Active Recombinant COVID-19 (2019-nCoV) Spike S1+S2 (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V) Protein, His-tagged

Cat. No. Spike-526C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 (2019-nCoV) Spike S1+S2 (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V) Protein(YP_009724390.1)(Met1-Pro1213(L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V)), fused with His tag, was expressed in Insect Cells.
Species	Sars-CoV-2
Source	Insect Cells
ProteinLength	Met1-Pro1213(L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V)
Form	Lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8.0.Please 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	Immobilized human ACE2 protein (mFc tag) at 2 μg/mL (100 μL/well) can bind SARS-CoV-2 Spike S1+S2 (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V) Protein (ECD, His Tag), the EC50 of SARS-CoV-2 Spike S1+S2 (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K,

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	N501Y, D614G, A701V) Protein (ECD, His Tag) is 150-800 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike S1+S2 consists of 1206 amino acids and predicts a molecular mass of 134 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 90 % 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.

GENE INFORMATION

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