

## Active Recombinant COVID-19 Spike S2 protein, His Tag (BA.1/Omicron), His-tagged

**Cat. No.** Spike-4613V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant COVID-19 protein, His Tag (BA.1/Omicron)(Ser 686 - Pro 1213), fused with His tag, was expressed in HEK293.                                                                                   |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Ser 686 - Pro 1213                                                                                                                                                                                       |
| <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 SARS-CoV-2 Spike S2 protein, His Tag (BA.1/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike S2 protein Antibody, Human IgG4) with a linear range of 0.01-1.6 ng/mL.          |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 59.9 kDa. The protein migrates as 70-80 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.                                                                                                                                                                          |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>       | 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                                                                                                      |

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