

# Recombinant SARS-CoV-2 Spike S1(D614G) Protein

Catalog No.: RP01287 **Recombinant** **1 Publications**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740568	P0DTC2

### Tags

C-His

### 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	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
75.79 kDa	110-130 kDa

### Endotoxin

< 1.0 EU/μg of the protein by LAL method.

### Formulation

Supplied as a 0.22 μm filtered solution in PBS, pH 7.4 or Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### 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(D614G) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val16-Arg685(Asp614Gly)) of sars-cov-2 Spike S1(D614G) (Accession #QHD43416.1) fused with a 6×His tag at the C-terminus.

#### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant SARS-CoV-2 Spike S1 at 2 μg/mL (100 μL/well) can bind recombinant Human ACE2 with a linear range of 0.03-6.26 ng/mL.

#### 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.

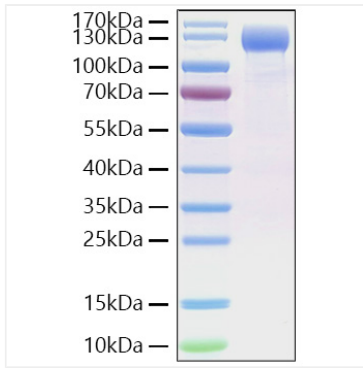


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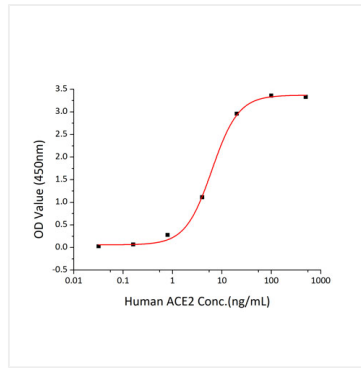
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## Validation Data

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Recombinant SARS-CoV-2 Spike S1(D614G) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.



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