

# Active Recombinant COVID-19 Spike protein, His-tagged

**Cat. No.** Spike-4842V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant COVID-19 protein(Val 16 - Pro 1213), fused with His tag, was expressed in HEK293.  |
| <b>Species</b>          | Sars-CoV-2   |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | Val 16 - Pro 1213  |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS with trehalose as protectant.  |
| <b>Bio-activity</b>     | Immobilized Human ACE2, Fc Tag at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein, His Tag, Super stable trimer with a linear range of 1-39 ng/mL. Immobilized Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein, His Tag, Super stable trimer with a linear range of 0.2-3 ng/mL. Immobilized SARS-CoV-2 S protein, His Tag, Super stable trimer at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 with a linear range of 0.1-6 ng/mL. |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 138.0 kDa. The protein migrates as 150-200 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.  |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.   |

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|                       |  |
|-----------------------|--|
| <b>Purity</b>         | >95% as determined by SDS-PAGE.>90% as determined by SEC-MALS.   |
| <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>       | <a href="#">S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a>                  |
| <b>Official Symbol</b> | <a href="#">Spike</a>   |
| <b>Synonyms</b>        | Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron |
| <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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