

Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01271

Sequence Information

Species SARS-CoV-2
Gene ID 43740568

Swiss Prot
Tags C-hFc

Synonyms

Envelope, SARS-CoV-2 Spike RBD (N501Y), Spike, Spike ECD, Spike RBD, Spike S1, Spike S2, Spike S2 ECD, S1-RBD protein, NCP-CoV RBD Protein, novel coronavirus RBD Protein, 2019-nCoV RBD Protein, S glycoprotein Subunit 1 RBD Protein

Product Information

Source HEK293 cells
Purification ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW / Observed MW

50.67 kDa 60 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4. Contact us for customized product form or formulation.

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

Background

Basic Information

Description

Recombinant SARS-CoV-2(2019-nCoV) Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of SARS-COV-2(2019-nCoV) Spike RBD (Accession #YP_009724390.1) fused with a hFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 Protein at 2 μg/mL (100 μL/well) can bind Recombinant SARS-COV-2 Spike RBD-mFc Protein, the EC₅₀ of Recombinant SARS-COV-2 Spike RBD-mFc Protein is 2.58 ng/mL.

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.

Storage

Store at -20°C

Operational Notes

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

Contact

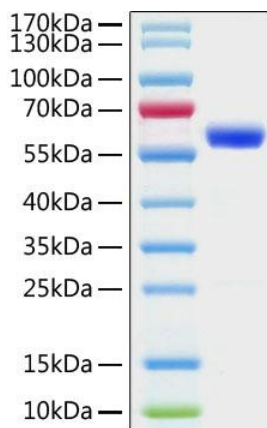
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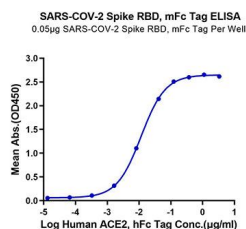
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reconstituted protein solution to
minimize free-thaw cycles.

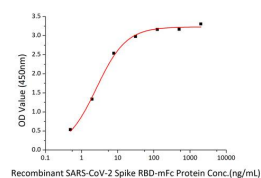
Validation Data



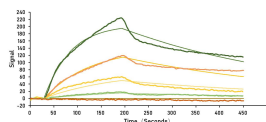
Recombinant SARS-CoV-2 Spike RBD Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



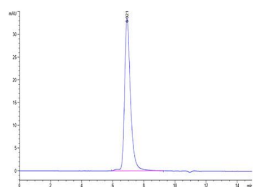
Immobilized SARS-COV-2 Spike RBD at 0.5µg/ml (100µl/Well). Dose response curve for Human ACE2, hFc Tag with the EC₅₀ of 11.6ng/ml determined by ELISA.



Immobilized Recombinant Human ACE2 Protein at 2µg/mL (100 µL/well) can bind Recombinant SARS-COV-2 Spike RBD-mFc Protein, the EC₅₀ of Recombinant SARS-COV-2 Spike RBD-mFc Protein is 2.58 ng/mL.



Immobilized Human ACE2 on COOH Chip, can bind SARS-COV-2 Spike S1 with an affinity constant of 6.58 nM as determined in a SPR assay (Nicoya OpenSPR).



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