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

Recombinant Sudan Virus Soluble Glycoprotein (SUDV sGP)

Catalog #: 0570-001

Lot #: 1610002

Description: Mature, recombinant Sudan Virus Soluble Glycoprotein (SUDV sGP) containing a c-terminal HIS tag, is supplied as purified protein. SUDV sGP is produced in mammalian cells and is purified by FPLC.

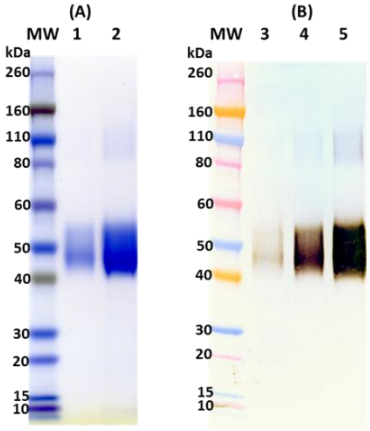
Storage: 2-3 weeks at -20°C, -80°C long term.

Size: 100 µg of protein is supplied in PBS (supplemented with glycerol, arginine and glutamic acid) at a concentration of **0.686 mg/mL**. The theoretical molecular weight of the protein is ~47 kDa. Because of the glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in a broad, diffuse band representing differing glycosylation forms.

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

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 and 2, respectively) of SUDV sGP protein under denaturing and reducing conditions. MW denotes Novex Sharp® prestained protein markers. (B) Western blot detection of SUDV sGP at 50 ng, 200 ng, and 500 ng (lanes 3-5, respectively). SUDV sGP was detected using IBT's Rabbit anti-SUDV sGP (cat 0302-030) polyclonal antibody at 0.1 µg/mL and anti-Rabbit IgG (H+L)-HRP conjugate, followed by TMB substrate.

ELISA Data

SUDV sGP (ng/well)	OD 650 nm
800.000	3.489
400.000	3.364
200.000	3.029
100.000	1.754
50.000	0.753
25.000	0.462
12.500	0.271
6.250	0.189
3.125	0.096
1.563	0.074
0.781	0.077
0.391	0.064
0.000	0.061

Plate was coated with SUDV sGP starting at 800 ng/well, serially diluted 2-fold in DPBS. Washed plate was detected using 1 µg/mL of Rabbit anti-SUDV sGP followed with anti-Rabbit IgG (H+L)-HRP conjugate and TMB substrate. OD_{650} is reported.