

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

Cat. No. S-07S    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant 2019-nCoV S protein RBD Protein is produced by our Mammalian expression system and the target gene encoding Arg319-Phe541(R408I) is expressed with a 6His tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | SARS-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 319-541 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <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. Some findings indicated that the mutated viruses may be evolved to acquire remarkably increased infectivity.</p> |

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|                    |                                                        |
|--------------------|--------------------------------------------------------|
| <b>Form</b>        | Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. |
| <b>AA Sequence</b> | Arg319-Phe541(R408I)                                   |
| <b>Endotoxin</b>   | NA                                                     |
| <b>Usage</b>       | Research Use Only                                      |
| <b>Shipping</b>    | Dry ice/ice packs                                      |

## 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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