

## 32-190029: Recombinant 2019-nCoV Spike RBD Protein His tag

<b>Application :</b>	Functional Assay
<b>Gene ID :</b>	43740568
<b>Alternative Name :</b>	S1-RBD protein; NCP-CoV RBD Protein; novel coronavirus RBD Protein; 2019-nCoV RBD Protein; S glycoprotein Subunit1 RBD Protein

### Description

Source: HEK293 cells.

Endotoxin: < 0.1 EU/μg of the protein by LAL method.

Recombinant 2019-nCoV Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD (Accession #YP\_009724390.1) fused with a 6xHis tag at the C-terminus.

### Product Info

<b>Amount :</b>	100 μg
<b>Purification :</b>	> 95% by SDS-PAGE;> 95% by HPLC
<b>Content :</b>	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4 or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.
<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. This liquid product is stable at 4°C to 70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
<b>Amino Acid :</b>	The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD (Accession #YP_009724390.1) fused with a 6xHis tag at the C-terminus.

### Application Note

Measured by its binding ability in a functional ELISA. Immobilized Recombinant 2019-nCoV Spike RBD Protein at 2μg/mL (100 μL/well) can bind Recombinant Human ACE2 with a linear range of 0.12-9.06 ng/mL.

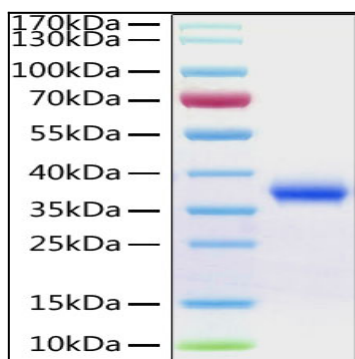


Fig 1 : Recombinant 2019-nCoV Spike RBD Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.

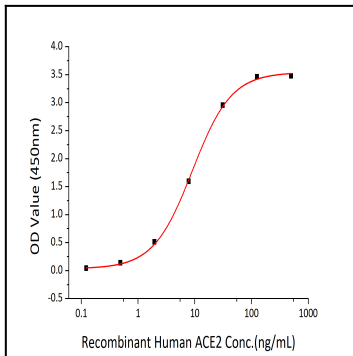


Fig 2 : Immobilized Recombinant 2019-nCoV Spike RBD Protein at  $2 \times 10^4$ g/mL ( $100 \mu$ L/well) can bind Recombinant Human ACE2 with a linear range of 0.12-9.06 ng/mL.

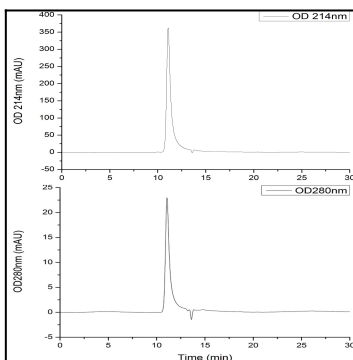


Fig 3 : The purity of 2019-nCoV Spike RBD Protein with His tag was greater than 95% as determined by SEC-HPLC