

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

Catalog #: 0502-015

Lot #: 1504004

Description: Mature, recombinant, His-tagged Sudan virus Glycoprotein minus the transmembrane domain (SUDV rGPdTM) is supplied as purified protein. SUDV rGPdTM 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

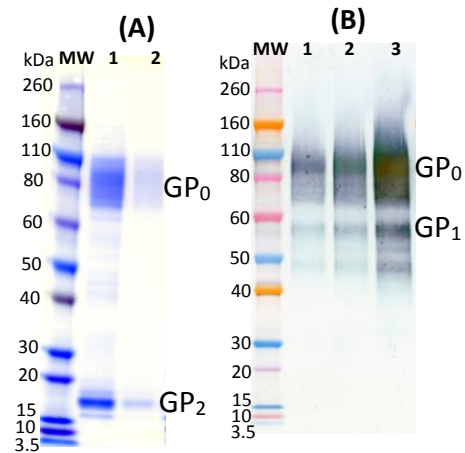
Size: 100 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **0.737 mg/mL**. The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration 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 5 µg and 1 µg (lanes 1, 2 respectively) of SUDV rGPdTM His-tag protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of SUDV rGPdTM at 50 ng, 100 ng and 500 ng (lanes 1-3). SUDV rGPdTM 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 rGPdTM ng/well	Mean OD ₆₅₀ nm
800.00	3.607
400.00	3.757
200.00	3.747
100.00	3.738
50.00	3.601
25.00	3.626
12.50	3.494
6.25	3.258
3.13	2.732
1.56	2.016
0.78	1.324
0.39	0.814

Plate was coated with SUDV rGPdTM 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 rGPdTM coated plate without positive control serum was **0.069** OD₆₅₀.

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

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