

Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) www.abclonal.com Protein

Catalog No.: RP02108 Recombinant

Sequence Information

Species Gene ID Swiss Prot SARS-CoV-2 43740568 OHO60594.1

Tags

C-His

Synonyms

S1 protein; Spike glycoprotein Subunit1;S glycoprotein Subunit1;Spike protein S1;novel coronavirus s1 Protein

Product Information

Source Purification HEK293 cells ≥ 95 % as

≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

76.38 kDa 130-145 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.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 stablizer (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

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 thisinteraction. The S protein plays key parts in the induction of neutralizing-antibody and T-cellresponses, as well as protective immunity.

Basic Information

Description

Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) Protein is produced by Expi293 cells expression system. The target protein is expressed with sequence (Gln14-Arg683(A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H)) of SARS-COV-2 Spike S1(B.1.1.529/Omicron) (Accession #QHO60594.1) fused with His tag at the Cterminus.

Bio-Activity

Immobilized Human ACE2, hFc Tag at $2\mu g/ml$ (100 $\mu l/well)$ on the plate. Dose response curve for SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag with the EC $_{50}$ of $0.8\mu g/ml$ 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.

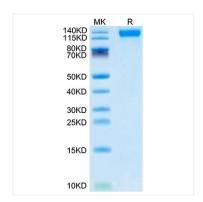
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

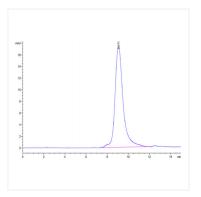
Operational Notes

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

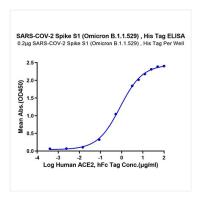
Validation Data



Recombinant SARS-CoV-2 Spike S1(B.1.1.529/Omicron) Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Human ACE2, hFc Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag with the EC₅₀ of 0.8 μ g/ml determined by ELISA.