

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	QHO60594.1

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	>95% 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-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.

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.

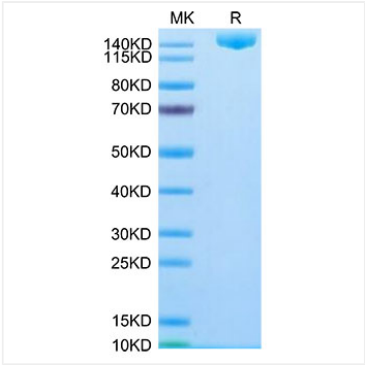
Contact

☎ | 400-999-6126

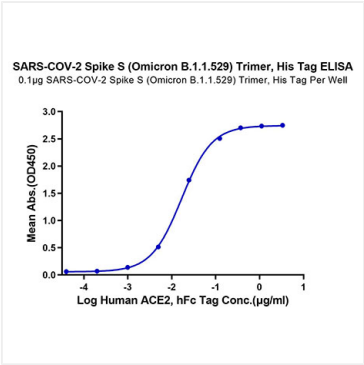
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Validation Data



SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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 EC₅₀ of 16.7ng/ml determined by ELISA.