

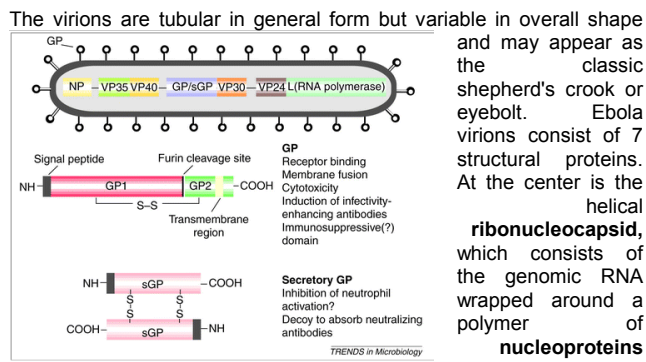
Product Specification Sheet

Recombinant (sf9) Zaire Ebola virus glycoprotein (GIN/2014/Kissidougou-C15, 1-650aa, his-tag at CT, >95%)

Cat # EVGP20-R-10
Cat # EVGP20-R-100

SIZE: 10 ug
SIZE: 100 ug

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%.



Source of Antigen

Recombinant Zaire Ebola virus glycoprotein (strain H.sapiens-wt/GIN/2014/Kissidougou-C15, accession# AHX24649.1) was expressed in sf9 cells as a **his-tag** fusion protein (>95%, ~69 kDa, migrates as broad diffused bands due to glycosylation). Purified protein is supplied in 20mM Tris, 500mM NaCl, 10% glycerol, (pH 8.0). (see lot sp. Conc. on the vial)

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

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Endotoxin level : < 1.0 EU per µg protein as determined by the LAL method.

Storage

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

Long-term: at -20C 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 20-100 ng/well.

ELISA (50-100 ng antigen/well).

Histochemistry & Immunofluorescence: not tested.

Specificity:

Zaire Ebola GP protein is significantly conserved in various serotypes: Bundibugyo (65%), Tai Forest D'Ivoire (64%), Sudan (54%), Reston (57%). Antibodies and recombinant GP proteins from various Ebola and Marburg viruses are available for control studies.

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.

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

EVGP15-A	Anti-Zaire Ebola virus glycoprotein (GP, 1-676aa/DNA vaccine) IgG,
EVGP16-A	Anti-Zaire Ebola virus glycoprotein (GP 1-652aa/DNA vaccine) IgG,
EVGP16-R-10	Rec. (sf9) Sudan-Ebola virus glycoprotein (minus transmembrane domain, his-tag, 68 kda), purified
EVGP17-R-10	Recombinant (sf9) Zaire-Ebola virus glycoprotein (minus transmembrane domain, his-tag, 68 kda), purified
EVGP20-R-10	Recombinant (sf9) Zaire Ebola virus glycoprotein (GIN/2014/Kissidougou-C15, 1-650aa, his-tag at CT, >95%), low endotoxin
EVGP21-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein (GIN/2014/Kissidougou-C15, 1-650aa, his-tag at CT, >95%), Low endotoxin
BVR11-R-10	Recombinant (HEK) Bundibugyo Ebola virus glycoprotein RBD domain (Uganda 2007, 54-201aa, Fc-tag at CT, >95%, low endotoxin)
EVBR14-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein RBD domain (Mayinga 1976, 1-308 aa, his tag, >95%, low endotoxin)
SVRB13-R-10	Recombinant (HEK) Sudan-Ebola virus RBD domain (Gulu, 1-320aa, Fc-tag at CT, >95%, low endotoxin)
EVBR13-R-10	Recombinant (HEK) Zaire Ebola virus glycoprotein RBD domain (Mayinga 1976, 1-308 aa, Fc tag at CT, >95%, low endotoxin) purified
SVGP24-R-10	Recombinant (HEK) Sudan-Ebola virus glycoprotein (Gulu, 1-637aa, his-tag at CT, >95% low endotoxin)
EVNP13-A	Anti-Zaire-Ebola virus nucleoprotein (EBOV NP, 1-739/DNA vaccine) IgG,
EVP401-A	Anti-Zaire-Ebola virus VP40 peptide (EBOV VP40) IgG,
EVP401-C	Rec. Zaire-Ebola virus VP40 protein control for Western
EVP405-R-10	Rec. (E.coli) Zaire-Ebola virus VP40
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,

EVGP20-R-100 141222A

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