

## 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

<b>Product Overview</b>	Recombinant COVID-19 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H)(Val 16 - Arg 685), fused with Fc tag, was expressed in HEK293.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Val 16 - Arg 685
<b>Form</b>	Lyophilized from 0.22 $\mu$ m 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.
<b>Bio-activity</b>	Immobilized Human ACE2, His Tag at 2 $\mu$ g/mL (100 $\mu$ L/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 $\mu$ g/mL (100 $\mu$ L/well) can bind Human ACE2, His Tag with a linear range of 0.078-0.156 $\mu$ g/mL.
<b>Molecular Mass</b>	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.
<b>Endotoxin</b>	Less than 1.0 EU per $\mu$ g by the LAL method.

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<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]
<b>Official Symbol</b>	Spike
<b>Synonyms</b>	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron
<b>Gene ID</b>	43740568
<b>Protein Refseq</b>	YP_009724390.1
<b>UniProt ID</b>	P0DTC2

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