

### 32-190020: Recombinant SARS-CoV-2 Spike S1 Protein (His Tag)

Application :	Functional Assay
Gene ID :	43740568
Alternative Name	S1 protein; Spike glycoprotein Subunit1;S glycoprotein Subunit1;Spike protein S1;novel coronavirus s1 Protein

#### Description

**Source: HEK 293 cells.** The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensinconverting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

# Product Info Amount : 100 μg Purification : >90% by SDS-PAGE

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Content :	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage condition :	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.
Amino Acid :	The target protein is expressed with sequence (Val16-Arg685) of 2019-ncov Spike S1fused with a 6×His tag at the C-terminus.

### **Application Note**

**Bio-Activity:** Recombinant 2019-nCoV Spike S1 Protein is produced by HEK293 cells expression system. Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human ACE2 at 2 g/mL (100L/well ) can bind Recombinant nCoV-S1, The EC50 of nCoV-S1 is 0.25-0.45  $\mu$ g/mL. **Endotoxin** : < 1.0 EU/ $\mu$ g of the protein by LAL method.

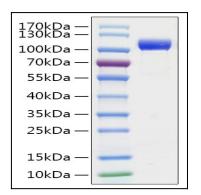


Figure-1: Recombinant COVID-19 Spike S1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.

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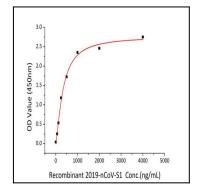


Figure-2: Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human ACE2 at 2  $\hat{1}_{4}$ g/mL (100 $\hat{1}_{4}$ l/well ) can bind Recombinant nCoV-S1, The EC50 of nCoV-S1 is 0.25-0.45  $\hat{1}_{4}$ g/mL.