

## Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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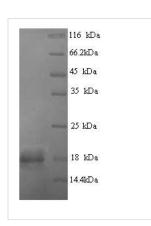
## Recombinant Zaire ebolavirus Envelope glycoprotein(GP),partial

Product Code	CSB-YP310843ZAA
Relevance	GP1 is responsible for binding to the receptor(s) on target cells. Interacts with CD209/IC-SIGN and CLEC4M//DC-SIGNR which act as cofactors for virus entry into the host cell. Binding to CD209 and CLEC4M, which are respectively found on dendritic cells (DCs), and on endothelial cells of liver sinusoids and lymph node sinuses, facilitate infection of macrophages and endothelial cells. These interactions not only facilitate virus cell entry, but also allow capture of viral particles by DCs and subsequent transmission to susceptible cells without DCs infection (trans infection). Binding to the macrophage specific lectin CLEC10A also ses to enhance virus infectivity. Interaction with FOLR1/folate receptor alpha may be a cofactor for virus entry in some cell types, although results are contradictory. Mbers of the Tyro3 receptor tyrosine kinase family also set to be cell entry factors in filovirus infection. Once attached, the virions are internalized through clathrin-dependent endocytosis and/or macropinocytosis. After internalization of the virus into the endosomes of the host cell, proteolysis of GP1 by two cysteine proteases, CTSB/cathepsin B and CTSL/cathepsin L presumably induces a conformational change of GP2, unmasking its fusion peptide and initiating mbranes fusion .GP2 acts as a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: prefusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell mbrane of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion for virul and target cell mbranes. Responsible for penetration of the virus particle with the endosomal mbrane. Low pH in endosomes induces an irreversible conformational change in GP2, releasing the fusion hydrophobic peptide .GP1,2 mediates endothelial cell activation and decreases endothelial barrier function. Mediates activation of primary macrophages. At terminal stages of the viral infection, when its e

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	pathogenesis of the virus by efficiently blocking the neutralizing antibodies that would otherwise neutralize the virus surface glycoproteins GP1,2. Might therefore contribute to the lack of inflammatory reaction seen during infection in spite the of extensive necrosis and massive virus production. GP1,2delta does not se to be involved in activation of primary macrophages.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P87671
Alias	GP1,2 ;GP
Product Type	Recombinant Protein
Immunogen Species	Zaire ebolavirus (strain Eckron-76) (ZEBOV) (Zaire Ebola virus)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EAIVNAQPKCNPNLHYWTTQDEGAAIGLAWIPYFGPAAEGIYTEGLMHNQNGL ICGLRQLANETTQALQLFLRATTELRTFSILNRKAIDFLLQRWGGTCHILGPDCC IEPHDWTKNITDKIDQIIHDFVDKTLPD
Lead Time	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
Research Area	Others
Source	Yeast
Gene Names	GP
Protein Names	Recommended name: Envelope glycoprotein Alternative name(s): GP1,2 Short name= GP Cleaved into the following 3 chains: 1. GP1 2. GP2 3. GP2-delta
Expression Region	502-637aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	17.3kDa
Protein Description	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



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Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the
	contents to the bottom. Please reconstitute protein in deionized sterile water to a
	concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final
	concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final
	concentration of glycerol is 50%. Customers could use it as reference.