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32-13615: Ebola Zaire GP

Alternative Name :	Ebolavirus (EVD) belongs to the Filoviridae family of proteins which is comprised of a single-strand, non-infectious RNA genome. EVD genome is about 19,000 base pairs long and covers 7 genes in the order 3'-UTR-NP-VP35-VP40-GP-VP30-VP24-L-5'-UTR. There are 4 different ebolaviruses such as: Zaire (EBO-Z), Sudan (EBO-S), Cote dÂ'Ivoire (EBO-CI) and Reston (EBO-R) that differ in amino acid sequence and location of where the gene overlaps. The EBOV glycoprotein is the only virally expressed protein above the virion surface. The EBOV glycoprotein is essential for virus attachment to host cell and fusion with target cell. Mucin like domain within Ebola virus glycoprotein contains multiple glycosylated amino acids. It has been shown that antibodies frequently develop against its mucin like domain. Recombinant mucin like domain is a suitable antigen to test specific antibodies from Ebola virus infected patients.

Description

Source: Escherichia Coli.
Ebolavirus (EVD) belongs to the Filoviridae family of proteins which is comprised of a single-strand, non-infectious RNA genome. EVD genome is about 19,000 base pairs long and covers 7 genes in the order 3'-UTR-NP-VP35-VP40-GP-VP30-VP24-L-5'-UTR. There are 4 different ebolaviruses such as: Zaire (EBO-Z), Sudan (EBO-S), Cote dÂ'Ivoire (EBO-CI) and Reston (EBO-R) that differ in amino acid sequence and location of where the gene overlaps. The EBOV glycoprotein is the only virally expressed protein above the virion surface. The EBOV glycoprotein is essential for virus attachment to host cell and fusion with target cell. Mucin like domain within Ebola virus glycoprotein contains multiple glycosylated amino acids. It has been shown that antibodies frequently develop against its mucin like domain. Recombinant mucin like domain is a suitable antigen to test specific antibodies from Ebola virus infected patients.
Recombinant Ebola Zaire Glycoprotein is a mucin like domain containing 181 amino acids was derived from Zaire Ebola Virus (strain Kikwit-95) gp mucin sequence produced in E. coli, and fused to a 6xHis tag at its C-terminus, having a molecular weight 38kDa.Ebola Zaire GP is purified by a proprietary chromatographic technique.

Product Info

Amount :	100 µg / 0.5 mg
Purification :	>95% pure as determined by 12% SDS-PAGE (Coomassie blue stain).
Content :	Ebola Zaire GP protein solution is supplied in Phosphate buffer with 25mM arginine and 0.02% sodium azide.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.