

## Recombinant Sudan virus VP40 matrix protein (SUDV VP40)

Catalog #: 0569-001

Lot #: 1605004

**Description:** Recombinant, tag-free, purified Sudan virus (SUDV) matrix protein (VP40) is expressed in *E. coli* and the recombinant protein purified using FPLC.

**Storage:** -80°C. It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles.

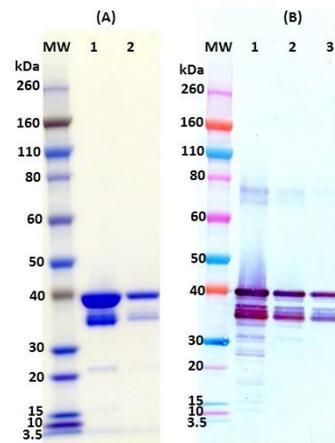
**Size:** 100 µg of protein is supplied in HEPES buffer pH 7.5 containing sodium chloride, 5% glycerol and 0.1% Triton-X, at a concentration of **0.833 mg/mL**. The theoretical molecular weight of the protein is ~35 kDa.

**Relevance:** Recombinant SUDV VP40 matrix protein provides a means as a control protein for immunoassays and a tool to enhance Filovirus research.

### Related Products:

*IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins and other infectious disease reagents. Please see our website, [www.ibtbioservices.com](http://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) of SUDV VP40 protein under denaturing and reducing conditions. MW denotes Novex® Sharp pre-stained protein markers. (B) Western blot detection of SUDV VP40 at 500 ng, 100 ng, and 50 ng (lanes 1-3). SUDV VP40 was detected using IBT's polyclonal antibody at 100 ng/mL (Cat. # 0302-001) and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

### ELISA Data:

SUDV VP40 ng/well	OD 650 nm
800.00	3.421
400.00	3.538
200.00	3.370
100.00	3.174
50.00	2.727
25.00	2.278
12.50	1.791
6.25	1.202
3.13	0.623
1.56	0.463
0.78	0.279
0.39	0.178
Background Control	0.072

Plate was coated with SUDV VP40 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<sub>650</sub> is reported.

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

*The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, Inc.*

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