

Datasheet for ABIN7274400

SARS-CoV-2 Spike Protein (RBD) (His-Avi Tag,Biotin)[Go to Product page](#)**3** 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,Biotin.

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 Human ACE2, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated SARS COV-2 Spike RBD, His Tag with the EC50 of 0.097µg/ml determined by ELISA. See testing image for detail.

Target Details

Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products

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

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.

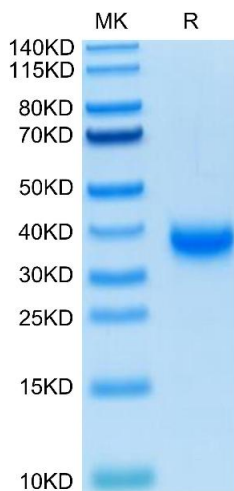
Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

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.

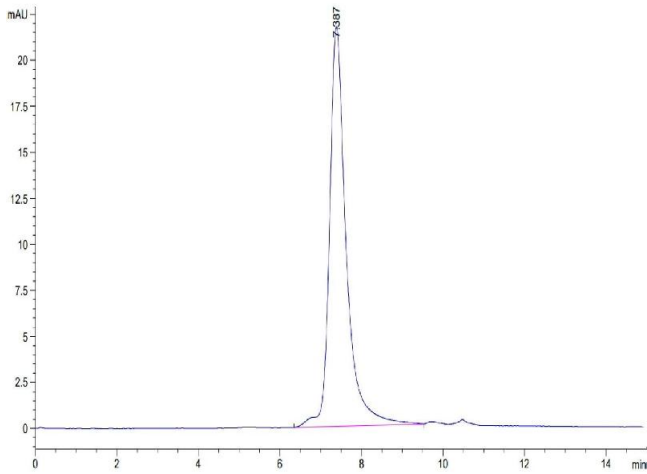
Expiry Date: 12 months

Images



SDS-PAGE

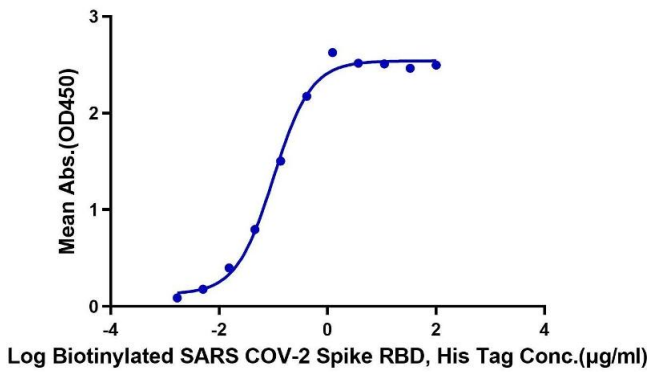
Image 1. Biotinylated SARS-COV-2 Spike RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

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

Biotinylated SARS COV-2 Spike RBD, His Tag ELISA
0.2µg Human ACE2, His Tag Per Well



ELISA

Image 3. Immobilized Human ACE2, His Tag at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated SARS COV-2 Spike RBD, His Tag with the EC50 of 0.097 µg/mL determined by ELISA.