

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

Catalog No.: RP02111 Recombinant

Sequence Information

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

Tags

C-His

Synonyms

S protein;Spike glycoprotein;S glycoprotein;COVID-19

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

136.70 kDa 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.

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

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.

Bio-Activity

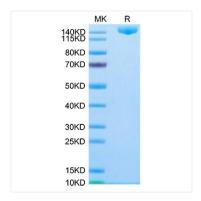
Storage

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

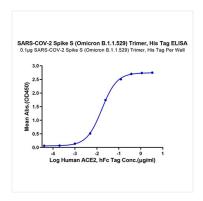
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

. Avoid repeated freeze/thaw cycles.

Validation Data



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.



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