

# Recombinant SARS-COV-2 Spike RBD Protein

Catalog No.: RP02325 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-COV-2		QHD43416.1

### Tags

C-hFc

### Synonyms

S protein RBD;Spike glycoprotein  
Receptor-binding domain;S glycoprotein  
RBD;Spike protein RBD

## Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

### Endotoxin

< 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 tube 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

## Basic Information

### Description

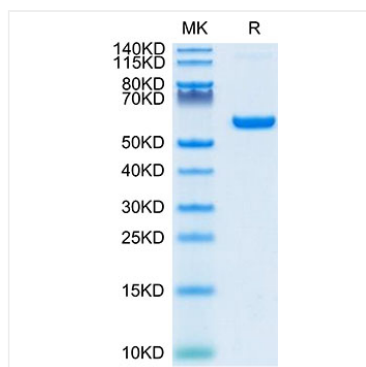
Recombinant SARS-COV-2 Spike RBD Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Arg319-Phe541) of SARS-COV-2 Spike RBD fused with hFc tag at the C-terminal.

### Bio-Activity

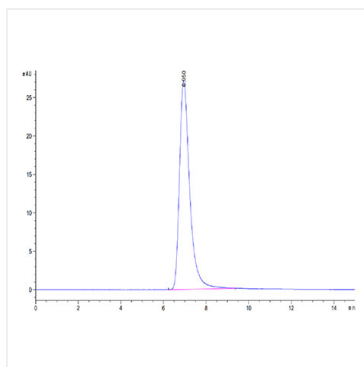
### Storage

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.

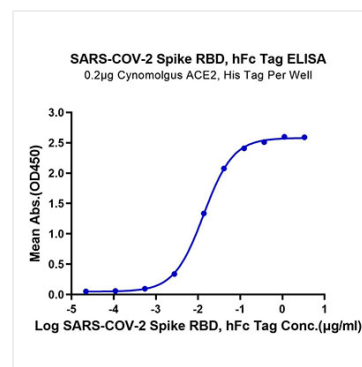
## Validation Data



SARS-COV-2 Spike RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of SARS-COV-2 Spike RBD is greater than 95% as determined by SEC-HPLC.



Immobilized Cynomolgus ACE2, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for SARS-COV-2 Spike RBD, hFc Tag with the EC<sub>50</sub> of 13.5ng/ml determined by ELISA.