

# Active Recombinant COVID-19 Spike RBD protein, mFc-tagged

**Cat. No.** Spike-4739V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant COVID-19 protein(Arg 319 - Phe 541), fused with mFc tag, was expressed in HEK293.                                                                                                            |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Arg 319 - Phe 541                                                                                                                                                                                        |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS,pH7.4. Normally trehalose is added as protectant before lyophilization.                                                                                |
| <b>Bio-activity</b>     | Immobilized Human ACE2, His Tag at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD, Mouse IgG2a Fc Tag with a linear range of 0.1-2 ng/mL.                                                       |
| <b>Molecular Mass</b>   | This protein carries a mouse IgG2a Fc tag at the C-terminus.The protein has a calculated MW of 52.0 kDa. The protein migrates as 60-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                               |
| <b>Purity</b>           | >95% 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:                                            |

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-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**

**Gene Name** S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]

**Official Symbol** Spike

**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron

**Gene ID** 43740568

**Protein Refseq** YP\_009724390.1

**UniProt ID** P0DTC2

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