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

Cat. No. S-19S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV S1 Protein is produced by our Mammalian expression system and the target gene encoding Gln14-Arg685 is expressed with a 10His tag at the C-terminus.
Species	SARS-CoV-2
Source	Human Cells
ProteinLength	14-685 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.

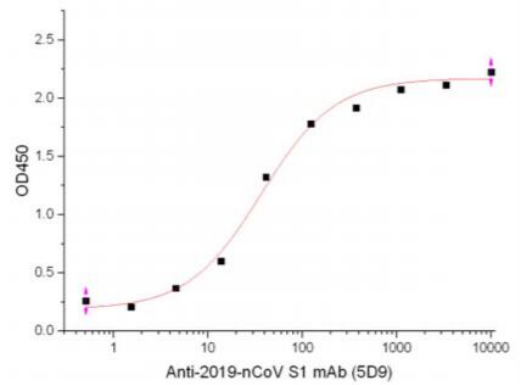
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Predicted Molecular Weight: 76.6kDa Apparent Molecular Weight: 100-130kDa, reducing conditions.
AA Sequence	Gln14-Arg685
Endotoxin	NA
Purity	> 90%
Usage	Research Use Only
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Quality Statement	Purity: greater than 90% 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	S1 protein; 2019-nCoV S1 protein; coronavirus S1 Protein; cov S1 Protein
Gene ID	43740568
Protein Refseq	YP_009724390.1

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UniProt ID	P0DTC2
Bioactivity	 Immobilized 2019-nCoV S1 Protein-His at 2μg/ml (100 μl/well) can bind Anti-2019-nCoV S1 mAb. The ED50 of Anti-2019-nCoV S1 mAb (5D9) is 36.9 ng/ml.

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