# SARS-COV-2 Spike S Trimer Protein

COV-VM2SS Cat. No.



Description	
Source	Recombinant SARS-COV-2 Spike S Trimer Protein is expressed from HEK293 with monomeric hFc tag at the C-Terminus.
	It contains Val16-Glu1188.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 158.3 kDa. Due to glycosylation, the protein migrates to 230-250 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
	> 95% as determined by HPLC
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.

**Background** 

Storage

Reconstitution

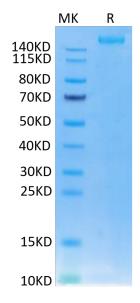
The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

-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.

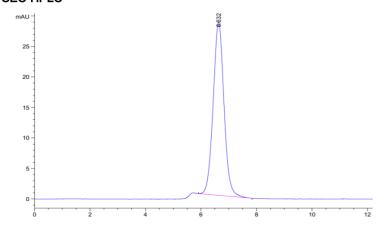
### **Assay Data**

#### **Bis-Tris PAGE**



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

### SEC-HPLC



The purity of SARS-COV-2 Spike S (Trimer) is greater than 95% as determined by SEC-HPLC. **Assay Data** 

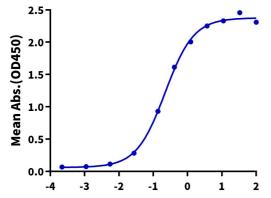
**ELISA Data** 



KAGTUS

# SARS-COV-2 Spike S (Trimer), hFc Tag ELISA

0.5μg Human ACE2, His Tag Per Well



Log SARS-COV-2 Spike S (Trimer), hFc Tag Conc.(μg/ml)

Immobilized Human ACE2, His Tag at  $5\mu g/ml$  (100 $\mu l/well$ ) on the plate. Dose response curve for SARS-COV-2 Spike S (Trimer) , hFc Tag with the EC50 of  $0.22\mu g/ml$  determined by ELISA.