

Biotinylated SARS-COV-2 Spike S Trimer Protein

Cat. No. COV-VM4SSB



Description

| | |
|-------------------------|---|
| Source | Recombinant Biotinylated SARS-COV-2 Spike S Trimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Val16-Glu1188. |
| Accession | QHD43416.1 |
| Molecular Weight | The protein has a predicted MW of 136.6 kDa. Due to glycosylation, the protein migrates to 140-170 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE |

Formulation and Storage

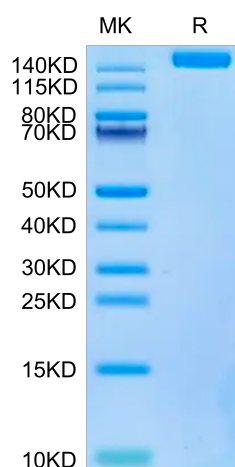
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. 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.

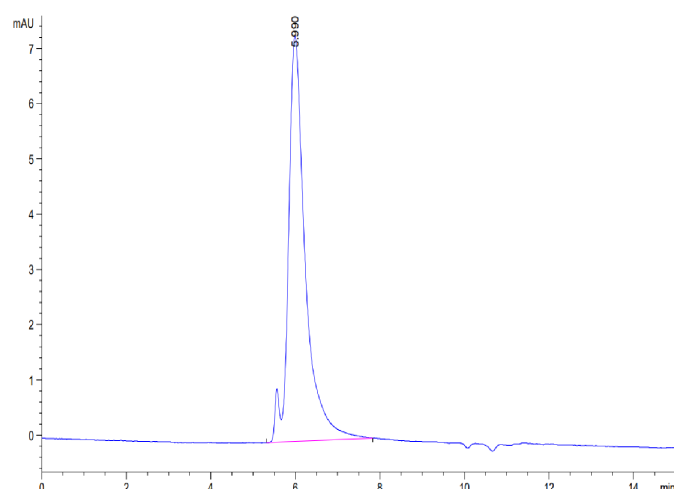
Assay Data

Tris-Bis PAGE



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

SEC-HPLC

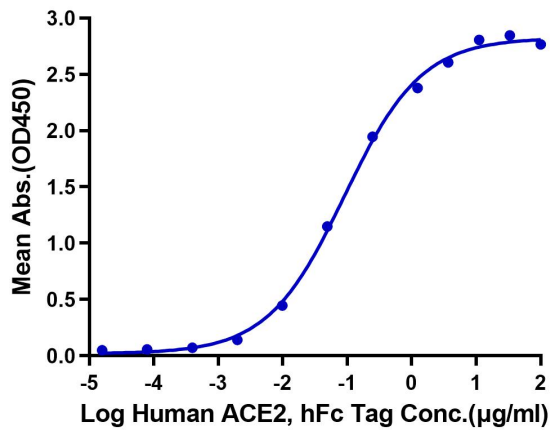


The purity of Biotinylated SARS-COV-2 Spike S Trimer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated SARS-COV-2 Spike S(Trimer), His Tag ELISA
0.2µg Biotinylated SARS-COV-2 Spike S(Trimer), His Tag Per Well



Immobilized Biotinylated SARS-COV-2 Spike S (Trimer) , His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human ACE2, hFc Tag with the EC50 of 91.1ng/ml determined by ELISA.