

# **Recombinant SARS-CoV-2 Spike RBD Protein**

Catalog No.: RP01282 Recombinant

### **Sequence Information**

**Species Gene ID Swiss Prot** SARS-CoV-2 43740568 P0DTC2

#### **Tags**

C-His&Avi

### **Synonyms**

Envelope;SARS-CoV-2 Spike RBD (N501Y);Spike;Spike ECD;Spike RBD;Spike S1;Spike S2;Spike S2 ECD;S1-RBD protein;NCP-CoV RBD Protein;novel coronavirus RBD Protein;2019-nCoV RBD Protein;S glycoprotein Subunit1 RBD Protein

### **Product Information**

#### Source

HEK293 cells

Purification
≥ 95 % as

determined by SDS-PAGE.≥ 95 % as determined by

HPLC.

### Calculated MW Observed MW

27.75 kDa 38 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

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.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Background**

### **Basic Information**

#### **Description**

Recombinant SARS-CoV-2 Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of sars-cov-2 Spike RBD (Accession  $\#YP\_009724390.1$ ) fused with a  $6\times His\_Avi$  tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2 Spike RBD at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind recombinant Human ACE2 with a linear range of 0.03-3.16 ng/mL.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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.

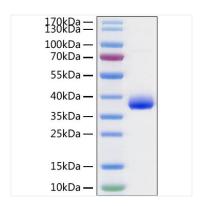
### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

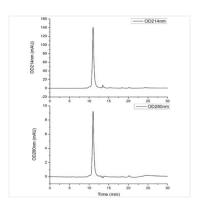
## Contact

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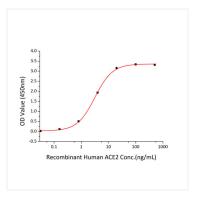
### **Validation Data**



Recombinant SARS-CoV-2 Spike RBD Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of SARS-COV-2 Spike RBD Protein with Avi and His tag (Cat.RP01282LQ) was greater than 95% as determined by SEC-HPLC.



Immobilized SARS-CoV-2 Spike RBD at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind recombinant Human ACE2 with a linear range of 0.03-3.16 ng/mL.