

Recombinant SARS-COV-2 Spike S1 Protein

Catalog No.: RP02333 **Recombinant**

Sequence Information

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

Tags

C-hFc&Avi

Synonyms

S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1

Background

Basic Information

Description

Recombinant SARS-COV-2 Spike S1 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln14-Arg683) of SARS-COV-2 Spike S1 fused with hFc tag and Avi tag at the C-terminal.

Bio-Activity

Immobilized Human ACE2, His Tag at 0.5 µg/mL (100 µL/Well). Dose response curve for SARS-COV-2 Spike S1, hFc Tag with the EC₅₀ of 0.1 µg/mL determined by ELISA.

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.

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW

102.6 kDa

Observed MW

130-140 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.

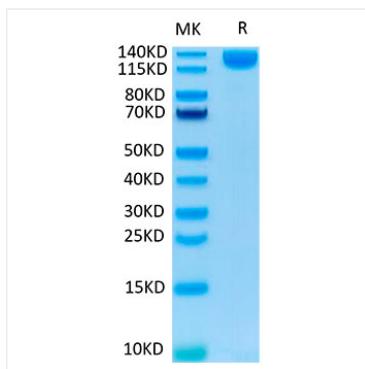
Reconstitution

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 freeze-thaw cycles.

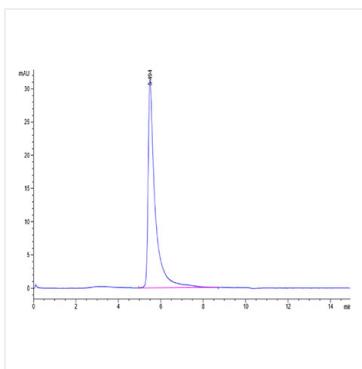
Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

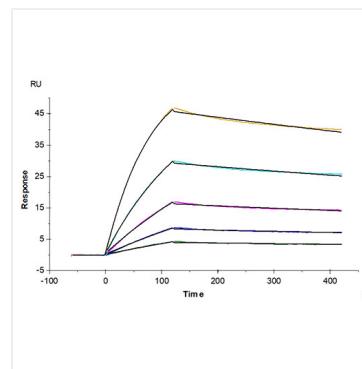
Validation Data



Recombinant SARS-CoV-2 Spike S1 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of SARS-CoV-2 Spike S1 is greater than 95% as determined by SEC-HPLC.



SARS-CoV-2 Spike S1, hFc Tag captured on CM5 Chip via Protein A can bind Human ACE2, His Tag with an affinity constant of 3.80 nM as determined in SPR assay (Biacore T200).