

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

Cat. No. S-02S 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 Asn331-Val524 is expressed with a 6His 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	Predicted Molecular Weight: 22.6kDa Apparent Molecular Weight: 28-35kDa, reducing conditions.
<b>AA Sequence</b>	Asn331-Val524
<b>Endotoxin</b>	NA
<b>Purity</b>	> 95%
<b>Usage</b>	Research Use Only
<b>Storage</b>	Reconstituted protein solution should be stored at ≤ -20 centigrade.
<b>Quality Statement</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE.
<b>Shipping</b>	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a>
<b>Official Symbol</b>	<a href="#">S</a>
<b>Synonyms</b>	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein
<b>Gene ID</b>	<a href="#">43740568</a>
<b>Protein Refseq</b>	<a href="#">YP_009724390.1</a>
<b>UniProt ID</b>	<a href="#">P0DTC2</a>

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