

## Active Recombinant COVID-19 Spike Protein, His Tag (BA.3/Omicron), His-tagged

Cat. No. Spike-4800V Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant COVID-19 Protein, His Tag (BA.3/Omicron)(Val 16 - Pro 1213), fused with His tag, was expressed in HEK293.  |
| <b>Species</b>          | Sars-CoV-2   |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | Val 16 - Pro 1213  |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS. 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 SARS-CoV-2 Spike Trimer, His Tag (BA.3/Omicron) with a linear range of 0.078-2.5 µg/mL. Immobilized SARS-CoV-2 Spike Trimer, His Tag (BA.3/Omicron) at 1 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.2-25 ng/mL. Immobilized SARS-CoV-2 Spike Trimer, His Tag (BA.3/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 0.1-13 ng/mL. Immobilized SARS-CoV-2 Spike Trimer, His Tag (BA.3/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Mouse IgG1 (AM122) with a linear range of 0.1-6 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 137.7 kDa. The protein migrates as 160-200 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

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|------------------------|---|
| <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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