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

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

SPECIFICATION

Product Overview	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.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2μg/mL (100μL/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. 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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
Storage	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.
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.

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