

**DATA SHEET**

**Product Name:** Recombinant Coronavirus Spike Protein (SARS-CoV S1; His tag)

**Catalog #:** CV-3015

**Alt:** Spike glycoprotein, S glycoprotein, E2, Peplomer protein

**Source:** E. coli

**Purity:** >90%

**Sequence:** aa 1-53, 90-115, 171-205 (His tag)

**Supplied As:** Liquid in 10 mM Phosphate Buffered Saline, pH 7.2

**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:** SARS-CoV is an enveloped, single and positive-stranded RNA virus. Cell entry of severe acute respiratory syndrome coronavirus (SARS-CoV) is mediated by the viral spike (S) protein. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. For viral entry, the surface unit (S1) of SARS S binds to the cellular receptor angiotensin converting enzyme 2 (ACE2) and the transmembrane unit (S2) then fuses the viral membrane with a host cell membrane. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV. Because the S protein of SARS-CoV is involved in receptor recognition, as well as virus attachment and entry, it represents one of the most important targets for the development of SARS vaccines and therapeutics.

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