

Datasheet for ABIN6953175

**SARS-CoV-2 Spike S1 Protein (D614G) (His tag)****4** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	D614G
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA

## Product Details

Purpose:	SARS-CoV-2 (COVID-19) S1 protein (D614G), His Tag
Sequence:	AA 16-685
Characteristics:	SARS-CoV-2 S1 protein (D614G), His Tag (ABIN6953175) is expressed from human 293 cells (HEK293). It contains AA Val 16 - Arg 685 (Accession # QHD43416.1). Predicted N-terminus: Val 16 This protein carries a polyhistidine tag at the C-terminus.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

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Target:	SARS-CoV-2 Spike S1
Abstract:	<a href="#">SARS-CoV-2 Spike S1 Products</a>
Target Type:	Viral Protein
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.
Molecular Weight:	76.8 kDa
Gene ID:	43740568
UniProt:	<a href="#">P0DTC2</a>

## Application Details

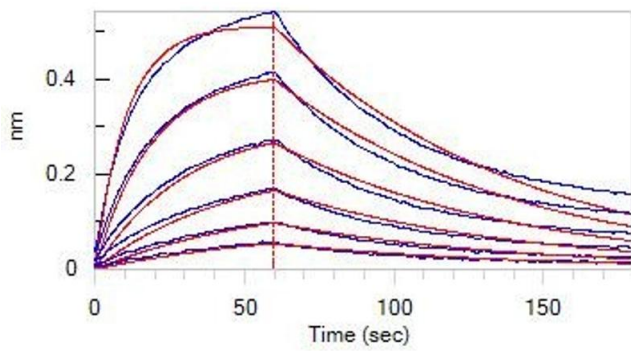
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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

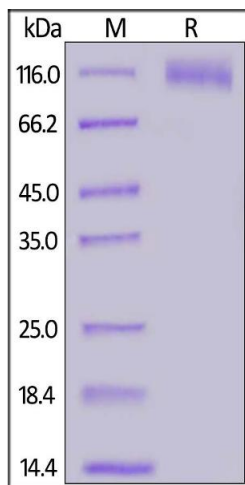
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Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution.



### Bio-Layer Interferometry

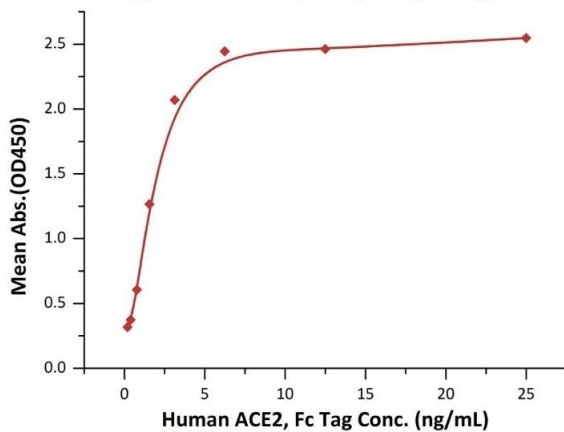
**Image 1.** Loaded Human ACE2, Fc Tag (Cat. No. ABIN6952459) on Protein A Biosensor, can bind SARS-CoV-2 S1 protein (D614G), His Tag (Cat. No. ABIN6953185) with an affinity constant of 76.4 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



### SDS-PAGE

**Image 2.** SARS-CoV-2 S1 protein (D614G), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

**SARS-CoV-2 S1 protein (D614G), His Tag ELISA**  
0.2 µg of SARS-CoV-2 S1 protein (D614G), His Tag per well



### ELISA

**Image 3.** Immobilized SARS-CoV-2 S1 protein (D614G), His Tag (Cat. No. ABIN6953185) at 2 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag (Cat. No. ABIN6952459) with a linear range of 0.2-3 ng/mL (QC tested).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6953175.