

Active Recombinant COVID-19 (2019-nCoV) Spike S1+S2 protein, His-Avi-tagged, Biotinylated

Cat. No. Spike-0430V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant COVID-19 (2019-nCoV) Spike S1+S2 protein(Met1-Pro1213)(YP_009724390.1), fused with His-Avi tag, was expressed in Insect Cells.
Species	Sars-CoV-2
Source	Insect Cells
ProteinLength	Met1-Pro1213
Form	Lyophilized from sterile 20mM Tris, 300mM NaCl, pH 8.0, 5% glycerolPlease contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized ACE2 Protein, Human, Recombinant (mFc Tag)(10108-H05H) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD-AVI & His Recombinant Protein, Biotinylated (40589-V27B-B), the EC50 of SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD-AVI & His Recombinant Protein, Biotinylated (40589-V27B-B) is 600-900 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2 ECD) consists of 1224 amino acids and predicts a molecular mass of 136.20 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.

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Purity	> 85 % as determined by SDS-PAGE.
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.
Conjugation	Biotin

GENE INFORMATION

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

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