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

| | |
|---|---|
| **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, 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

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|---|---|
| **Amount :** | 100 µg |
| **Purification :** | >95% by SDS-PAGE. |
| **Content :** | Lyophilized from a 0.22 Î¼m 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 (Gln14-Arg683) of 2019-ncov Spike S1 fused with a 6Ã—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.

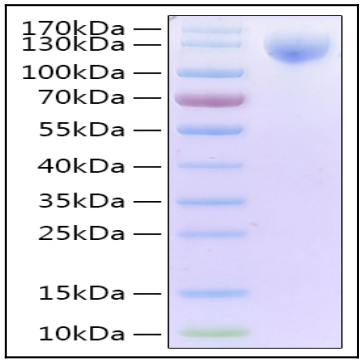


Figure-1: Recombinant 2019-nCoV Spike S1 protein on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***

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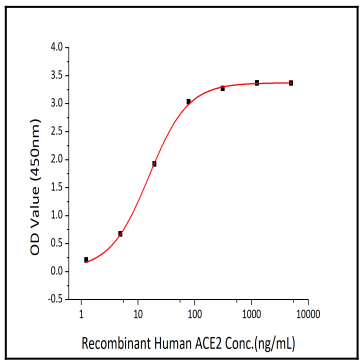


Figure-2: Immobilized Recombinant 2019-nCoV Spike S1-His at 2Î¼g/mL (100 Î¼L/well) can bind Recombinant Human ACE2 with a linear range of 1.5-15 ng/mL.

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