

Active Recombinant COVID-19 Spike protein RBD (K417T, E484K, N501Y), His-tagged, Biotinylated

Cat. No. Spike-4716V Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Biotinylated Recombinant COVID-19 protein RBD (K417T, E484K, N501Y)(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. Normally trehalose is added as protectant before lyophilization. |
| Bio-activity | Immobilized Human ACE2, Fc Tag at 1 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), His,Avitag with a linear range of 2-78 ng/mL. Immobilized Biotinylated SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), His,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Human ACE2, Fc Tag with a linear range of 0.4-3 ng/mL. Immobilized Biotinylated SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), His,Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 with a linear range of 0.078-2.5 µg/mL. |
| Molecular Mass | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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| | (Avitag). The protein has a calculated MW of 28.2 kDa. The protein migrates as 33-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Endotoxin | Less than 1.0 EU per µg by the LAL method. |
| Purity | >90% as determined by SDS-PAGE. |
| 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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