

# Recombinant 2019-nCoV Spike S1(N501Y) Protein, His-tagged

**Cat. No.** Spike-046V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant 2019-nCoV Spike S1(N501Y) Protein(YP_009724390.1)(Val 16 - Arg 685), fused to His Tag, is expressed from human 293 cells (HEK293). It contains AA Val 16 - Arg 685 (Accession # QHD43416.1(N501Y)).                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Sars-Cov-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Val 16 - Arg 685                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | It's been reported that Coronavirus 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. |
| <b>Form</b>             | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 76.9 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | For long term storage, the product should be stored at lyophilized state at -20°C or lower.<br>Please avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                           |

 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

This product is stable after storage at:

-20°C to -70°C for 12 months in lyophilized state;

-70°C for 3 months under sterile conditions after reconstitution.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b> | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ] |
|------------------|----------------------------------------------------------------------------|

|                        |   |
|------------------------|---|
| <b>Official Symbol</b> | S |
|------------------------|---|

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|-----------------|-----------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | Spike, S1 protein, Spike glycoprotein Subunit1, S glycoprotein Subunit1, Spike protein S1, COVID-19 |
|-----------------|-----------------------------------------------------------------------------------------------------|

|                |          |
|----------------|----------|
| <b>Gene ID</b> | 43740568 |
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|-----------------------|----------------|
| <b>Protein Refseq</b> | YP_009724390.1 |
|-----------------------|----------------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | P0DTC2 |
|-------------------|--------|

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