

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

Cat. No. S-33S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV S-RBD is produced by our Mammalian expression system and the target gene encoding Arg319-Phe541(N501Y) is expressed with a Fc tag at the C-terminus.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	319-541 a.a.
Description	<p>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.</p>
Form	Supplied as a 0.2 µm filtered solution of PBS, PH7.4.

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Molecular Mass	Predicted Molecular Weight: 52.1kDa Apparent Molecular Weight: 58-65kDa, reducing conditions.
AA Sequence	Arg319-Phe541(N501Y)
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	> 95%
Applications	Immunogen, calibrator or standard
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Quality Statement	Purity: greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.

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; 2019-nCoV S Protein RBD; 2019-nCoV SRBD
Gene ID	43740568
Protein Refseq	YP_009724390.1

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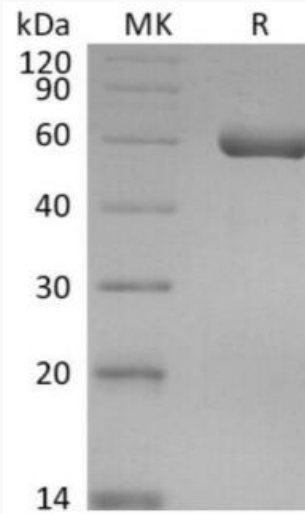
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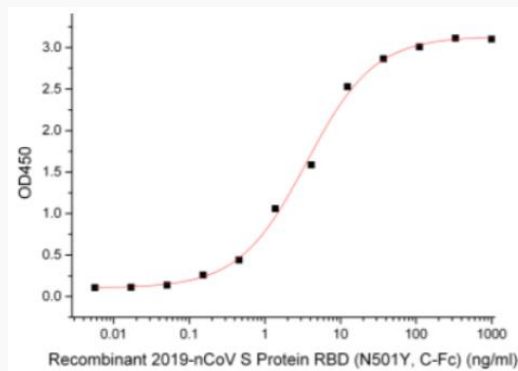
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P0DTC2

SDS PAGE



Bioactivity

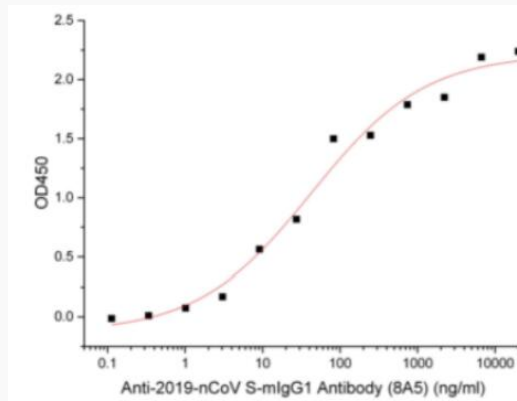


Immobilized Human ACE-2-His at 2 μ g/ml (100 μ l/well) can bind 2019-nCoV S Protein RBD (N501Y, C-Fc). The ED50 of 2019-nCoV S Protein RBD (N501Y, C-Fc) is 3.57 ng/ml.

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Bioactivity

Immobilized 2019-nCoV S Protein RBD (N501Y, C-Fc) at 2 μ g/ml (100 μ l/well) can bind Anti-2019-nCoV S-mIgG1 Antibody (8A5). The ED₅₀ of Anti-2019-nCoV S-mIgG1 Antibody (8A5) is 42.89 ng/ml.

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