

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

Cat. No. Spike-4714V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 protein RBD (K417T, E484K, N501Y)(Arg 319 - Lys 537), fused with Fc 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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag at 2 µg/mL (100 µL/well) can bind Human ACE2, His Tag with a linear range of 39-156 ng/mL. Immobilized Human ACE2, His Tag at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag with a linear range of 0.1-0.8 ng/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 51.1 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per

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	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	
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