

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

Catalog #: 0502-002

Lot #: 2301002

Description: Mature, recombinant, HIS-tagged Sudan virus Glycoprotein minus the transmembrane domain (SUDV rGPdTM) is supplied as purified protein. SUDV rGPdTM is produced in mammalian cells and is purified by FPLC.

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

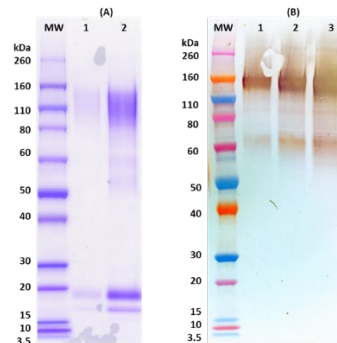
Size: 100 µg of protein is supplied in PBS at a concentration of **0.625 mg/mL**. The theoretical molecular weight of the protein is ~110-160 kDa including the HIS-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms.

Relevance: Recombinant glycoprotein provides a means for antibody development, control protein for testing, and a tool to enhance research.

Western Blot: Quality control testing demonstrates strong detection of GP null and GP1 under reduced conditions down to 50 ng when using IBT's monoclonal antibody 2H5 (cat 0202-029) at 0.5 µg/mL.

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, 5 µg (lane 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 monoclonal antibody 2H5 (cat 0202-029) at 0.5 µg/mL and anti-mouse IgG-HRP conjugate, followed by TMB substrate.

ELISA Data

SUDV GPdTM ng/well	OD 650 nm
800.00	3.506
400.00	3.420
200.00	3.442
100.00	3.474
50.00	3.483
25.00	3.474
12.50	3.459
6.25	3.244
3.13	2.944
1.56	2.420
0.78	1.484
0.39	0.848

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 **0.85 OD₆₅₀**.

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

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