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Datasheet for ABIN6953302 SARS-CoV-2 Spike Protein (Super Stable Trimer) (His tag)

6 Images

2 Publications



Overview

Quantity:	50 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 & NS-EM 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 fibritin 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

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Product Details

Endotoxin Level:

Less than 1.0 EU per μg by the LAL method.

Target Details

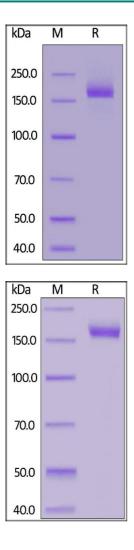
Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products
Target Type:	Viral Protein
Background:	It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing 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:	This product is specifically designed for antibody drug development.
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
Publications	
Product cited in:	Yokoyama, Ichiki: "Nano-size dependence in the adsorption by the SARS-CoV-2 spike protein over gold colloid." in: Colloids and surfaces. A, Physicochemical and engineering aspects , N

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615, pp. 126275, (2021) (PubMed).

Wei, Wan, Yan, Wang, Zhang, Yang, Zhang, Fan, Li, Deng, Sun, Gong, Yang, Wang, Wang, Li, Yang, Li, Zhang, Wang, Du, Zong, Yin, Zhang, Wang, Peng, Lin, Feng, Qin, Chen, Gao, Zhang, Cao, Zhong: "HDL-scavenger receptor B type 1 facilitates SARS-CoV-2 entry." in: **Nature metabolism**, Vol. 2, Issue 12, pp. 1391-1400, (2020) (PubMed).

Images



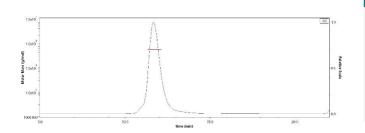
SDS-PAGE

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 %.

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Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of SARS-CoV-2 S protein, His Tag, Super stable trimer (Cat. No. SPN-C52H9) 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 6 images are available for ABIN6953302.