

# SARS-COV-2 Spike S Trimer Protein

Cat. No. COV-VM4SS



## Description

<b>Source</b>	Recombinant SARS-COV-2 Spike S is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Val16-Glu1188 trimer design.
<b>Accession</b>	QHD43416.1
<b>Molecular Weight</b>	The protein has a predicted MW of 136.6 kDa. Due to glycosylation, the protein migrates to 175-230 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

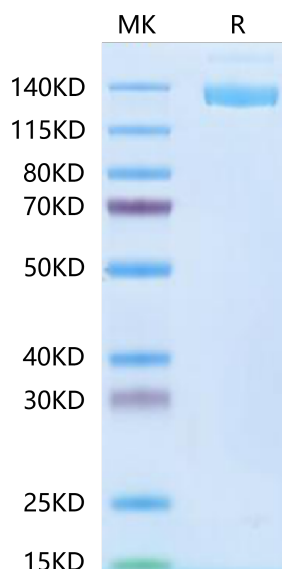
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

### Bis-Tris PAGE

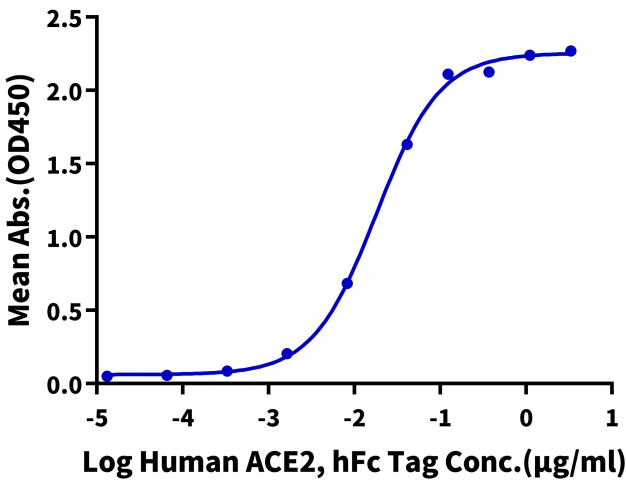


SARS-COV-2 Spike S Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

SARS-COV-2 Spike S Trimer, His Tag ELISA

0.1µg SARS-COV-2 Spike S Trimer, His Tag Per Well



Immobilized SARS-COV-2 Spike S Trimer, His Tag at 1µg/ml (100µl/Well). Dose response curve for Human ACE2, hFc Tag with the EC50 of 18.0ng/ml determined by ELISA.