

Datasheet for ABIN7198907 SEBOV GP Protein (His tag)

Image



Overview

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Quantity:	100 µg
Target:	SEBOV GP
Origin:	Ebola Virus
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEBOV GP protein is labelled with His tag.

Product Details

Purpose:	Recombinant EBOV (Subtype Sudan, strain Gulu) Glycoprotein / GP Protein (aa:Met1-Asn637, His Tag)
Sequence:	Met1-Asn637
Characteristics:	A DNA sequence encoding Sudan ebolavirus (strain Uganda-00) GP (YP_138523.1) (Met1- Asn637) was expressed with a C-terminal polyhistidine tag.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method

Target Details

Target:	SEBOV GP	
Alternative Name:	SEBOV GP (SEBOV 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 been
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.

Molecular Weight:	67.9kDa
NCBI Accession:	YP_138523

Application Details

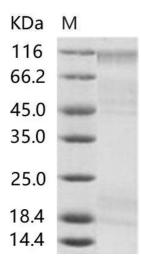
Restrictions:

For Research Use only

Handling

Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, 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.	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	

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Western	Blotting
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Image 1.

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