

Active Recombinant COVID-19 Spike Protein, His,Avitag (BA.2.75.2/Omicron), His-Avi-tagged, Biotinylated

Cat. No. Spike-4758V Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Biotinylated Recombinant COVID-19 Protein, His,Avitag (BA.2.75.2/Omicron)(Val 16 - Pro 1213), fused with His and Avi 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 Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag (BA.2.75.2/Omicron) with a linear range of 1-63 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag (BA.2.75.2/Omicron) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 Spike RBD Broadly Neutralizing Antibody, Human IgG1 with a linear range of 0.1-1 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag (BA.2.75.2/Omicron) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) with a linear range of 0.001-0.005 µg/mL. |
| Molecular Mass | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag)The protein has a calculated MW of 139.6 kDa. The protein migrates as 180- |

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| | 210 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. |
| Conjugation | Biotin |

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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