

# SARS Spike S1 Protein

Cat. No. SAR-VM4S1



## Description

<b>Source</b>	Recombinant SARS spike S1 protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser14-Arg667.
<b>Accession</b>	P59594
<b>Molecular Weight</b>	The protein has a predicted MW of 75.9 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

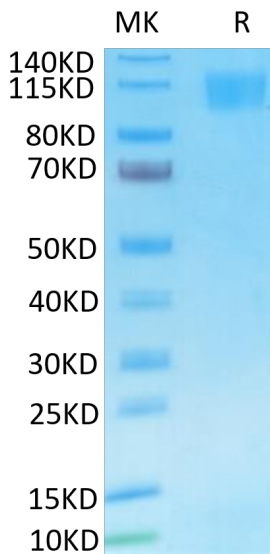
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

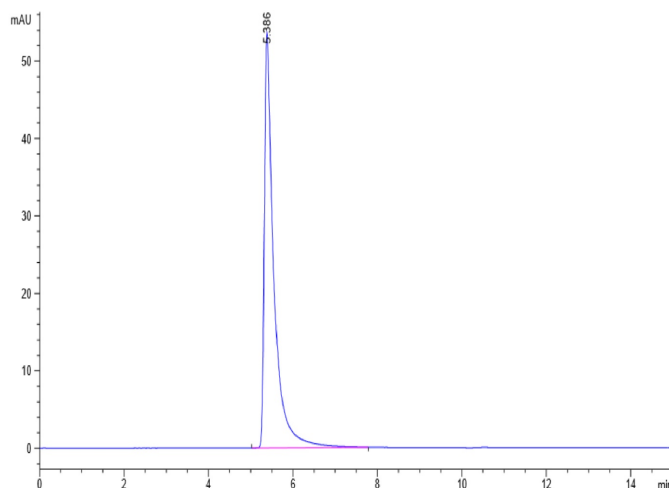
## Assay Data

### Bis-Tris PAGE



SARS Spike S1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of SARS spike S1 is greater than 95% as determined by SEC-HPLC.