Recombinant SARS-CoV-2 Spike S1+S2 ECD(S-ECD)(B.1.1.529/Omicron) Trimer Protein

Catalog No.: RP02111

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Sequence Information

Species
SARS-CoV-2

Gene ID
43740568

Swiss Prot
QHO60594.1

Tags
C-His

Synonyms
S protein,Spike glycoprotein,S glycoprotein,COVID-19

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
136.70 kDa

Observed MW
140-180 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 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
Recombinant SARS-CoV-2 Spike S1+S2 ECD(S-ECD)(B.1.1.529/Omicron) Trimer Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Val16-Glu1213) of SARS-COV-2 Spike S(B.1.1.529/Omicron)(Accession #QHO60594.1) fused with His tag at the C-terminal.

Activity

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℃

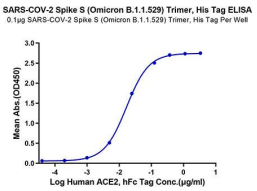
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

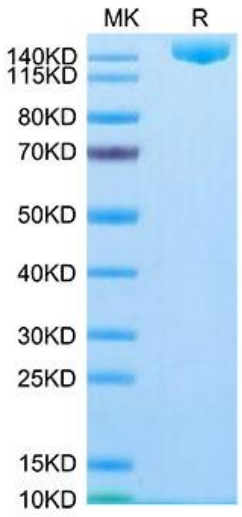
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Immobilized SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC_{50} of 16.7ng/ml determined by ELISA.



Recombinant SARS-CoV-2 Spike S1+S2 ECD(S-ECD)(B.1.1.529/Omicron) Trimer Protein was determined by Tris-Bis PAGE under reducing conditions.