

Datasheet for ABIN6953299

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

5 Images

Overview

Quantity:	200 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	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, His Tag, Super stable trimer (MALS verified)
Sequence:	AA 16-1213
Characteristics:	SARS-CoV-2 S protein, His Tag, Super stable trimer is the ectodomain of SARS-CoV-2 S protein which contains AA Val 16 - Pro 1213 (Accession # QHD43416.1). 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
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

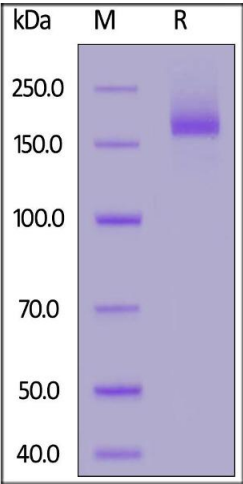
Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products
Target Type:	Viral Protein
Background:	It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing 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:	This product is specifically designed for serological test development.
Restrictions:	For Research Use only

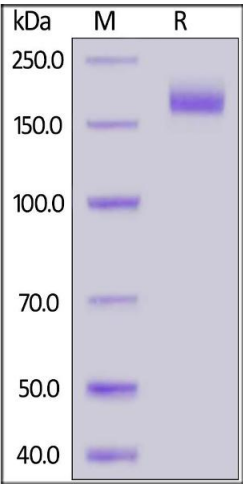
Handling

Format:	Liquid
Buffer:	PBS
Storage:	-80 °C
Storage Comment:	The product MUST be stored at -70°C or lower upon receipt.
Expiry Date:	3 months



SDS-PAGE

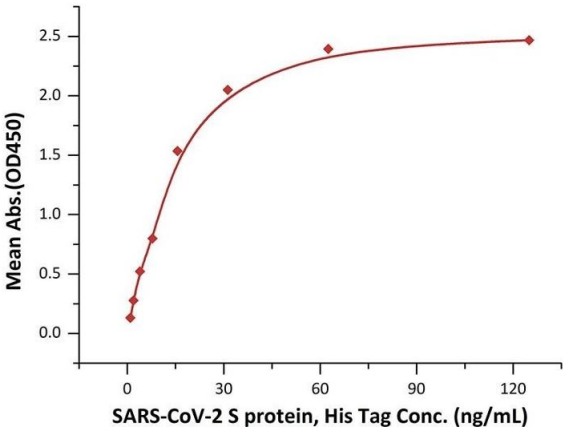
Image 1. SARS-CoV-2 S protein, His Tag, Super stable trimer on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .



SDS-PAGE

Image 2. SARS-CoV-2 S protein, 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 % .

SARS-CoV-2 S protein, His Tag ELISA
0.1 µg of Human ACE2, Fc Tag per well



ELISA

Image 3. Immobilized Human ACE2, Fc Tag (Cat. No. ABIN6952465) at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein, His Tag, Super stable trimer (Cat. No. ABIN6953299) with a linear range of 1-31 ng/mL (QC tested).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6953299.