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Recombinant SARS-COV-2 Spike S1+S2 ECD(S-ECD) Protein

Catalog No.: RP02334 Recombinant

Sequence Information

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

Tags
C-hFc

Synonyms
S protein;Spike glycoprotein;S glycoprotein;COVID-19

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 votex 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.

Contact

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Background

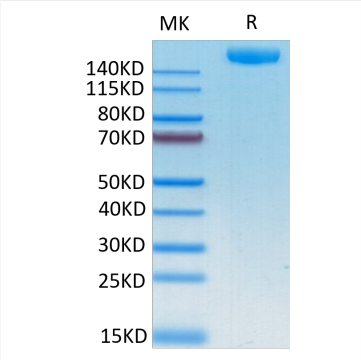
Basic Information

Description
Recombinant SARS-COV-2 Spike S1+S2 ECD(S-ECD) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Val16-Glu1188) of SARS-COV-2 Spike S fused with hFc tag at the C-terminal.

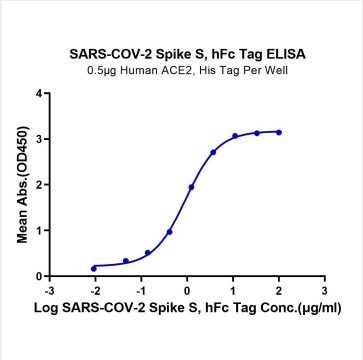
Bio-Activity
Immobilized Human ACE2,His Tag at 5 μg/mL (100 μL/Well). Dose response curve for SARS-COV-2 Spike S,hFc Tag with the EC_{50} of 0.9 μg/mL determined by ELISA.

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.

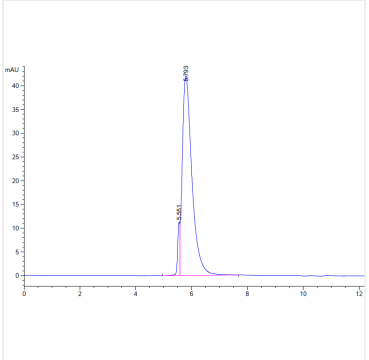
Validation Data



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



Immobilized Human ACE2,His Tag at 5μg/ml (100μl/Well). Dose response curve for SARS-COV-2 Spike S,hFc Tag with the EC_{50} of 0.9μg/ml determined by ELISA.



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