

Recombinant SARS-CoV-2 S Protein, mFc-tagged

Cat. No. S-31S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD Protein is produced by our Mammalian expression system and the target gene encoding Arg319-Pro589 is expressed with a mFc tag at the C-terminus.

Species SARS-CoV-2

Source Human Cells

Description Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM etc.. 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. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

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Form	Supplied as a 0.2 µm filtered solution of PBS, PH7.4.
Molecular Mass	Predicted Molecular Weight: 57kDa Apparent Molecular Weight: 60-80kDa, reducing conditions.
AA Sequence	Arg319-Pro589
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	> 85%
Storage	Reconstituted protein solution should be stored at ≤ -20 centigrade.
Quality Statement	Purity: Greater than 85% as determined by reducing SDS-PAGE.
Shipping	The product is shipped on dry ice pack.

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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