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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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PRODUCT INFORMATION



Ebola Virus VP40 (subtype Sudan, strain Gulu) (recombinant)

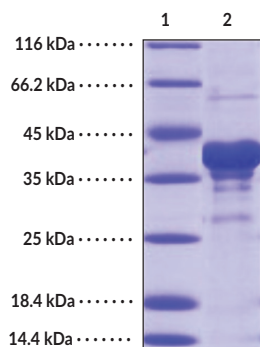
Item No. 41065

Overview and Properties

Synonyms: EBOV Matrix Protein VP40, EBOV Viral Protein 40, EBOV Virion Protein 40
Source: Recombinant Ebola virus N-terminal His-tagged VP40 expressed in *E. coli*
Amino Acids: 31-326
Uniprot No.: Q5XX06
Molecular Weight: 34.5 kDa
Storage: -80°C (as supplied)
Stability: ≥1 year
Purity: ≥80% estimated by SDS-PAGE
Supplied in: Lyophilized from sterile 50 mM Tris with 500 mM sodium chloride
Protein Concentration: *batch specific* mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: Ebola Virus VP40 (subtype Sudan, strain Gulu) (recombinant)

SDS-PAGE Analysis of Ebola Virus VP40 (subtype Sudan, strain Gulu) (recombinant).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Ebola virus (EBOV) is an enveloped and negative-stranded RNA virus, a member of the *Ebolavirus* genus, and the causative agent of Ebola virus disease (EVD), a condition characterized by a hemorrhagic fever and a high mortality rate, that is endemic to western and equatorial Africa.¹ The single-stranded RNA genome of EBOV encodes seven proteins: nucleoprotein (NP), virion protein 40 (VP40), VP35, VP30, VP24, glycoprotein (GP), and an RNA-dependent RNA polymerase (L).^{1,2} EBOV VP40 is a structural protein that is composed of an N-terminal oligomerization domain and a C-terminal domain that interacts with the host intracellular lipid bilayer.^{3,4} VP40 exhibits oligomeric state-dependent functions, such as adding viral ribonucleocapsids to viral particles when in an octameric form and has roles in viral budding in its hexameric form, when bound to the cytoplasmic side of host lipid membranes.^{1,4} EBOV VP40 is capable of forming viral-like particles in the absence of other viral proteins when expressed in mammalian cells.⁴ Cayman's Ebola Virus VP40 (subtype Sudan, strain Gulu) (recombinant) protein consists of 295 amino acids and has a calculated molecular weight of 34.5 kDa.

References

1. Rojas, M., Monsalve, D.M., Pacheco, Y., *et al.* Ebola virus disease: An emerging and re-emerging viral threat. *J. Autoimmun.* **106**, 102375 (2020).
2. Salata, C., Calistri, A., Alvisi, G., *et al.* Ebola virus entry: From molecular characterization to drug discovery. *Viruses* **11(3)**, 274 (2019).
3. Dessen, A., Volchkov, V., Dolnik, O., *et al.* Crystal structure of the matrix protein VP40 from Ebola virus. *EMBO J.* **19(16)**, 4228-4236 (2000).
4. Jasenosky, L.D., Neumann, G., Lukashovich, I., *et al.* Ebola virus VP40-induced particle formation and association with the lipid bilayer. *J. Virol.* **75(11)**, 5205-5214 (2001).

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