

## 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

<b>Product Overview</b>	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.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	Met1-Pro1213(L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V)
<b>Form</b>	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.
<b>Bio-activity</b>	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,

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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