

# Recombinant SARS-CoV-2 Spike RBD(B.1.1.529 sublineage BA.2/Omicron) Protein

Catalog No.: RP02191 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740568	QHO60594.1

### Tags

C-His

### Synonyms

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 % as determined by SEC-HPLC

Calculated MW	Observed MW
26.71 kDa	36.55 kDa

### Endotoxin

<1EU/μg

### Formulation

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 RBD(B.1.1.529 sublineage BA.2/Omicron) Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Arg319-Phe541(G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)) of sars-cov-2 Spike RBD(B.1.1.529 sublineage BA.2/Omicron) (Accession #YP\_009724390.1) fused with 6×His tag at the C-terminus.

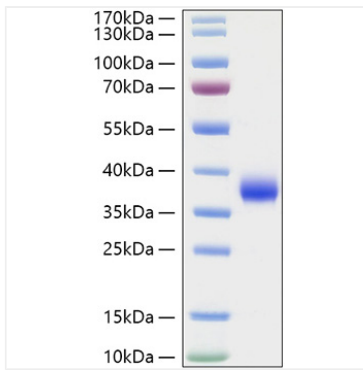
#### Bio-Activity

#### Storage

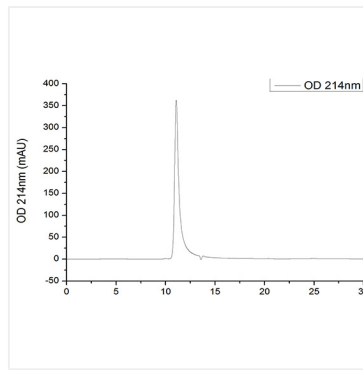
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant SARS-CoV-2 Spike RBD(B.1.1.529 sublineage BA.2/Omicron) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-40kDa.



The purity of SARS-CoV-2 Spike RBD(B.1.1.529 sublineage BA.2/Omicron) Protein (Cat.RP02191) was greater than 95% as determined by SEC-HPLC.