

# Active Recombinant COVID-19 Spike S1 protein (N501Y), His-tagged

**Cat. No.** Spike-4884V    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant COVID-19 protein (N501Y)(Val 16 - Arg 685), fused with His tag, was expressed in HEK293.

### Species

Sars-CoV-2

### Source

HEK293

### ProteinLength

Val 16 - Arg 685

### Form

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

### Bio-activity

Immobilized SARS-CoV-2 S1 protein (N501Y), His Tag at 2 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.1-3 ng/mL. Immobilized SARS-CoV-2 S1 protein (N501Y), His Tag at 2 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 with a linear range of 0.1-3 ng/mL. Immobilized SARS-CoV-2 S1 protein (N501Y), His Tag at 2 µg/mL (100 µL/well) can bind Biotinylated Human ACE2, His, Avitag with a linear range of 0.1-3 ng/mL.

### Molecular Mass

This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 76.9 kDa. The protein migrates as 110-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

 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>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.  |
| <b>Purity</b>         | >90% as determined by SDS-PAGE.   |
| <b>Storage</b>        | For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| <b>Reconstitution</b> | 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> | Spike   |
| <b>Synonyms</b>        | Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron |
| <b>Gene ID</b>         | 43740568  |
| <b>Protein Refseq</b>  | YP_009724390.1  |
| <b>UniProt ID</b>      | P0DTC2  |

 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