

## Recombinant SARS-CoV(Beijing 02) S(1-1190) protein

Cat. No. SARSS-102V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant SARS-CoV(Beijing 02) S(1-1190) protein was expressed in HEK293 cells.
<b>Species</b>	SARS-CoV
<b>Source</b>	HEK293
<b>Description</b>	<p>Spike protein S1: Attaches the virion to the cell membrane by interacting with host receptor, initiating the infection (By similarity). Binding to human ACE2 and CLEC4M/DC-SIGNR receptors and internalization of the virus into the endosomes of the host cell induces conformational changes in the S glycoprotein. Proteolysis by cathepsin CTSL may unmask the fusion peptide of S2 and activate membranes fusion within endosomes. Spike protein S2: Mediates fusion of the virion and cellular membranes by acting as a class I viral fusion protein. Under the current model, the protein has at least three conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes. Spike protein S2': Acts as a viral fusion peptide which is unmasked following S2 cleavage occurring upon virus endocytosis.</p>
<b>Form</b>	Each vial contains 100 ug purified protein (1mg/ml) in PBS (pH7.4).

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<b>Purity</b>	>95%
<b>Applications</b>	WB standard, Ab ELISA, immunogen, etc.
<b>Usage</b>	For research use only, not for use in diagnostic procedures.
<b>Storage</b>	Store at -80 centigrade, Avoid freeze/thaw cycle.
<b>Concentration</b>	1 mg/ml

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">S</a>
<b>Official Symbol</b>	<a href="#">S</a>
<b>Synonyms</b>	E2
<b>Gene ID</b>	<a href="#">1489668</a>
<b>Protein Refseq</b>	<a href="#">NP_828851.1</a>
<b>UniProt ID</b>	<a href="#">P59594</a>

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