DATA SHEET

Product Name:	(SARS-CoV-2) Spike Protein (RBD)
Catalog #:	CV-3038
Source:	Mammalian Cell
Protein Purity:	>95%
Sequence:	Peptide composed of amino acids 331-524 of Spike Protein Receptor Binding Domain (RBD). Protein contains Fc-tag.
Supplied As:	Liquid in 10 mM Phosphate Buffered Saline, pH 7.0
Storage:	Store at 2-8˚C for short Term (<2 weeks). Long Term: -20˚C. 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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