

RP02321

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

Catalog No.: RP02321

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	43740568	QHD43416.1

Tags

C-His

Synonyms

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

Product Information

Source

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.

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by 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

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

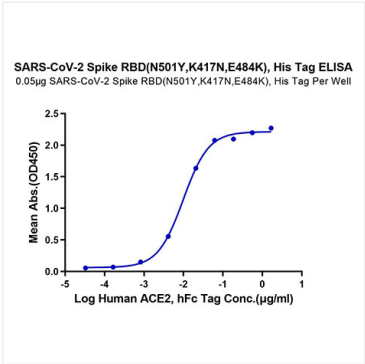
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Avoid vortex or vigorously pipetting
the protein. For long term storage, it is
recommended to add a carrier protein
or stabilizer (e.g. 0.1% BSA, 5% HSA,
10% FBS or 5% Trehalose), and aliquot
the reconstituted protein solution to
minimize free-thaw cycles.

Contact

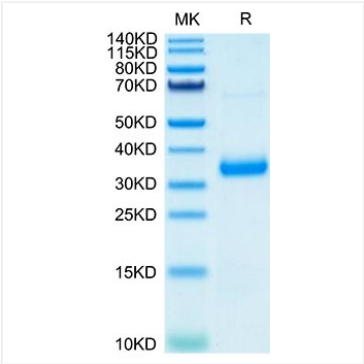


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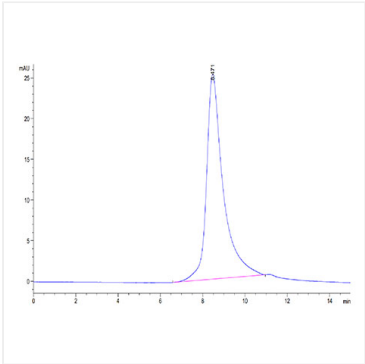
Validation Data



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.



Recombinant SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein was determined by Tris-Bis PAGE under reducing conditions.



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