

Datasheet for ABIN7274399

**SARS-CoV-2 Spike Protein (RBD) (His-Avi Tag)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with His-Avi Tag.

## Product Details

Sequence:	Arg319-Asn532
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized SARS-COV-2 Spike RBD, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.5 ng/ml determined by ELISA. The affinity constant of 13.8 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	SARS-CoV-2 Spike
Abstract:	<a href="#">SARS-CoV-2 Spike Products</a>

## Target Details

Background:	S protein RBD, S glycoprotein RBD, Spike protein RBD, 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.
Molecular Weight:	27 kDa. Due to glycosylation, the protein migrates to 36-40 kDa based on Tris-Bis PAGE result.

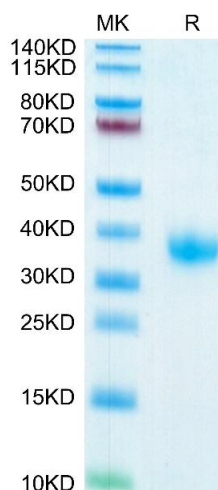
## Application Details

Restrictions:	For Research Use only
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## Handling

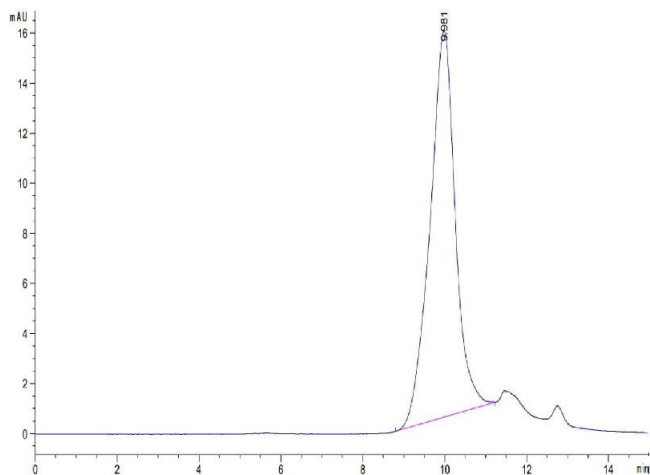
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	4 °C, -80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

## Images



### SDS-PAGE

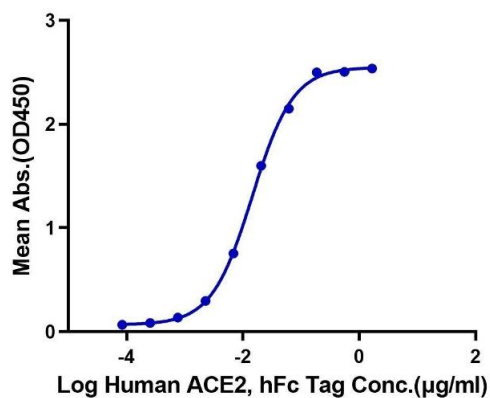
**Image 1.** SARS-COV-2 Spike RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of SARS-COV-2 Spike RBD is greater than 95 % as determined by SEC-HPLC.

**SARS-COV-2 Spike RBD, His Tag ELISA**  
0.1µg SARS-COV-2 Spike RBD, His Tag Per Well



**ELISA**

**Image 3.** Immobilized SARS-COV-2 Spike RBD, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC<sub>50</sub> of 14.5 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274399.