

# Recombinant SARS-CoV Spike RBD Protein

Catalog No.: RP01304 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV	1489668	P59594

### Tags

C-mFc

### Synonyms

Spike;Spike RBD;Spike S1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
50.58 kDa	60-70 kDa

### Endotoxin

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

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

## Basic Information

### Description

Recombinant SARS-CoV Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg306-Phe527) of sars-cov Spike RBD (Accession #NP\_828851.1) fused with a P59594.

### Bio-Activity

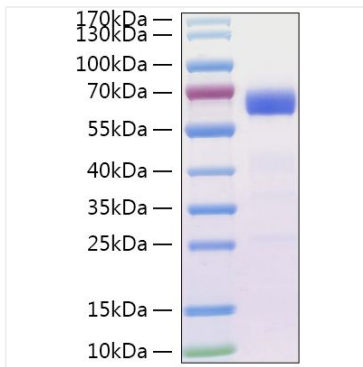
Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV Spike RBD at 2μg/mL (100μL/well) can bind Human ACE2 (Catalog: RP01266) with a linear range of 0.1-11.56 ng/mL.

### Storage

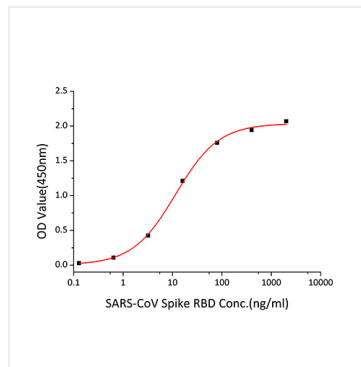
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant SARS-CoV Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.



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