

Datasheet for ABIN6953301

SARS-CoV-2 Spike Protein (D614G, Super Stable Trimer) (His tag)[Go to Product page](#)

4 Images

Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	D614G, Super Stable 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 tag.
Application:	ELISA

Product Details

Purpose:	SARS-CoV-2 S protein (D614G), His Tag, Super stable trimer (MALS verified)
Characteristics:	SARS-CoV-2 S protein (D614G), His Tag, Super stable trimer is the ectodomain of SARS-CoV-2 S protein that contains AA Val 16 - Pro 1213 (Accession # QHD43416.1) and D614G mutation, which has become increasingly common in SARS-CoV-2 viruses from around the world . The recombinant protein is expressed from human 293 cells (HEK293) with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus. Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively.
Purity:	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-MALS.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

Target Details

Target: SARS-CoV-2 Spike

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

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: 138.0 kDa

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

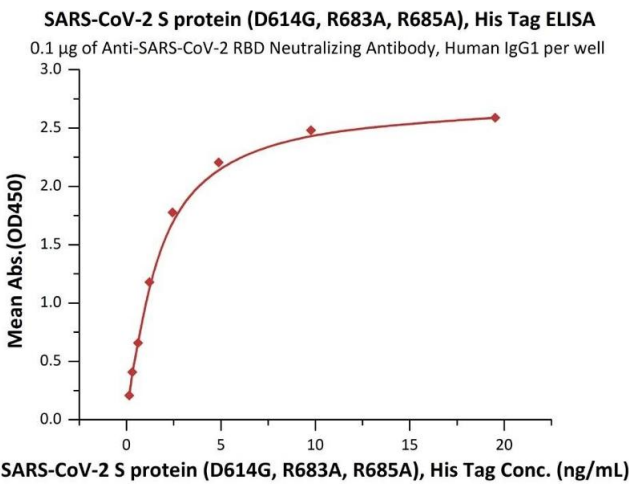
Format: Lyophilized

Buffer: PBS

Storage: -20 °C, -80 °C

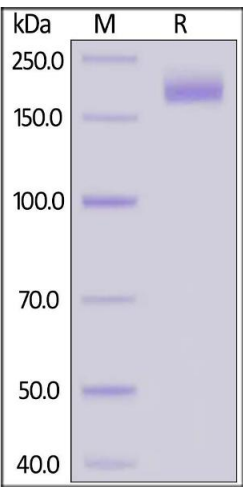
Storage Comment: For long term storage, the product should be stored at lyophilized state at -20°C or lower.
This product is stable after storage at:
-20°C to -70°C for 12 months in lyophilized state
70°C for 3 months under sterile conditions after reconstitution.

Expiry Date: 12 months



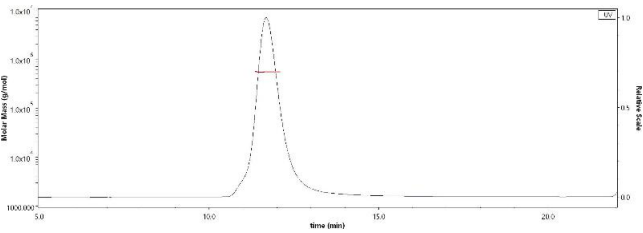
ELISA

Image 1. Immobilized Anti-SARS-CoV-2 RBD Neutralizing Antibody, Human IgG1 (Cat. No. ABIN6952616) at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein (D614G), His Tag, Super stable trimer (Cat. No. ABIN6953301 with a linear range of 0.2-2 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS-CoV-2 S protein (D614G), His Tag, Super stable trimer on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of SARS-CoV-2 S protein (D614G), His Tag, Super stable trimer (Cat. No. ABIN6953301) was more than 90 % and the molecular weight of this protein is around 520-620 kDa verified by SEC-MALS.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6953301.