

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

Catalog No.: RP02321 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
SARS-COV-2		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

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.

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

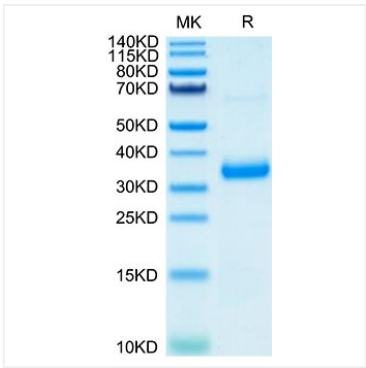
Immobilized SARS-CoV-2 Spike RBD (N501Y,K417N,E484K) at 0.5 μg/mL (100
μL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC₅₀
of 0.48 μg/mL determined by ELISA.

Storage

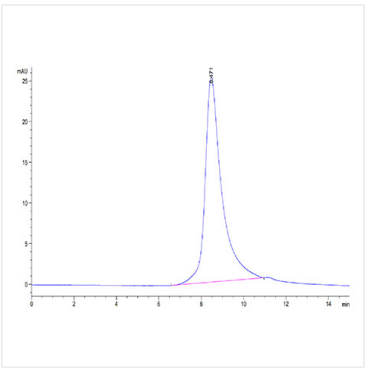
Store the lyophilized protein at -20°C to -80°C for long term.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C
for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

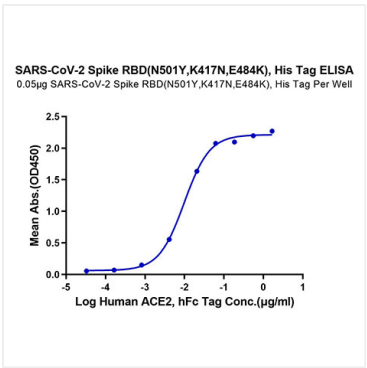
Validation Data



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 EC₅₀ of 9.9ng/ml determined by ELISA.