



Synonym

Spike,S protein RBD,Spike glycoprotein Receptor-binding domain,S glycoprotein RBD,Spike protein RBD

Source

Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag(SPD-C82Aa) is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # [QHD43416.1](#)).

Predicted N-terminus: Arg 319

Molecular Characterization

S protein RBD(Arg 319 - Lys 537)	mFc(Val 98 - Lys 324)	Avi
QHD43416.1	AAK53870.1	

This protein carries a mouse IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 52.5 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

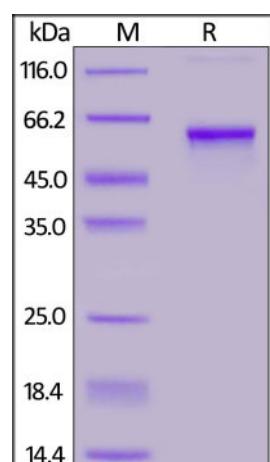
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

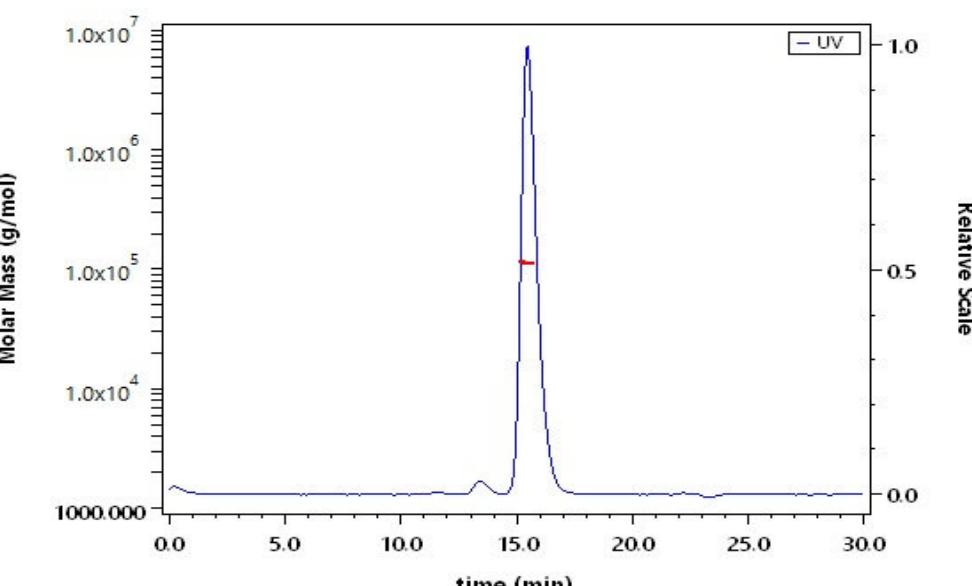
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag (Cat. No. SPD-C82Aa) is more than 90% and the molecular weight of this protein is around 105-120 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

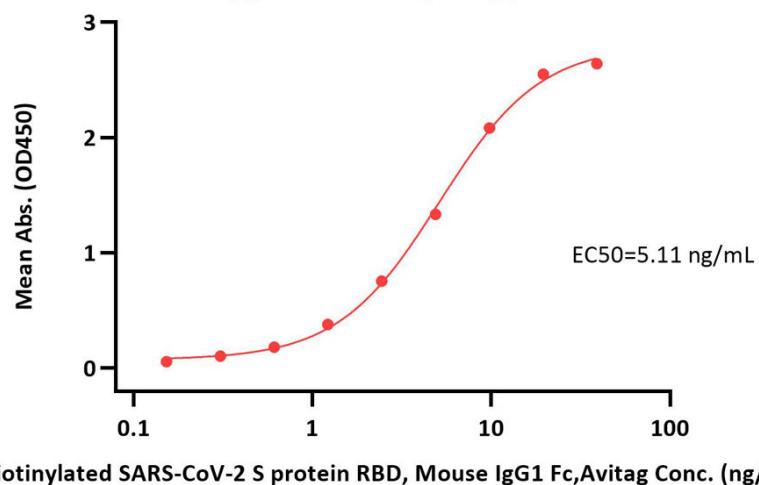
Discounts, Gifts,
and more!



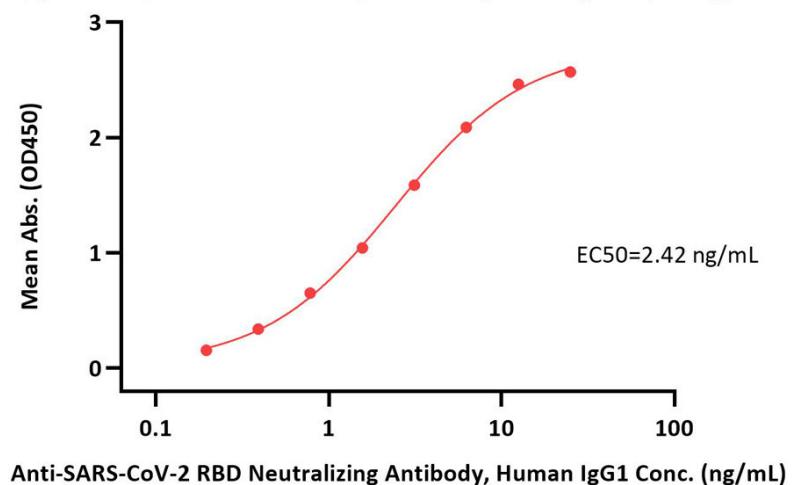
» www.acrobiosystems.com



Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag ELISA
 0.1 µg of Human ACE2, Fc Tag per well



Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag ELISA
 0.1 µg of Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag per well



Immobilized Human ACE2, Fc Tag (Cat. No. AC2-H5257) at 1 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag™(MALS verified) (Cat. No. SPD-C82Aa) with a linear range of 0.2-10 ng/mL (QC tested).

Immobilized Biotinylated SARS-CoV-2 S protein RBD, Mouse IgG1 Fc,Avitag™(MALS verified) (Cat. No. SPD-C82Aa) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5µg/well) plate, can bind Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 (Cat. No. SAD-S35) with a linear range of 0.2-3 ng/mL (Routinely tested).

Background

It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Discounts, Gifts,
and more!

