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Datasheet for ABIN7198901 BEBOV GP Protein (Fc Tag)

Image



Overview

Quantity:	100 µg
Target:	BEBOV GP
Origin:	Ebola Virus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BEBOV GP protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant EBOV (subtype Bundibugyo, strain Uganda 2007) GP-RBD / Glycoprotein Protein (Fc Tag)
Sequence:	Arg54-Glu201
Characteristics:	A DNA sequence encoding the Bundibugyo ebolavirus(strain Uganda 2007) GP (ACI28624.1) (Arg54-Glu201) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g protein as determined by the LAL method.

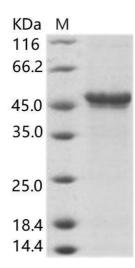
Target Details

Target:	BEBOV GP
Alternative Name:	BEBOV GP (BEBOV GP Products)
Background:	The fourth gene of the EBOV genome encodes a 16- kDa envelope-attached glycoprotein (GP)
	and a 11 kDa secreted glycoprotein (sGP). Both GP and sGP have an identical 295-residue N-

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terminus, however, they have different C-terminal sequences. Recently, great attention has beer
paid to GP for vaccines design and entry inhibitors isolation. GP is a class I fusion protein which
assembles as trimers on viral surface and plays an important role in virus entry and
attachment. Mature GP is a disulfide-linked heterodimer formed by two subunits, GP1 and GP2,
which are generated from the proteolytical process of GP precursor (pre-GP) by cellular furin
during virus assembly . The GP1 subunit contains a mucin domain and a receptor-binding
domain (RBD), the GP2 subunit has a fusion peptide, a helical heptad-repeat (HR) region, a
transmembrane (TM) domain, and a 4-residue cytoplasmic tail. The RBD of GP1 mediates the
interaction of EBOV with cellular receptor (e.g. DC-SIGN/LSIGN, TIM-1, hMGL, NPC1, β -integrins
folate receptor- α , and Tyro3 family receptors), of which TIM1 and NPC1 are essential for EBOV
entry, the mucin domain having N- and O-linked glycans enhances the viral attachment to
cellular hMGL, and participates in shielding key neutralization epitopes, which helps the virus
evades immune elimination. There are large conformation changes of GP2 during membrane
fusion, which enhance the insertion of fusion loop into cellular membrane and facilitate the
release of viral nucleocapsid core to cytoplasm.
43.1kDa
For Research Use only
Lyophilized
Please refer to the printed manual for detailed information.
Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 %
Tween80 are added as protectants before lyophilization. Please refer to the specific buffer
information in the printed manual.
information in the printed manual. 4 °C,-20 °C,-80 °C
4 °C,-20 °C,-80 °C

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Western Blotting

Image 1.

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