

Recombinant SARS-CoV-2 Spike S1 Protein

Catalog No.: RP01279 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740568	P0DTC2

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 Subunit1 RBD Protein

Product Information

Source	Purification
HEK293 cells	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
100.97 kDa	130-160 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 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 freeze-thaw cycles.

Contact

Background

Basic Information

Description

Recombinant SARS-CoV-2 Spike S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val16-Arg685) of sars-cov-2 Spike S1 (Accession #YP_009724390.1) fused with a Fc tag at the C-terminus.

Bio-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 S1 Protein. The EC₅₀ of Recombinant SARS-CoV-2 Spike S1 Protein is 47.35 ng/mL.

Shipping

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

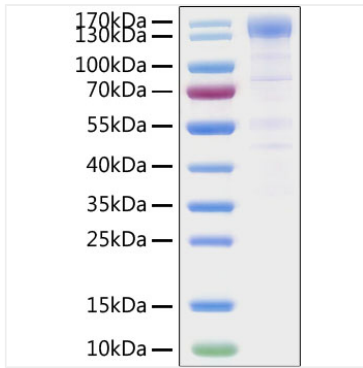
Storage

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.

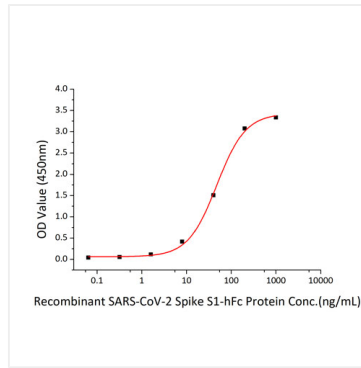
Operational Notes

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

Validation Data



Recombinant SARS-CoV-2 Spike S1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human ACE2-His Protein at $2\mu\text{g/mL}$ ($100\mu\text{L/well}$) can bind Recombinant SARS-CoV-2 Spike S1-hFc Protein. The EC_{50} of Recombinant SARS-CoV-2 Spike S1-hFc Protein is 47.35 ng/mL .