

# Biotinylated SARS Spike RBD Protein

Cat. No. SAR-VM4BDB

## Description

<b>Source</b>	Recombinant Biotinylated SARS RBD Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Arg306-Phe527.
<b>Accession</b>	P59594
<b>Molecular Weight</b>	The protein has a predicted MW of 27.9 kDa. Due to glycosylation, the protein migrates to 36-46 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

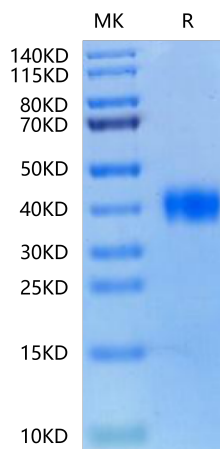
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<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.

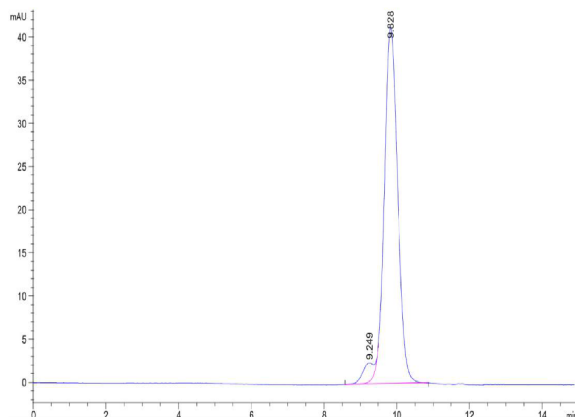
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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

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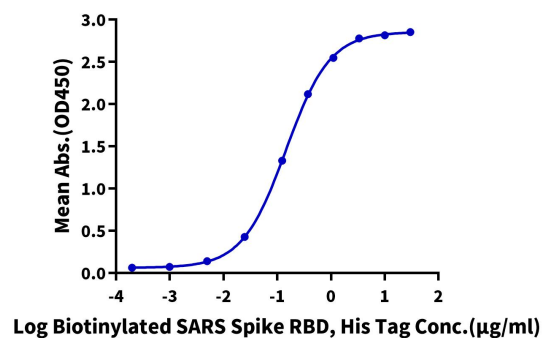
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## Assay Data

### ELISA Data

#### Biotinylated SARS Spike RBD, His Tag ELISA

0.5µg Human ACE2, hFc Tag Per Well



Immobilized Human ACE2, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated SARS Spike RBD, His Tag with the EC50 of 0.17µg/ml determined by ELISA.