

## 32-190019: Recombinant SARS-CoV-2 Spike S1 Protein with His tag and Avi

<b>Application :</b>	Functional Assay
<b>Gene ID :</b>	43740568
<b>Alternative Name :</b>	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, angiotensin-converting 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

<b>Amount :</b>	100 µg
<b>Purification :</b>	>95% by SDS-PAGE.
<b>Content :</b>	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.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	The target protein is expressed with sequence (Gln14-Arg683) of 2019-nCoV Spike S1 fused with a 6Å-His tag and Avi at the C-terminus.

### Application Note

**Bio-Activity:** Measured by its binding ability in a functional ELISA. Immobilized Recombinant 2019-nCoV Spike S1-His at 2µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 1.5-15 ng/mL. **Endotoxin :** < 1.0 EU/µg of the protein by LAL method.

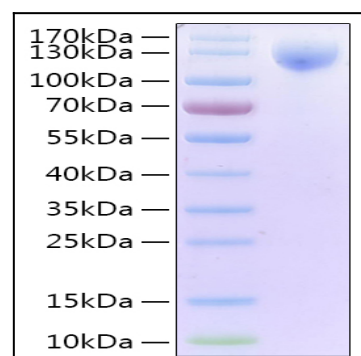


Figure-1: Recombinant 2019-nCoV Spike S1 protein on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

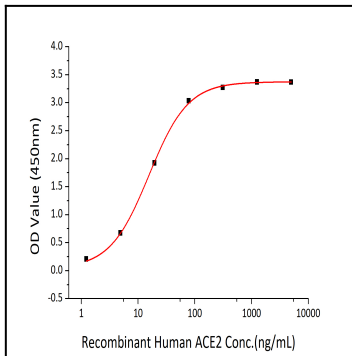


Figure-2: Immobilized Recombinant 2019-nCoV Spike S1-His at  $2 \times 10^4$ g/mL ( $100 \mu\text{g}/\text{well}$ ) can bind Recombinant Human ACE2 with a linear range of 1.5-15 ng/mL.