

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

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 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC₅₀ of 0.48 μ g/mL determined by ELISA.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

Operational Notes

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

Product Information

Source

HEK293 cells
 ≥ 95 % as
 determined by Tris-
 Bis PAGE; ≥ 95 % as
 determined by
 HPLC.

Calculated MW

26.2 kDa

Observed MW

30-40 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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.

Basic Information

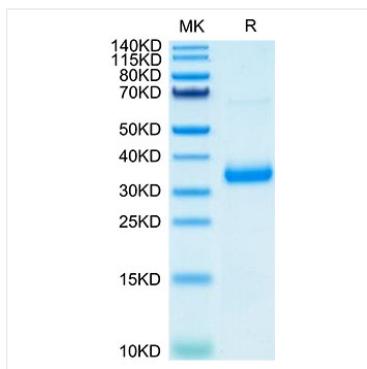
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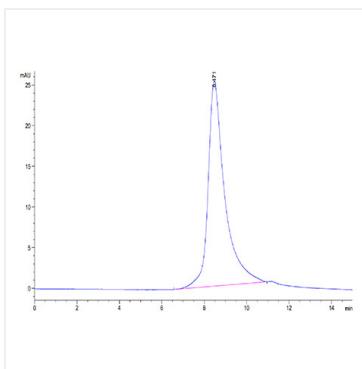
Contact

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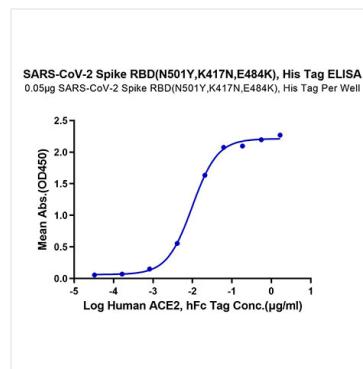
Validation Data



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.



Immobilized SARS-CoV-2 Spike RBD (N501Y,K417N,E484K) , His Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC₅₀ of 9.9ng/ml determined by ELISA.