

Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer Protein

Cat. No. COV-VM4FOB

Description

Recombinant Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.

Source

It contains Val16-Pro1213(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, N764K, D796Y, N856K, Q954H, N969K, L981F). Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively.

Accession

QHO60594.1

Molecular Weight

The protein has a predicted MW of 136.70 kDa. Due to glycosylation, the protein migrates to 140-180 kDa based on Bis-Tris PAGE result.

Endotoxin

Less than 1EU per µg by the LAL method.

Purity

> 95% as determined by Bis-Tris PAGE

Formulation and Storage

Formulation

Supplied as 0.22µm filtered solution in PBS (pH 7.4).

Storage

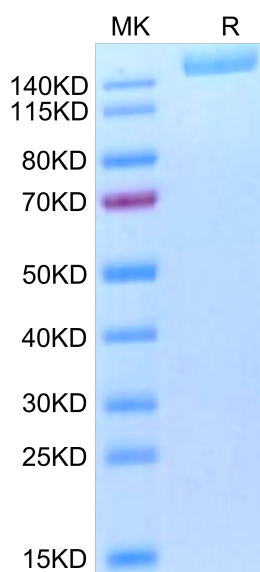
Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



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

ELISA Data

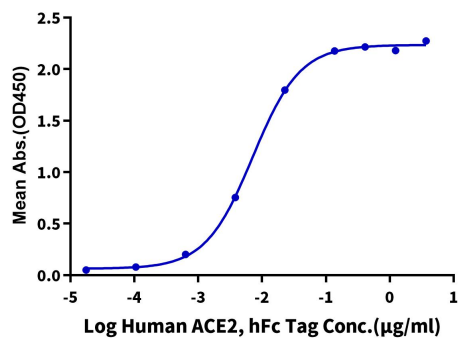
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Assay Data

Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag ELISA

0.2µg Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag Per Well



Immobilized Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag at 2µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 7.2ng/ml determined by ELISA.