Recombinant SARS-COV-2 Spike S1 Protein

Catalog No.: RP02333

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Sequence Information

Species
SARS-COV-2

Gene ID
43740568

Swiss Prot
QHD43416.1

Tags
C-hFc&Avi

Synonyms
S1 protein,Spike glycoprotein Subunit1,S glycoprotein Subunit1, Spike protein S1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW
102.6 kDa

Observed MW
130-140 kDa

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 stablizer (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.

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 EC_{50} of 0.1 μg/mL determined by ELISA.

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℃

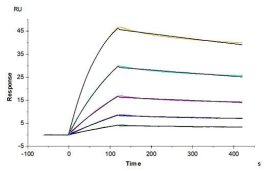
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

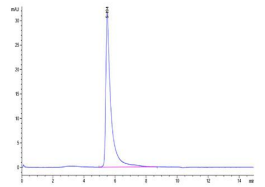
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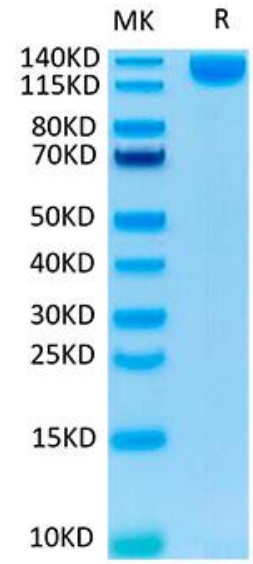
Validation Data



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).



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



Recombinant SARS-COV-2 Spike S1 Protein was determined by Tris-Bis PAGE under reducing conditions.