

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

Cat. No. S-17S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV S protein RBD Protein is produced by our Mammalian expression system and the target gene encoding Arg319-Phe541 is expressed with a 6His tag at the C-terminus.
Species	SARS-CoV-2
Source	Human Cells
ProteinLength	319-541 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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Molecular Mass	Predicted Molecular Weight: 25.9kDa Apparent Molecular Weight: 35kDa, reducing conditions.
AA Sequence	Arg319-Phe541
Endotoxin	NA
Purity	> 95%
Usage	Research Use Only
Storage	Store at ≤-70 centigrade, stable for 6 months after receipt. Store at ≤-70 centigrade, stable for 3 months under sterile conditions after opening. 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.

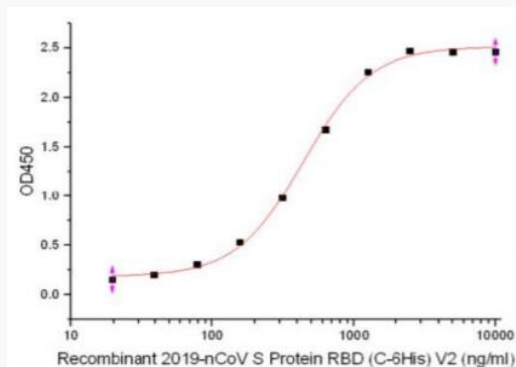
GENE INFORMATION

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

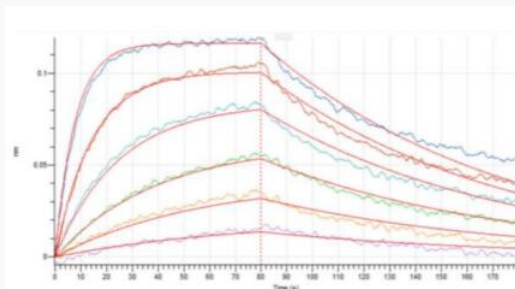
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UniProt ID
P0DTC2
Bioactivity


Immobilized 2019-nCoV S Protein RBD-His V2 at 5 μ g/ml (100 μ l/well) can bind Human ACE-2-Fc. The ED50 of Recombinant Human ACE-2-Fc is 417 ng/ml.



Loaded Human ACE-2-Fc on Protein A Biosensor, can bind 2019-nCoV S Protein RBD V2-His with an affinity constant of 17.85 nM as determined in BLI assay.

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