Recombinant Ebola Zaire VP40 protein, His-tagged

Cat. No. VP40-51E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Ebola Zaire VP40 is a full length of Zaire Ebola VP40 containing 325 amino acids produced in E.coli, having an Mw of 35kDa, and fused to a 6xHis tag at its C-terminus. Ebola Zaire VP40 is purified by a proprietary chromatographic technique.
Species	EBOV
Source	E.coli
ProteinLength	325 amino acids
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 l ong and covers 7 genes in the order 3'-UTR-NP-VP35-VP40-GP-VP30-VP24-L-5'-UT R. 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. Except for the nucleocapsid and glycoprotein, VP40 is an other Ebola structural protein. VP40 is a matrix protein which is essential for virion ass embly as well as budding from infected cell. It has been shown that VP40 is one of tar get recognized by specific Ebola antibodies from Ebola virus infected patients.
Form	Ebola Zaire VP40 protein solution is supplied in Phosphate buffer, 25mM arginine and 0.02% sodium azide.
Molecular Mass	35kDa

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Purity	Greater than 95% as determined by 12% PAGE (Coomassie staining).
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	VP40 coalesce nucleocapsids and cell membranes in virion assembly (budding) [Zaire ebolavirus]
Official Symbol	VP40
Synonyms	VP40; coalesce nucleocapsids and cell membranes in virion assembly (budding); matrix protein
Gene ID	911825
Protein Refseq	NP_066245.1
UniProt ID	Q05128

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