

Recombinant Ebola Zaire (Kikwit-95) GP protein, His-tagged

Cat. No. GP-50E **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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.

Species

EBOV

Source

E.coli

Description

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 d'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.

Form

Ebola Zaire GP protein solution is supplied in Phosphate buffer with 25mM arginine and 0.02% sodium azide.

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Molecular Mass	38kDa
Purity	>95% pure as determined by 12% SDS-PAGE (Coomassie blue stain).
Applications	Immunoassay.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	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 long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	GP spike glycoprotein [Zaire ebolavirus]
Official Symbol	GP
Synonyms	GP; spike glycoprotein; small secreted glycoprotein; second secreted glycoprotein; Envelope glycoprotein
Gene ID	911829
Protein Refseq	NP_066246.1
UniProt ID	Q05320

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