

## 32-190028: Recombinant SARS-CoV-2 Spike RBD Protein, mFc tag

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

### Description

Source: HEK293 cells.

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 mFc tag at the C-terminus.

### Product Info

**Amount :** 100 µg  
**Purification :** >95% by SDS-PAGE.  
**Content :** 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.  
**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. This product is stable at -70°C for up to 6 months from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.  
**Amino Acid :** The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD (Accession #YP\_009724390.1) fused with a mFc tag at the C-terminus.

### Application Note

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 Protein at 2µg/mL (100 µL/well) can bind Recombinant 2019-nCoV Spike RBD-mFc Protein. The EC50 of Recombinant 2019-nCoV Spike RBD-mFc Protein is 2.58 ng/mL.

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

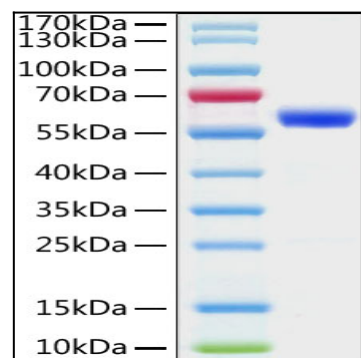


Fig 1 : Recombinant 2019-nCoV Spike RBD Protein with mFc tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 60 kDa.

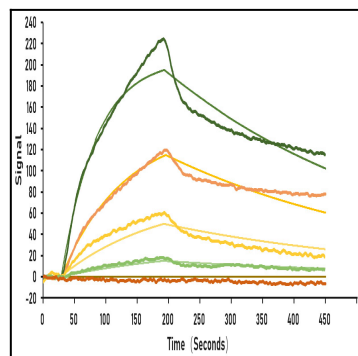


Fig 2 :Immobilized Human ACE2 on COOH Chip, can bind 2019-nCoV Spike S1 with an affinity constant of 6.58 nM as determined in a SPR assay (Nicoya OpenSPR).

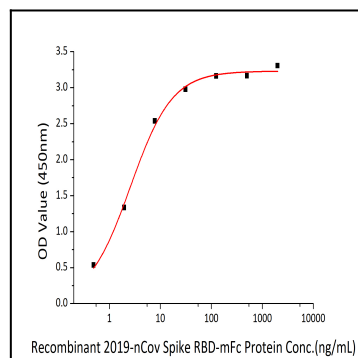


Fig 3 :Immobilized Recombinant Human ACE2 Protein at  $2\frac{1}{4}$ g/mL ( $100\frac{1}{4}$ L/well) can bind Recombinant 2019-nCoV Spike RBD-mFc Protein. The EC50 of Recombinant 2019-nCoV Spike RBD-mFc Protein is 2.58 ng/mL.