoviridae</i> and is a causative agent of Ebola virus disease (EVD). BDBV possesses a non-segmented, negative-sense single-stranded RNA genome of approximately 19 kb that encodes seven structural proteins: nucleoprotein (NP), virion protein 35 (VP35), virion protein 40 (VP40), glycoprotein (GP), virion protein 30 (VP30), virion protein 24 (VP24), and the RNA-dependent RNA polymerase (L). The viral glycoprotein (GP) is the sole surface-exposed protein of the virion and mediates host-cell attachment, membrane fusion, and viral entry. As the primary target of neutralizing antibodies, GP is widely used in vaccine research, therapeutic antibody discovery, and serological assay development.
Applications	Western blot standard, ELISA antigen, antibody production, and serological assay development.
Expression Host	HEK293 cells
Product Description	Recombinant Bundibugyo virus glycoprotein (GPΔTM) is expressed in HEK293 cells and derived from the wild-type GP sequence (GenBank Accession No. MT680262). The recombinant protein contains a truncated GP ectodomain fused at the C-terminus to a foldon trimerization domain and a 6×His tag.
Storage	Store at -80 °C for long-term storage; Stable for 1 month from the date of shipment when stored at 4 °C. Avoid repeated freeze-thaw cycles. Aliquot after reconstitution or first thaw. Non-hazardous.
Size	50 µg
Concentration	1 µg/µL in PBS
Endotoxin Level	<0.01 EU/µg of protein (LAL assay)
Purity	≥90% (SDS-PAGE)



Quality Control



GPATM SEQ:

IPLGVVHNNTLQVSDIDKLVCRDKLSSTSQKSVGLNLEGNGVATDVPTATKRWGFRAAGVPPKVVNYEAGEWAENC
YNLDIKKADGSECLPEAPEGVGRGFPCRYVHKVSGTGPCPEGFAFHKEGAFFLYDRLASTIIYRSTTFSEGVVAF
ILPKTKKDFQSPPLHEPANMTTDPSSYYHTVTLNLYVADNFGTNMTNFLFQVDHLTYVQLEPRFTPQFLVQLNETI
YTNGRRSNTTGTLIWKVNPTVDTGVGEWAFWENKKNFTKTLSSSEELSVANLLTGSRRTREITLRTQAKCNPNLHY
WTTQDEGAAGLAWIPYFGPAAEGIYTEGIMHNQNGLICGLRQLANETTQALQLFLRATTELRTFSILNRKAIDFL
LQRWGGTCHILGPDDCIEPHDWTKNITDKIDQIIHDFIDKPLPDQTDNDNWWTGWRQ