

Active Recombinant COVID-19 Spike Protein (C136F, Y144del, R190S, D215G, LA242-243del, Y449H, E484K, N501Y, D614G, H655Y, N679K, T716I, T859N), His-Avi-tagged, Biotinylated

Cat. No. Spike-4817V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant COVID-19 Protein (C136F, Y144del, R190S, D215G, LA242-243del, Y449H, E484K, N501Y, D614G, H655Y, N679K, T716I, T859N)(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. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Human ACE2, Fc Tag with a linear range of 0.1-3 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag at 5 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 with a linear range of 0.2-6 ng/mL. Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike Trimer, His,Avitag with a linear range of 2-39 ng/mL. Immobilized Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike

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Trimer, His,Avitag with a linear range of 0.001-0.05 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 139.5 kDa. The protein migrates as 180-220 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

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

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Protein Refseq	YP_009724390.1
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UniProt ID	P0DTC2
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