

# Recombinant SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein

Catalog No.: RP02321 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-COV-2	43740568	QHD43416.1

### Tags

C-His

### 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

Calculated MW	Observed MW
26.2 kDa	30-40 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.

### 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 (N501Y, K417N,E484K ) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Arg319-Phe541(N501Y,K417N,E484K)) of SARS-COV-2 Spike RBD (N501Y, K417N,E484K ) fused with His tag at the C-terminal.

#### Bio-Activity

Immobilized SARS-CoV-2 Spike RBD (N501Y,K417N,E484K) at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC<sub>50</sub> of 0.48 μg/mL determined by ELISA.

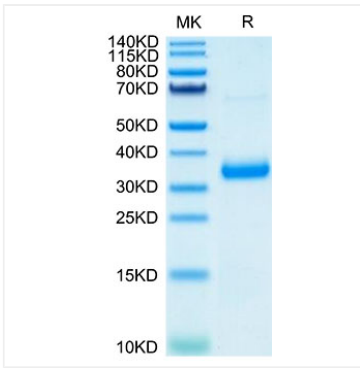
#### Storage

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

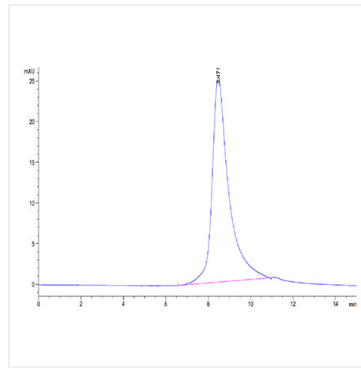
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

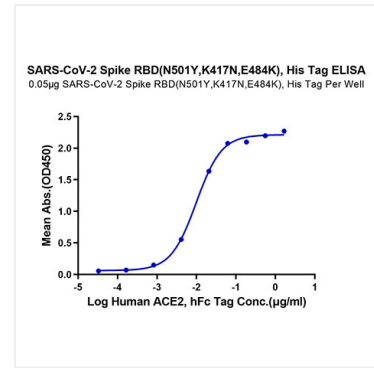
## Validation Data



SARS-COV-2 Spike RBD (N501Y,K417N,E484K) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of SARS-COV-2 Spike RBD (N501Y,K417N,E484K) is greater than 95% as determined by SEC-HPLC.



Immobilized SARS-COV-2 Spike RBD (N501Y,K417N,E484K), His Tag at 0.5µg/ml (100ul/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC<sub>50</sub> of 9.9ng/ml determined by ELISA.