

**DATA SHEET**

**Product Name:** Coronavirus Nucleoprotein (SARS-CoV; 1-49, 192-220)

**Catalog #:** CV-3009

**Source:** E. coli

**Molecular Mass:** 35 kDa

**Protein Purity:** >95%

**Sequence:** aa 1-49; 192-220

**Supplied As:** Liquid in 50 mM Tris-HCl, 60 mM NaCl with 50% glycerol

**Storage:** Store at 2-8°C for short term ( $\leq$  1 week). For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing.

**Description:**

Severe acute respiratory syndrome (SARS) is a viral respiratory illness caused by a coronavirus called SARS-associated coronavirus (SARSCoV). SARS coronavirus belongs to a family of enveloped coronaviruses. Coronaviruses are enveloped, single-stranded, positive-sense RNA viruses that belong to the subfamily Coronavirinae. The coronavirus genome encodes a spike protein (S), an envelope protein, a membrane protein, and a nucleoprotein in this order. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Coronaviruses can cause a range of symptoms varying from mild symptoms such as the common cold to more serious respiratory illnesses. SARS-CoV and MERS-CoV cause severe respiratory illness. Upon infecting host cells, coronaviruses assemble a multi-subunit RNA-synthesis complex of viral non-structural proteins (nsp) responsible for the replication and transcription of the viral genome.

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