

# Active Recombinant COVID-19 Spike RBD Protein, His Tag (BA.2.38/Omicron), His-tagged

Cat. No. Spike-4638V Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant COVID-19 Protein, His Tag (BA.2.38/Omicron)(Arg 319 - Lys 537), fused with His tag, was expressed in HEK293.

### Species

Sars-CoV-2

### Source

HEK293

### ProteinLength

Arg 319 - Lys 537

### Form

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

### Bio-activity

Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD, His Tag (BA.2.38/Omicron) with a linear range of 2-125 ng/mL. Immobilized SARS-CoV-2 Spike RBD, His Tag (BA.2.38/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 with a linear range of 0.1-1 ng/mL. Immobilized SARS-CoV-2 Spike RBD, His Tag (BA.2.38/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike RBD Broadly Neutralizing Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL. Immobilized SARS-CoV-2 Spike RBD, His Tag (BA.2.38/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (Omicron Specific) with a linear range of 0.1-8 ng/mL.

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|                       |   |
|-----------------------|---|
| <b>Molecular Mass</b> | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.7 kDa. The protein migrates as 33-37 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. >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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