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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:	<p>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.</p> <p>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.</p>
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: 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: Chen, Li, Zhang, Tang, Cao, Xu, Wu: "Complement C5a/C5aR pathway potentiates the pathogenesis of gastric cancer by down-regulating p21 expression." in: **Cancer letters**, Vol. 412,

pp. 30-36, (2017) ([PubMed](#)).

Ye, Kong, Zhang: "Complement Split Products C3a/C5a and Receptors: Are They Regulated by Circulating Angiotensin II Type 1 Receptor Autoantibody in Severe Preeclampsia?" in:

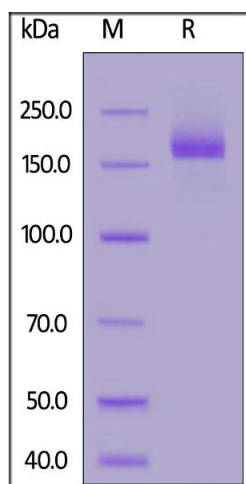
Gynecologic and obstetric investigation, Vol. 81, Issue 1, pp. 28-33, (2016) ([PubMed](#)).

Eriksson, Studahl, Bergström: "Acute and prolonged complement activation in the central nervous system during herpes simplex encephalitis." in: **Journal of neuroimmunology**, Vol. 295-296, pp. 130-8, (2016) ([PubMed](#)).

Wirstlein, Mikołajczyk, Jasiński, Skrzypczak: "Evaluation of the markers of inflammation in the umbilical cord blood of newborns of mothers with thrombophilia." in: **American journal of reproductive immunology (New York, N.Y. : 1989)**, Vol. 72, Issue 6, pp. 561-70, (2014) ([PubMed](#)).

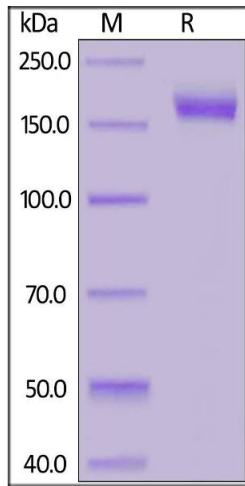
Denny, Coulthard, Finnell, Callaway, Taylor, Woodruff: "Elevated complement factor C5a in maternal and umbilical cord plasma in preeclampsia." in: **Journal of reproductive immunology**, Vol. 97, Issue 2, pp. 211-6, (2013) ([PubMed](#)).

Images



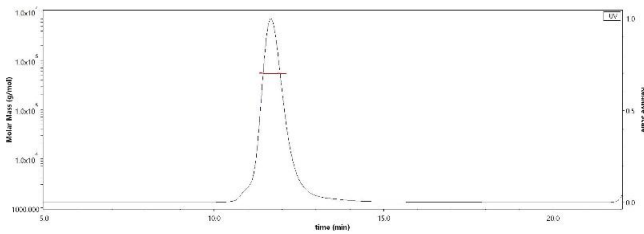
SDS-PAGE

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 % .



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.