

Recombinant Ebola virus Glycoprotein minus the Transmembrane Region (EBOV rGPΔTM)

Catalog No: tcip3003



Available Sizes

Size: 100μg

Size: 500μg



Specifications

Application:

ELISA, WB

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 1.591 mg/mL

Recommended Dilution:

Western Blot: Quality control testing demonstrates strong detection of GP null and GP1 under reduced conditions.

Purity / Grade:

Column chromatography

Storage Instruction:

2-3 weeks at -20°C, -80°C long term

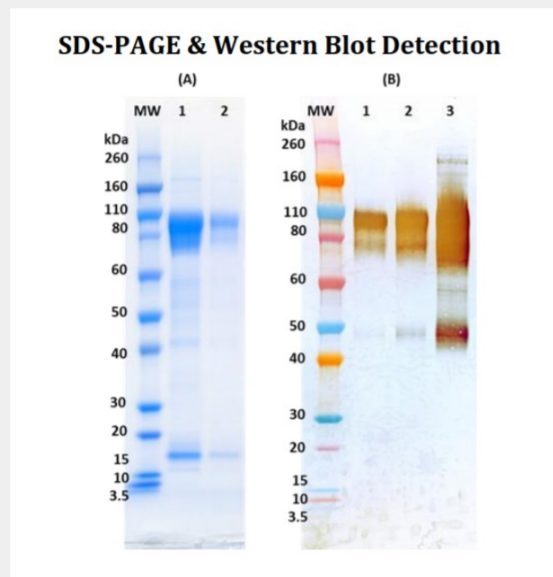
Relevance:

Recombinant glycoprotein provides a means as a control protein for immunoassays and a tool to enhance research.

Product Description

Mature, recombinant, His-tagged Ebola virus Glycoprotein minus the transmembrane domain (EBOV rGPΔTM) is supplied as purified protein. EBOV rGPΔTM is produced in Sf9 insect cells using baculovirus for expression and is purified by FPLC;

The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms.



(A) SDS-PAGE and stain demonstrating 5 µg and 1 µg (lanes 1, 2 respectively) of EBOV rG TM His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein marker. ;(B) Western blot detection of EBOV rGPΔTM at 50 ng, 100 ng and 500 ng (lanes 1-3) using rabbit anti-EBOV GP polyclonal antibody (catalog# 0301-015) at 0.5 ug/mL and antirabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data	
EBOV rGPΔTM ng/well	OD 650 nm
800.000	3.550
400.000	3.771
200.000	3.655
100.000	3.637
50.000	3.774
25.000	3.673
12.500	3.472
6.250	3.285
3.125	2.812
1.563	2.015
0.781	1.267
0.391	0.609

Plate was coated with EBOV rGPΔTM starting at 800 ng/well, serially diluted in DPBS. ;Washed plate was detected using one dilution of a positive control serum, followed with anti-IgG HRP conjugate and TMB substrate. ;OD 650 is reported. Background of EBOV rGPΔTM coated plate positive control serum was 0.071OD 650.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!