

# Active Recombinant COVID-19 Spike RBD Protein, His,Avitag (BA.2.12.1/Omicron), His-Avi-tagged, Biotinylated

Cat. No. Spike-4641V Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated Recombinant COVID-19 Protein, His,Avitag (BA.2.12.1/Omicron)(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. Normally trehalose is added as protectant before lyophilization.
<b>Bio-activity</b>	Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (BA.2.12.1/Omicron) with a linear range of 1-63 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (BA.2.12.1/Omicron) 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 0.1-8 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (BA.2.12.1/Omicron) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 Spike RBD Broadly Neutralizing Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (BA.2.12.1/Omicron) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 Spike RBD

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Antibody, Mouse IgG1 (Omicron Specific) with a linear range of 0.2-4 ng/mL.

**Molecular Mass**

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag). The protein has a calculated MW of 28.4 kDa. The protein migrates as 34-38 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

**Storage**

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.

**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.

**Conjugation**

Biotin

## 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

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**Protein Refseq** YP\_009724390.1

**UniProt ID** P0DTC2

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