4 Research Court, Suite 300
Rockville, MD 20850
877-411-2041
Services@ibtbioservices.com

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

Catalog #: 0502-001

Lot #: 1311001

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

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

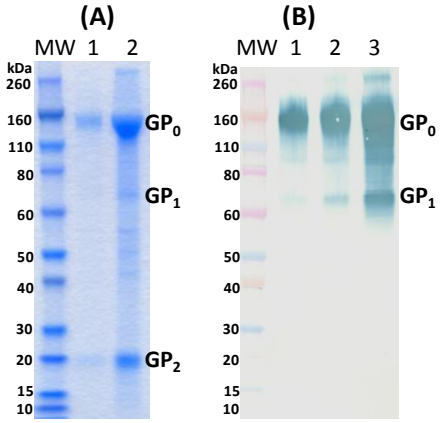
Size: 100 µg of protein is supplied in PBS at a concentration of **1.07 mg/mL**. The theoretical molecular weight of the protein is ~110-160 kDa including the HA-tag, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in 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 rGPΔTM HA-Tag protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of SUDV rGPΔTM at 50 ng, 100 ng, and 500 ng (lanes 1-3). SUDV rGPΔTM 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 GPΔTM ng/well	OD 650 nm
800.00	3.332
400.00	3.276
200.00	3.303
100.00	3.366
50.00	3.282
25.00	3.281
12.50	2.496
6.25	1.708

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. OD_{650} is reported. Background of SUDV rGPΔTM coated plate without positive control serum was **0.046** OD_{650}.