

Active Recombinant COVID-19 Spike RBD Protein, His Tag (BF.7&BA.4.6/Omicron), His-tagged

Cat. No. Spike-4634V Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant COVID-19 Protein, His Tag (BF.7&BA.4.6/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 with trehalose as protectant. |
| Bio-activity | Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD, His Tag (BF.7&BA.4.6/Omicron) with a linear range of 4-63 ng/mL. Immobilized SARS-CoV-2 Spike RBD, His Tag (BF.7&BA.4.6/Omicron) at 1 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.1-8 ng/mL. Immobilized SARS-CoV-2 Spike RBD, His Tag (BF.7&BA.4.6/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 (BF.7&BA.4.6/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. |
| Molecular Mass | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated |

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|-----------------------|---|
| | MW of 26.6 kDa. The protein migrates as 34-38 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| 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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