

Recombinant SARS-CoV-2 Spike S1 Protein

Catalog No.: RP01280

Sequence Information

Species SARS-CoV-2
Gene ID 43740568

Swiss Prot P0DTC2
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 HEK293 cells
Purification ≥ 85 % as determined by SDS-PAGE.

Calculated MW 100.58 kDa
Observed MW 130-170 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 free-thaw cycles.

Contact

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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 mFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2-His Protein at 2 μg/mL (100 μL/well) can bind Recombinant SARS-CoV-2 Spike S1-mFc Protein, the EC₅₀ of Recombinant SARS-CoV-2 Spike S1-mFc Protein is 79.21 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.

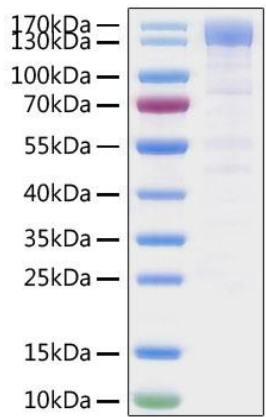
Storage

Store at -20°C

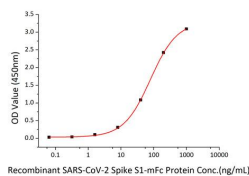
Operational Notes

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

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 μ g/mL (100 μ L/well) can bind Recombinant SARS-CoV-2 Spike S1-mFc Protein, the EC₅₀ of Recombinant SARS-CoV-2 Spike S1-mFc Protein is 79.21 ng/mL.