

# Recombinant SARS-COV-2 Spike S1+S2 ECD(S-ECD)(D614G) Trimer Protein

Catalog No.: RP02327 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-COV-2	43740568	QHD43416.1

### Tags

C-His&Avi

### Synonyms

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

## Product Information

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

Calculated MW	Observed MW
136.7 kDa	175-230 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 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 S Trimer (D614G) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Val16-Glu1188(D614G)) of SARS-COV-2 Spike S Trimer (D614G) fused with a His tag and Avi at the C-terminal.

#### Bio-Activity

Immobilized SARS-COV-2 Spike S (D614G) Trimer, His Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Human ACE2,Fc Tag with the EC<sub>50</sub> of 0.1 μg/mL determined by ELISA.

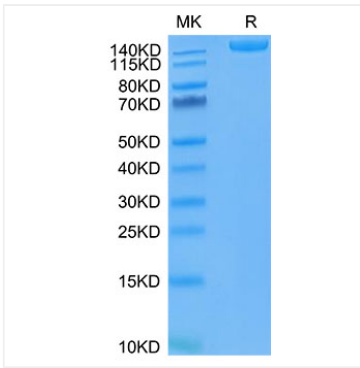
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

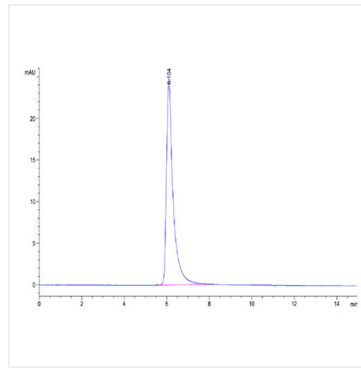
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

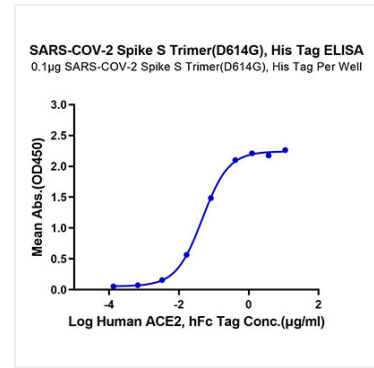
## Validation Data



SARS-COV-2 Spike S Trimer (D614G) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of SARS-COV-2 Spike S Trimer (D614G) is greater than 95% as determined by SEC-HPLC.



Immobilized SARS-COV-2 Spike S Trimer (D614G) , His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC<sub>50</sub> of 46.5ng/ml determined by ELISA.