

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

Cat. No. S-01S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV S Protein RBD is produced by our Mammalian expression system and the target gene encoding Asn331-Val524 is expressed with a mFc tag at the C-terminus.
Species	SARS-CoV-2
Source	Human Cells
ProteinLength	331-524 a.a.
Description	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.
Form	Supplied as a 0.2 µM filtered solution of PBS, pH 7.4.

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Bio-activity	Immobilized Human ACE-2-His at 10µg/ml (100 µl/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein RBD-mFc. The ED50 of SARS-CoV-2 (2019-nCoV) Spike Protein RBD-mFc is 62 ng/ml.
Molecular Mass	Predicted Molecular Weight: 47.9kDa Apparent Molecular Weight: 50-60kDa, reducing conditions.
AA Sequence	Asn331-Val524
Endotoxin	NA
Purity	> 95%
Applications	Immunogen, calibrator or standard.
Usage	Research Use Only
Storage	Reconstituted protein solution should be stored at ≤ -20 centigrade.
Quality Statement	Purity: Greater than 95% 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	S protein RBD; 2019-nCoV S protein RBD; spike glycoprotein

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Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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