

Active Recombinant COVID-19 Spike protein S1 subunit, His-tagged

Cat. No. Spike-191V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Spike protein S1 subunit was fused to His tag at C-terminus and expressed in human cells.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Val16-Arg685
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	<p>1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2/2019-nCoV Spike Protein (S1 Subunit, His tag), the EC50 of SARS-CoV-2/2019-nCoV Spike Protein (S1 Subunit, His tag) is 200-600 ng/mL.</p> <p>2. Loaded ACE2 Protein, Human, Recombinant (mFc Tag) on AMC Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike S1-His Recombinant Protein with an affinity constant of 47.7 nM as determined by Octet RED System.</p>
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (S1 Subunit, His Tag) consists of 681 amino acids and predicts a molecular mass of 76.5 kDa.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 90 % 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.