Datasheet for ABIN7275552

SARS-CoV-2 Spike S1 Protein (Fc-Avi Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Origin:	SARS Coronavirus (SARS-CoV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with Fc-Avi Tag.

Product Details

Sequence:	Ser14-Arg667
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 at 2µg/ml (100µl/Well).Dose response curve for SARS Spike S1, hFc Tag with the EC50 of 0.39µg/ml determined by ELISA. See testing image for detail.

Target Details

Target:	SARS-CoV-2 Spike S1
Alternative Name:	SARS-CoV Spike S1 (SARS-CoV-2 Spike S1 Products)
Background:	S1 protein, Spike protein S1, Spike,S1 protein, S glycoprotein Subunit1,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

Target Details

	plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Molecular Weight:	100.6 kDa. Due to glycosylation, the protein migrates to 120-140 kDa based on Tris-Bis PAGE result.
UniProt:	P59594

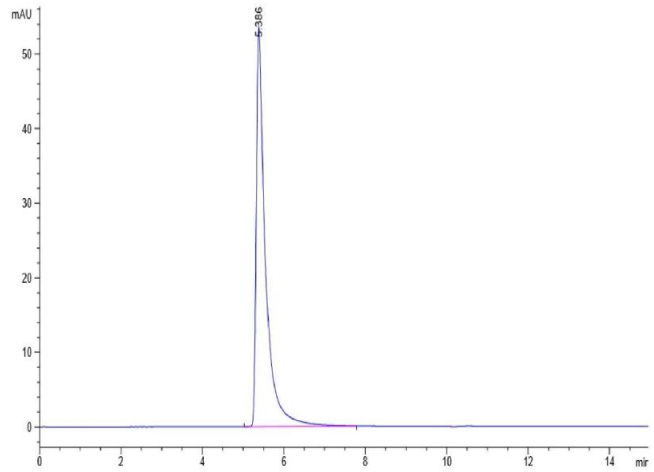
Application Details

Restrictions:	For Research Use only

Handling

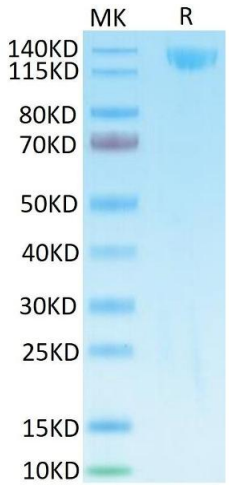
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (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



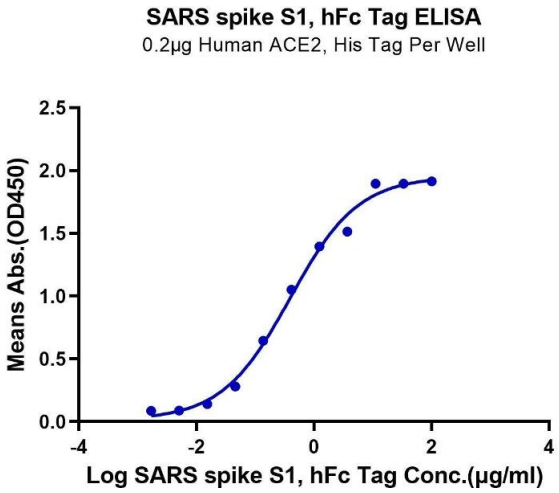
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of SARS spike S1 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. SARS Spike S1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

Image 3. Immobilized Human ACE2 at 2 µg/mL (100 µ L/Well).Dose response curve for SARS Spike S1, hFc Tag with the EC50 of 0.39 µg/mL determined by ELISA.

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