

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

Cat. No. S-27S 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(D614G) 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, PH7.4.

 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: 76.6kDa Apparent Molecular Weight: 100-130kDa, reducing conditions.
<b>AA Sequence</b>	Gln14-Arg685(D614G)
<b>Endotoxin</b>	Less than 0.1 ng/ug (1 EU/ug).
<b>Purity</b>	> 90%
<b>Storage</b>	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
<b>Quality Statement</b>	Purity: greater than 90% 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

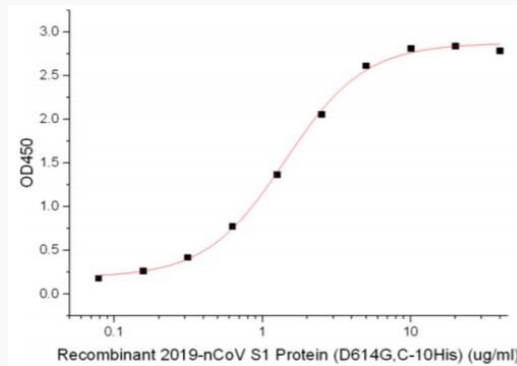
<b>Gene Name</b>	<a href="#">S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a>
<b>Official Symbol</b>	<a href="#">S</a>
<b>Synonyms</b>	S1 protein; 2019-nCoV S1 protein; coronavirus S1 Protein; cov S1 Protein
<b>Gene ID</b>	<a href="#">43740568</a>
<b>Protein Refseq</b>	<a href="#">YP_009724390.1</a>
<b>UniProt ID</b>	<a href="#">P0DTC2</a>

 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

**Bioactivity**



Immobilized Human ACE-2-Fc at 5 $\mu$ g/ml (100  $\mu$ l/well) can bind 2019-nCoV S1-His (D614G). The ED50 of bind 2019-nCoV S1-His(D614G) is 1.43  $\mu$ g/ml.

 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