

RP01278

Leader in Biomolecular Solutions for Life Science



Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01278

Recombinant

1 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**

HEK293 cells43740568

Tags

C-His

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

Centrifuge the vial 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 SDS-PAGE; ≥ 95 % as determined by HPLC.

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

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 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2 Spike RBD at 2 μg/mL (100 μL/well) can bind recombinant Human ACE2 with a linear range of 0.15-3.63 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.

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.

7.4. Contact us for customized product form or formulation.

Reconstitution

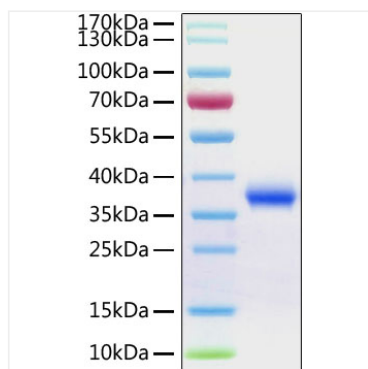
Centrifuge the vial before opening.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

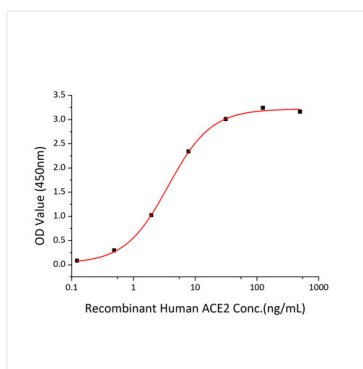


www.abclonal.com

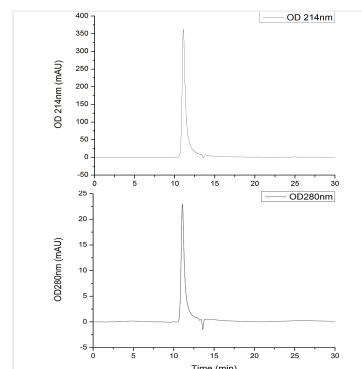
Validation Data



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 2 μ g/mL (100 μ L/well) can bind recombinant Human ACE2 with a linear range of 0.15-3.63 ng/mL.



The purity of SARS-COV-2 Spike RBD Protein with His tag (Cat. RP01278) was greater than 95% as determined by SEC-HPLC.