

# Active Recombinant COVID-19 Spike protein S1 subunit receptor binding domain (RBD), mFc-tagged

**Cat. No.** Spike-19V    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant COVID-19 Spike protein S1 subunit receptor binding domain (RBD) was fused to Mouse IgG1 Fc tag at C-terminus and expressed in human cells.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Arg319-Phe541
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4
<b>Bio-activity</b>	<p>1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2<math>\mu</math>g/mL (100<math>\mu</math>L/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag), the EC50 of SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag) is 10-30 ng/mL.</p> <p>2. Loaded Human ACE2 Protein (His tag) on SA Biosensor, can bind SARS-CoV-2/2019-nCoV Spike/RBD Protein (RBD, mFc Tag) with an affinity constant of 0.562 nM as determined by Octet RED System.</p>
<b>Molecular Mass</b>	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag) consists of 457 amino acids and predicts a molecular mass of 51.5 kDa.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method

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<b>Purity</b>	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<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.