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Ebola Zaire VP40

Ebola Zaire VP40 Recombinant
VAG0142

Product Overview

Name	Ebola Zaire VP40

Description

Ebola Zaire VP40 Recombinant

Introduction

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. Except for the nucleocapsid and glycoprotein, VP40 is another Ebola structural protein. VP40 is a matrix protein which is essential for virion assembly as well as budding from infected cell. It has been shown that VP40 is one of target recognized by specific Ebola antibodies from Ebola virus infected patients.

Source

Escherichia Coli.

Formulation

Ebola Zaire VP40 protein solution is supplied in 25mM Tris Base, K 2 CO 3 and 0.02% sodium azide.

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.

Purity

Greater than 95% as determined by 12% PAGE (Coomassie staining).

Applications

Immunoassay.

Precautions

Ebola Zaire VP40 is for research use only and not for use in diagnostic or therapeutic procedures.