

Recombinant SARS-COV-2 Spike S1 Protein

Catalog No.: RP02333 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
SARS-COV-2		QHD43416.1

Tags

C-hFc&Avi

Synonyms

S1 protein;Spike glycoprotein Subunit1;S glycoprotein Subunit1;Spike protein S1

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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 reconstituted protein solution to minimize free-thaw cycles.

Background

Basic Information

Description

Recombinant SARS-COV-2 Spike S1 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln14-Arg683) of SARS-COV-2 Spike S1 fused with hFc tag and Avi tag at the C-terminal.

Bio-Activity

Immobilized Human ACE2, His Tag at 0.5 μg/mL (100 μL/Well).Dose response curve for SARS-COV-2 Spike S1,hFc Tag with the EC₅₀ of 0.1 μg/mL determined by ELISA.

Storage

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

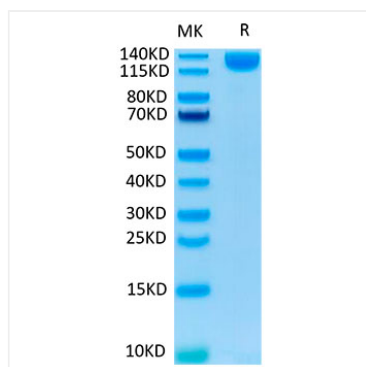
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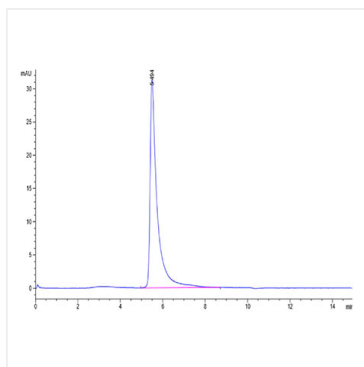
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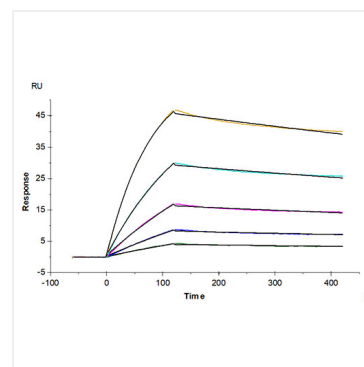
Validation Data



SARS-COV-2 Spike S1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of SARS-COV-2 Spike S1 is greater than 95% as determined by SEC-HPLC.



SARS-COV-2 Spike S1, hFc Tag captured on CM5 Chip via Protein A can bind Human ACE2, His Tag with an affinity constant of 3.80 nM as determined in SPR assay (Biacore T200).