Datasheet for ABIN7274404

SARS-CoV-2 Spike S1 Protein (D614G) (His-Avi Tag)

3 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-Avi Tag.

Product Details

Purpose:	SARS-COV-2 Spike S1 (D614G) Protein
Sequence:	Gln14-Arg683 (D614G)
Characteristics:	Recombinant SARS-COV-2 Spike S1 (D614G) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Gln14-Arg683(D614G).
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 S1 (D614G) , His Tag at 2µg/ml (100µl/Well) on plate.Dose response curve for Human ACE2, hFc Tag with the EC50 of 42ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	The SARS-CoV-2 spike (S) protein is the target of vaccine design efforts to end the COVID-19 pandemic. Despite a low mutation rate, isolates with the D614G substitution in the S protein appeared early during the pandemic, and are now the dominant form worldwide. Here, we analyze the D614G mutation in the context of a soluble S ectodomain construct.
Molecular Weight:	77.9 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. 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:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

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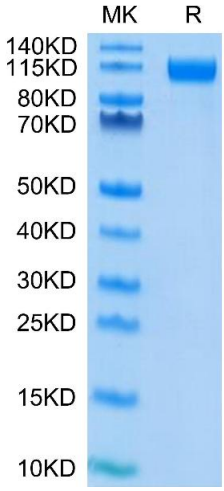
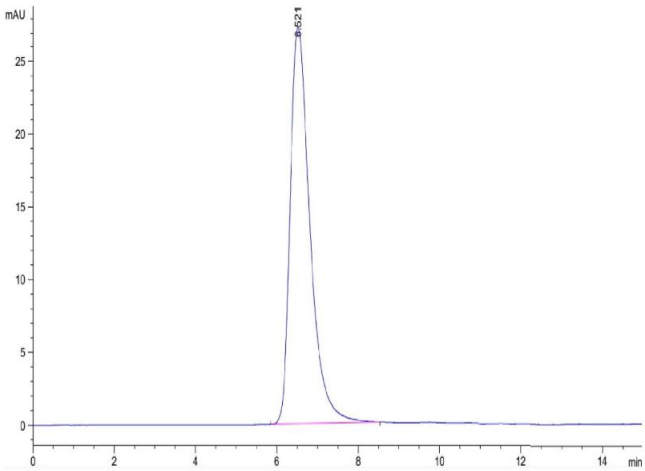


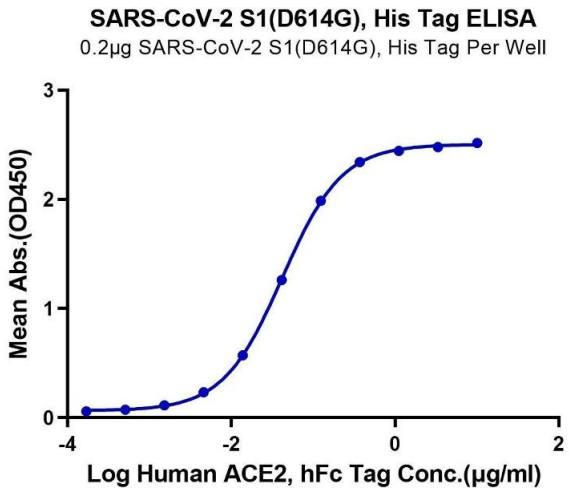
SDS-PAGE

Image 1. SARS-COV-2 Spike S1 (D614G) 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 S1 (D614G) is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 3. Immobilized SARS-CoV-2 S1 (D614G), His Tag at 2 μg/mL (100 μL/Well) on plate.Dose response curve for Human ACE2, hFc Tag with the EC50 of 42 ng/mL determined by ELISA.

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