



IBT BIOSERVICES

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Recombinant Sudan virus Glycoprotein minus the transmembrane and mucin-like domain (SUDV rGPΔmuc)

Catalog #: 0512-015

Lot #: 1807003

Description: Recombinant, His-tagged Sudan virus Glycoprotein minus the transmembrane and mucin-like domain (SUDV rGPΔmuc) is supplied as purified protein. SUDV rGPΔmuc 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

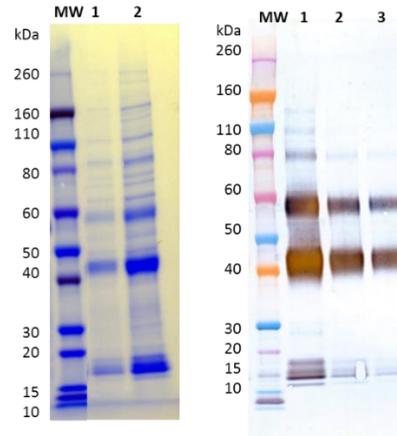
Size: 100 µg of protein supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **0.879 mg/mL**. The theoretical molecular weight of the protein is ~60 kDa including the His-tag, without glycosylation. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in a broad band 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, GP1 and GP2 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 (lane 1 and 2 respectively) of SUDV rGPΔmuc His-tag protein under denaturing and reducing conditions. MW denotes Novex® Sharp prestained protein markers. (B) Western blot detection of SUDV rGPΔmuc at 500 ng, 100 ng, and 50 ng (lanes 1, 2 and 3). SUDV rGPΔmuc was detected using IBT's internal anti-SUDV GP rabbit polyclonal antibody at 1.0 µg/mL and anti-rabbit IgG-HRP conjugate, followed by substrate.

ELISA data:

SUDV GPΔmuc (ng/well)	OD 650 nm
800.00	2.590
400.00	2.664
200.00	2.665
100.00	2.511
50.00	2.491
25.00	2.216
12.50	1.752
6.25	1.278
3.13	0.728
1.56	0.469
0.78	0.308
0.39	0.179

Plate was coated with SUDV rGPΔmuc starting at 800ng/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.

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

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