

Product Data Sheet

Cat # RP-1418

SARS-Associated Coronavirus Envelope Recombinant

Size: 100ug

SARS Coronavirus is an enveloped virus containing three outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein plays an important role in virus infection cycle and is the primary target of neutralizing antibodies. Immunoreactive with sera of SARS-infected individuals.

**Source:** The E.coli derived 43 kDa recombinant protein contains the N-terminus Envelope protein 1-76 amino acids immunodominant regions. Purified by proprietary chromatographic technique. 50mM Tris-HCl, 60mM NaCl, and 50% glycerol.

**Applications and Suggested Dilutions:** Protein is >95% pure as determined by 10% PAGE (Coomassie staining). Antigen in ELISA and Western blots, excellent antigen for detection of SARS with minimal specificity problems. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Protein is shipped at ambient temperature. Upon arrival, store at -20°C. Five year frozen, 6 month at +4°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-1418

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