

# Active Recombinant COVID-19 Spike RBD Protein, His Tag (XBB.1.5/Omicron), His-tagged

**Cat. No.** Spike-4625V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant COVID-19 Protein, His Tag (XBB.1.5/Omicron)(Arg 319 - Lys 537), fused with His 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>     | Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD Protein, His Tag (XBB.1.5/Omicron) with a linear range of 8-63 ng/mL. Immobilized SARS-CoV-2 Spike RBD Protein, His Tag (XBB.1.5/Omicron) at 1 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.1-3 ng/mL. Immobilized SARS-CoV-2 Spike RBD Protein, His Tag (XBB.1.5/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) with a linear range of 0.1-0.8 ng/mL. |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.6 kDa. The protein migrates as 35-42 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>        | Less than 1.0 EU per                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | 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.                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                     |
| <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                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>       | P0DTC2                                                                                                                                                                                                                                                                              |