

Biotinylated Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) Protein

Catalog No.: RP02109 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740568	

Tags

C-His&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	>95% by SDS-PAGE; > 95% by HPLC

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of 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 freeze-thaw cycles.

Contact

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Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Basic Information

Description

Biotinylated Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln14-Arg683) of SARS-COV-2 Spike S1(B.1.1.529/Omicron) (Accession #QHO60594.1) fused with His tag and Avi tag at the C-terminal.

Bio-Activity

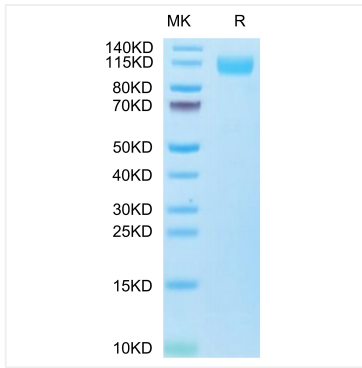
Storage

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

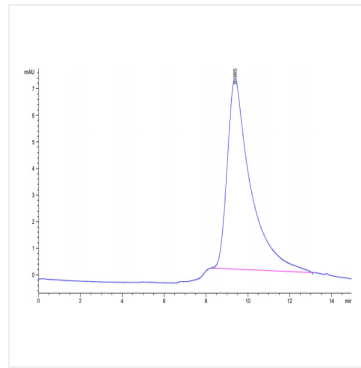
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-120 kDa.



The purity of Biotinylated SARS-COV-2 Spike S1 (B.1.1.529/Omicron) is greater than 95% as determined by SEC-HPLC.