

Recombinant Sudan virus Glycoprotein minus the Transmembrane Region (SUDV rGPΔTM)

Catalog #: 0502-015

Lot #: 1711001

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

Storage: 2-3 weeks at -20°C, -80°C long term

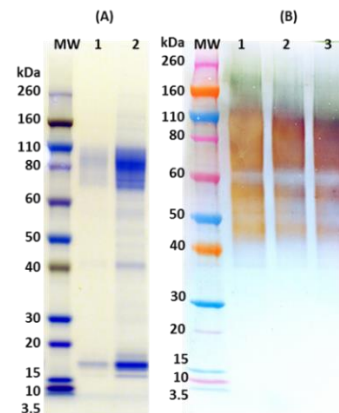
Size: 100 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of 1.059 mg/mL. The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms.

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

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

Related Products: IBT provides a wide array of anti-filovirus specific antibodies and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.

SDS-PAGE & Western Blot Detection



(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1, 2 respectively) of SUDV rGPΔTM His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein markers.

(B) Western blot detection of SUDV rGPΔTM at 200 ng, 100 ng and 50 ng (lanes 1-3). SUDV rGPΔTM was detected using IBT's anti-SUDV GP monoclonal antibody (2H5) (catalog# 0202-029) at 0.5 µg/mL and anti-mouse IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data

SUDV rGPΔTM ng/well	Mean OD ₆₅₀ nm
800.00	3.368
400.00	3.721
200.00	3.654
100.00	3.499
50.00	3.632
25.00	3.527
12.50	3.458
6.25	3.291
3.13	2.794
1.56	2.287
0.78	1.500
0.39	0.909

Plate was coated with SUDV 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. OD₆₅₀ is reported. Background of SUDV rGPΔTM coated plate without positive control serum was 0.088 OD₆₅₀.

Intended for research use only, not for human, therapeutic, or diagnostic applications.

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