

# Active Recombinant COVID-19 Spike RBD Protein (L452R, T478K), His-Avi-tagged, Biotinylated

**Cat. No.** Spike-4706V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Biotinylated Recombinant COVID-19 Protein (L452R, T478K)(Arg 319 - Lys 537), fused with His and Avi tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Arg 319 - Lys 537                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | <p>Immobilized Biotinylated SARS-CoV-2 Spike RBD Protein (L452R, T478K), His,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Human ACE2, Fc Tag with a linear range of 0.4-1 ng/mL.</p> <p>Immobilized Biotinylated SARS-CoV-2 Spike RBD Protein (L452R, T478K), His,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 with a linear range of 0.4-1 ng/mL.</p> <p>Immobilized Human ACE2, Fc Tag at 2 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike RBD Protein (L452R, T478K), His,Avitag with a linear range of 20-78 ng/mL.</p> <p>Immobilized Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike RBD Protein (L452R, T478K), His,Avitag with a linear range of 0.2-1 ng/mL.</p> |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag)The protein has a calculated MW of 28.3 kDa. The protein migrates as 33-40 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>         | >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.                                                                                                      |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                             |

## 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                                                                                              |

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**UniProt ID**

P0DTC2

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