# Active Recombinant COVID-19 Spike Protein, His Tag (BQ.1.1/Omicron), His-tagged

**Cat. No.** Spike-4763V **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant COVID-19 Protein, His Tag (BQ.1.1/Omicron)(Val 16 - Pro 1213), fused with His tag, was expressed in HEK293. |
| **Species** | Sars-CoV-2 |
| **Source** | HEK293 |
| **ProteinLength** | Val 16 - Pro 1213 |
| **Form** | Lyophilized from 0.22 μm filtered solution in PBS with trehalose as protectant. |
| **Bio-activity** | Immobilized Human ACE2, Fc Tag at 5 μg/mL (100 μL/well) can bind SARS-CoV-2 Spike Trimer, His Tag (BQ.1.1/Omicron) with a linear range of 0.2-4 ng/mL.Immobilized SARS-CoV-2 Spike Trimer, His Tag (BQ.1.1/Omicron) at 1 μg/mL (100 μL/well) can bind Human ACE2, Fc Tag with a linear range of 0.2-2 ng/mL.Immobilized SARS-CoV-2 Spike Trimer, His Tag (BQ.1.1/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 0.1-3 ng/mL. |
| **Molecular Mass** | This protein carries a polyhistidine tag at the C-terminusThe protein has a calculated MW of 137.7 kDa. The protein migrates as 180-200 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |

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| **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. |

## GENE INFORMATION

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| **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 |
| **Protein Refseq** | YP_009724390.1 |
| **UniProt ID** | P0DTC2 |

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