Active Recombinant COVID-19 Spike S1 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H), Fc-tagged

Cat. No. Spike-4880V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H)(Val 16 - Arg 685), fused with Fc tag, was expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Val 16 - Arg 685
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 0.2 M Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human ACE2, His Tag at 2 μg/mL (100 μL/well) can bind SARS-CoV-2 S1 protein, Fc Tag with a linear range of 0.4-6 ng/mL.Immobilized SARS-CoV-2 S1 protein, Fc Tag at 2 μg/mL (100 μL/well) can bind Human ACE2, His Tag with a linear range of 0.078-0.156 μg/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the C-terminus.The protein has a calculated MW of 101.1 kDa. The protein migrates as 125-150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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Purity	>95% 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.

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

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