

Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01271 Recombinant

Sequence Information

Species Gene ID Swiss Prot

SARS-CoV-2 43740568

Tags

C-mFc

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 Subunit1 RBD Protein

Product Information

Source

Purification

HEK293 cells

> 95% by SDS-PAGE.

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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 votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (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(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 mFc tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 Protein at 2 μ g/mL (100 μ L/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.

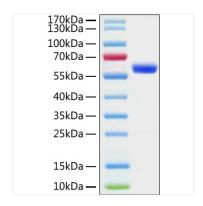
Storage

Store the lyophilized protein at -20°C to -80°C for long term.

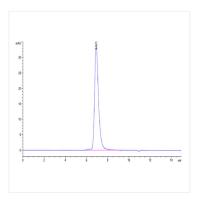
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

or This product is stable at \leq -70°C for up to 6 months from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

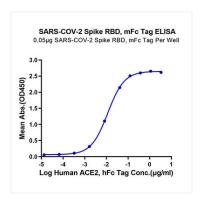
Avoid repeated freeze/thaw cycles.



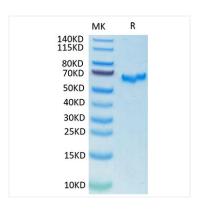
Recombinant SARS-CoV-2 Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60 kDa.



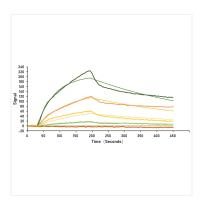
The purity of SARS-COV-2 Spike RBD is greater than 95% as determined by SEC-HPLC.



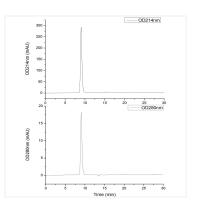
Immobilized SARS-COV-2 Spike RBD at 0.5 μ g/ml (100 μ l/Well). Dose response curve for Human ACE2, hFc Tag with the EC $_{50}$ of 11.6ng/ml determined by ELISA.



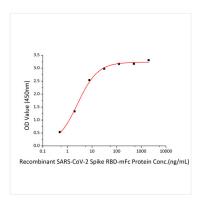
SARS-COV-2 Spike RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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 Protein with mFc tag (Cat.RP01271) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human ACE2 Protein at 2 μ g/mL (100 μ L/well) can bind Recombinant SARS-COV-2 Spike RBD-mFc Protein[]the EC $_{50}$ of Recombinant SARS-COV-2 Spike RBD-mFc Protein is 2.58 ng/mL.