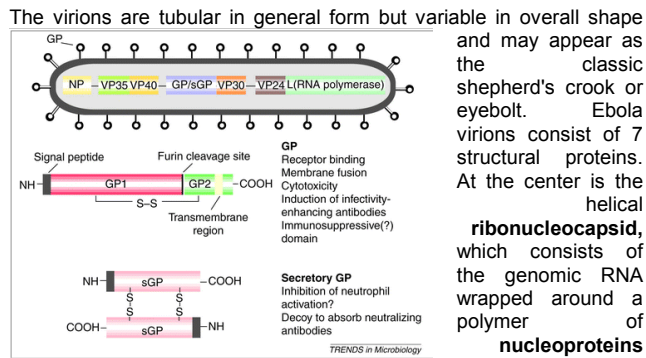


Product Specification Sheet

Recombinant Zaire-Ebola virus VP24

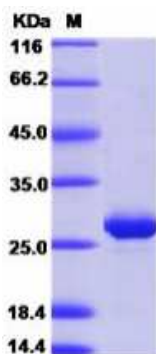
□ Cat # EVP24-R-10	Recombinant (E.coli) Zaire Ebola virus VP24 (H.sapiens-wt/GIN/2014/Kissidougou-C15,1-233aa, his tag, >95%)	SIZE: 10 ug
□ Cat # EVP24-R-100	Recombinant (E.coli) Zaire Ebola virus VP24 (H.sapiens-wt/GIN/2014/Kissidougou-C15,1-233aa, his tag, >95%)	SIZE: 100ug

Ebola virus (EBOV, formerly Zaire Ebolavirus) causes severe disease in humans and in nonhuman primates in the form of viral hemorrhagic fever.. Zaire Ebolavirus is a virological taxon included in the genus Ebolavirus, family Filoviridae, order Mononegavirales. The species has a single virus member, Ebola virus (EBOV). **Ebolavirus species Zaire (ZEBOV)** causes highly lethal hemorrhagic fever, resulting in the death of **90%** of patients within days. Most information on immune responses to ZEBOV comes from in vitro studies and animal models. Ebola Zaire attacks every organ and tissue in the human body except skeletal muscle and bone. Ebola is classified as a **Level 4** pathogen (higher than AIDS) with a 2 to 21 day (7 to 14 days average) incubation period. There are currently four known strains of Ebola: **Zaire, Sudan, Reston and Tai**. All cause illness in sub-human primates. Only Ebola Reston does not cause illness in humans. The mortality rate of Ebola victims is between 60% and 90%; with Ebola Sudan at 60% and Ebola Zaire at 90%.



with the ribonucleoprotein is the RNA-dependent **RNA polymerase (L)** with the **polymerase cofactor (VP35)** and a **transcription activator (VP30)**. The ribonucleoprotein is embedded in a matrix, formed by the major (VP40) and minor (VP24) matrix proteins. They are surrounded by a **lipid membrane** derived from the host cell membrane. The membrane anchors a glycoprotein (GP1,2) that projects 7 to 10 nm spikes away from its surface. While nearly identical to **Marburg virions** in structure, ebola virions are antigenically distinct. The most common diagnostic methods are RT-PCR in conjunction with antigen-capture ELISA which can be performed in field or mobile hospitals and laboratories. There are currently no FDA-approved vaccines for the prevention of EVD. The most promising ones are DNA vaccines or are based on adenoviruses, vesicular **stomatitis Indiana virus (VSIV)** or **filovirus-like particles (VLPs)** as all of these candidates could protect nonhuman primates from Ebola virus-induced disease. DNA vaccines, adenovirus-based vaccines, and VSIV-based vaccines have entered clinical trials.

Source of Antigen



Recombinant Zaire Ebola virus VP24 **cat#EVP24-R-10** is expressed in E. coli with a his tag at N terminus. (H.sapienswt/GIN/2014/Kissidougou-C15, 1-233 aa, protein accession# AHX24653.1, >95%, ~28kDa)
Purified protein is supplied in 50 mM Tris, 500 mM NaCl. (see lot sp. Conc. on the vial).

Recombinant protein is suitable for ELISA, Western or other applications where purified protein is required. Do not freeze, thaw, or heat repeatedly.

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -80C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting: load 100-200 ng/well.

ELISA (50-100 ng antigen/well).

References: Thomas W (2010) Archives of Virology 155 (12): 2083-103. Taylor D (2010) BMC Evolutionary Biology 10: 193. Feldmann H (2005) . A. Virus Taxonomy—Eighth Report of the International Committee on Taxonomy of Viruses. 645-653.

*This product is for In vitro research use only.

Related material available from ADI

http://www.4adi.com/objects/catalog/product/extras/Ebola_Marburg_Vaccines_ELISA_Flr.pdf

EVG31-BTN	Biotin-Recombinant (HEK) Zaire Ebola virus glycoprotein/GP (Mayinga 1976, 1-650aa, his-tag at CT, >95%), low endotoxin
EVG31-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein/GP (Mayinga 1976, 1-650aa, his-tag at CT, >95%), low endotoxin
EVG32-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein 2 (GP2, GIN/2014/Kissidougou-C15, GP2, 501-650aa, mFc-tag, >95%), low endotoxin
EVG33-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein 1 (GIN/2014/Kissidougou-C15, GP1, 1-501aa, his-tag, >95%), low endotoxin
EVNP16-R-10	Recombinant (E.coli) Zaire Ebola virus nucleoprotein (EBOV NP) (H.sapiens-wt/GIN/2014/Kissidougou-C15, 630-739aa, his-tag, >95%)
EVNP16-R-100	Recombinant (E.coli) Zaire Ebola virus nucleoprotein (EBOV NP) (H.sapiens-wt/GIN/2014/Kissidougou-C15, 630-739aa, his-tag, >95%)
EVP24-R-10	Recombinant (E.coli) Zaire Ebola virus VP24 (H.sapiens-wt/GIN/2014/Kissidougou-C15,1-233aa, his tag, >95%)
EVP24-R-100	Recombinant (E.coli) Zaire Ebola virus VP24 (H.sapiens-wt/GIN/2014/Kissidougou-C15,1-233aa, his tag, >95%)
EVP406-BTN	Biotin-Recombinant (E.coli) Zaire Ebola virus VP40 (H.sapiens-wt/GIN/2014/Kissidougou-C15, 1-326 aa, his-MBP tag, >95%)
EVP406-R-10	Recombinant (E.coli) Zaire Ebola virus VP40 (H.sapiens-wt/GIN/2014/Kissidougou-C15, 1-326 aa, his-MBP tag, >95%)
AE-320520-1	Human Anti-Ebola virus Nucleoprotein (NP) IgG ELISA Kit,
AE-320530-1	Human Anti-Ebola virus Nucleoprotein (NP) IgM ELISA Kit
AE-320620-1	Human Anti-Zaire-Ebola virus glycoprotein (GP) IgG ELISA
AE-320720-1	Human Anti-Zaire-Ebola virus VP40 IgG ELISA Kit,
AE-320730-1	Human Anti-Zaire-Ebola virus VP40 IgM ELISA Kit,
AE-320800-48	Human Zaire-Ebola Virus antigen ELISA Kit, 48 tests,
AE-320800-96	Human Zaire-Ebola Virus antigen ELISA Kit, 96 tests,
EVP405-R-10	141217P