

Active Recombinant SARS-CoV-2 S protein, His-tagged

Cat. No. Spike-190V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 S protein(Arg319-Phe541), fused with C-terminal His tag, was expressed in HEK293.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	319-541 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.or Supplied as a 0.22 µm filtered solution in PBS, pH 7.4.
Bio-activity	1. Measured by its binding ability in a functional ELISA.Immobilized SARS-CoV-2 Spike RBD at 2 µg/mL (100 µL/well) can bind Human ACE-2 with a linear range of 0.001-2.96 ng/mL. 2. Immobilized human ACE2 on COOH Chip, can bind SARS-COV-2 Spike RBD Protein with an affinity constant of 35.3 nM as determined in a SPR assay (Nicoya OpenSPR). 3. Measured by its binding ability in a functional ELISA.Immobilized SARS-CoV-2 Spike RBD at 2 µg/mL (100 µL/well) can bind Human ACE-2 with a linear range of 0.001-1. 69 ng/mL.
Molecular Mass	25.94 kDa
Endotoxin	< 0.1 EU/µg of the protein by LAL method.
Purity	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

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Storage Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Reconstitution Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

GENE INFORMATION

Gene Name S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]

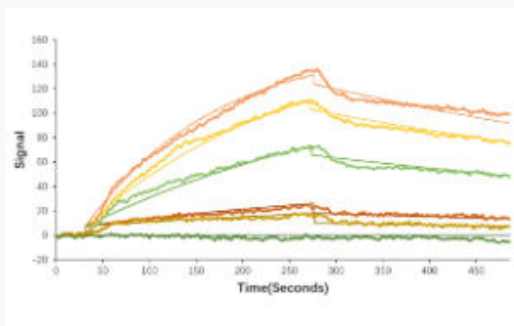
Official Symbol S

Synonyms S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein

Gene ID 43740568

Protein Refseq YP_009724390.1

Activity

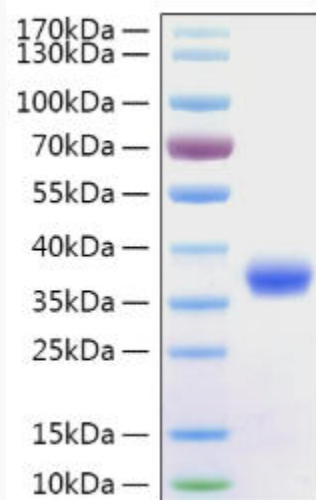


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SDS-PAGE



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