



[Go to Product page](#)

Datasheet for ABIN7274402

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

3 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	D614G, Trimer
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.

Product Details

Purpose:	SARS-COV-2 Spike S Trimer (D614G) Protein
Sequence:	Val16-Glu1188 (D614G)
Characteristics:	Recombinant SARS-COV-2 Spike S Trimer(D614G) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Val16-Glu1188 (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 Spike S Trimer (D614G) , His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 46.5ng/ml determined by ELISA. See testing image for detail.

Target Details

Target: SARS-CoV-2 Spike

Abstract: [SARS-CoV-2 Spike Products](#)

Target Type: Viral Protein

Background: The SARS-CoV-2 spike (S) protein variant D614G supplanted the ancestral virus worldwide, reaching near fixation in a matter of months. Recently, that D614G was been found more infectious than the ancestral form on human lung cells, colon cells, and on cells rendered permissive by ectopic expression of human ACE2 or of ACE2 orthologs from various mammals, including Chinese rufous horseshoe bat and Malayan pangolin.

Molecular Weight: 136.7 kDa. Due to glycosylation, the protein migrates to 175-230 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

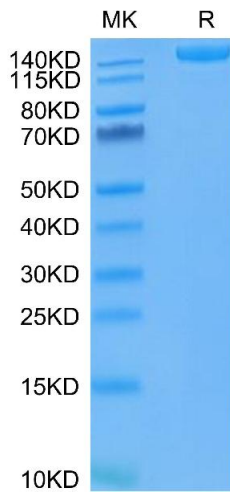
Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.

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

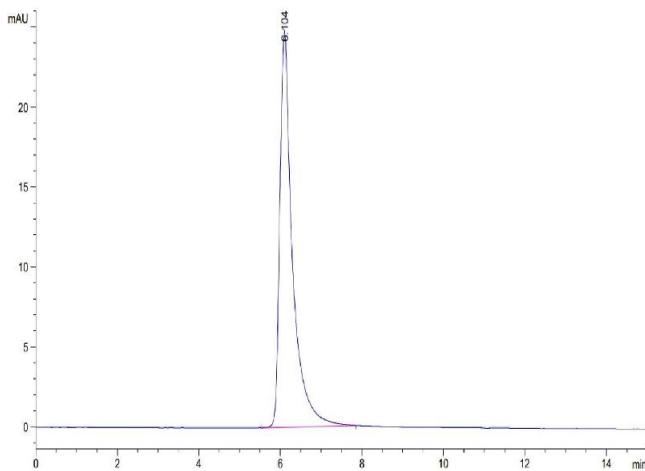
Storage Comment: -20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Expiry Date: 12 months



SDS-PAGE

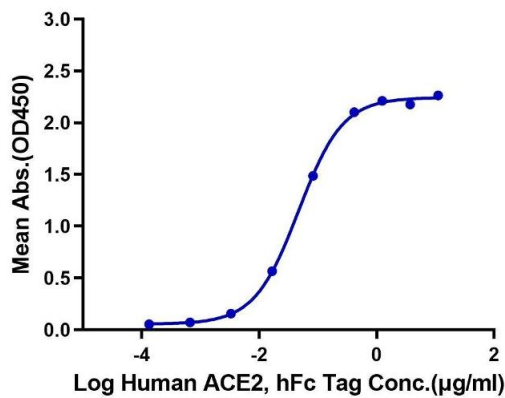
Image 1. SARS-COV-2 Spike S Trimer (D614G) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of SARS-COV-2 Spike S Trimer(D614G) is greater than 95 % as determined by SEC-HPLC.

SARS-COV-2 Spike S Trimer(D614G), His Tag ELISA
0.1 µg SARS-COV-2 Spike S Trimer(D614G), His Tag Per Well



ELISA

Image 3. Immobilized SARS-COV-2 Spike S Trimer(D614G), His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 46.5 ng/mL determined by ELISA.