

Active Recombinant COVID-19 Spike RBD Protein (L452Q, F490S), His-Avi-tagged, Biotinylated

Cat. No. Spike-4697V Lot. No. (See product label)

SPECIFICATION

Product Overview

Biotinylated Recombinant COVID-19 Protein (L452Q, F490S)(Arg 319 - Lys 537), fused with His and Avi 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 Biotinylated SARS-CoV-2 Spike RBD, 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 0.1-3 ng/mL. Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag 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 with a linear range of 0.1-2 ng/mL. Immobilized Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike RBD, His,Avitag with a linear range of 2-156 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 RBD, His,Avitag with a linear range of 0.1-3 ng/mL.

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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 28.2 kDa. The protein migrates as 33-38 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.
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
Protein Refseq	YP_009724390.1

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UniProt ID

P0DTC2

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