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

Catalog No.: RP02108

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Sequence Information

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

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 C-terminus.

Activity

Immobilized Human ACE2, hFc Tag at 2μg/ml (100μl/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 0.8μg/ml determined by ELISA.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

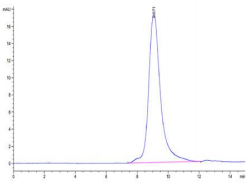
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

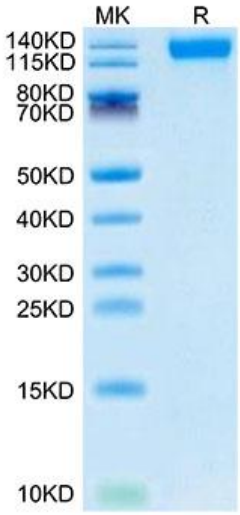
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Please visit http://abclonal.com for a complete listing of recommended products.

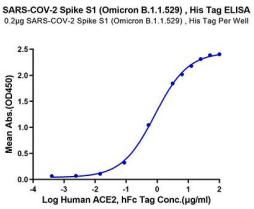
Validation Data



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



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



Immobilized Human ACE2, hFc Tag at 2μg/ml (100μl/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 0.8μg/ml determined by ELISA.