

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

Catalog No.: RP01260MT **Recombinant** **2 Publications**

## Sequence Information

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

### Tags

C-His&Avi

### 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

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥95 % as determined by HPLC.

**Calculated MW**    **Observed MW**  
132.9kDa

### Endotoxin

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

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4 or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4. Contact us for customized product form or formulation.

### 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(2019-nCoV) S1+S2 ECD[S-ECD] Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence Val16-Glu1188 of SARS-COV-2(2019-nCoV) S1+S2 ECD[S-ECD] (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+S2 ECD at 2 μg/mL (100 μL/well) can bind Recombinant Human ACE2 with a linear range of 0.15-3.03 ng/mL.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### 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.

#### Operational Notes

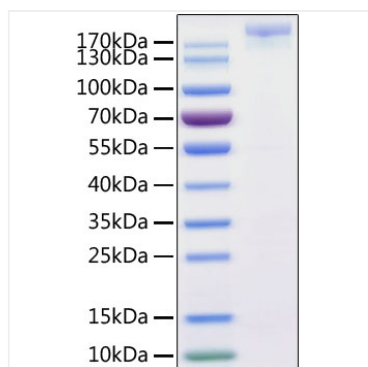
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

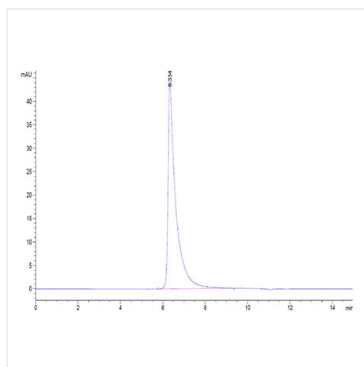
☎		400-999-6126
✉		<a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a>
🌐		<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

\* 本资料仅供参考，不作为任何投资建议。

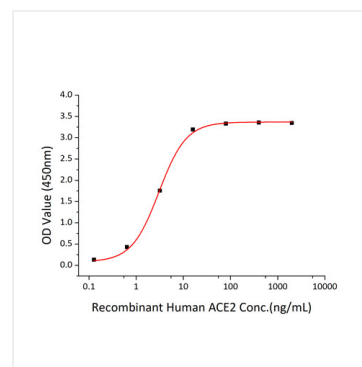
## Validation Data



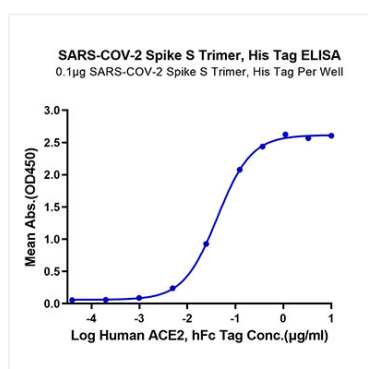
Recombinant SARS-CoV-2 Spike S1+S2 ECD(S-ECD) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



Immobilized Recombinant SARS-CoV-2 Spike S1+S2 ECD at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human ACE2 with a linear range of 0.15-3.03 ng/mL.



Immobilized SARS-CoV-2 Spike S Trimer, His Tag at 1 $\mu$ g/ml (100 $\mu$ L/Well). Dose response curve for Human ACE2, hFc Tag with the EC<sub>50</sub> of 42.2ng/ml determined by ELISA.