



Datasheet for ABIN7274459

SARS-CoV-2 Spike S1 Protein (B.1.617.2 - delta) (His tag)



[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	B.1.617.2 - delta
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His tag.

Product Details

Purpose:	SARS-CoV-2 Spike S1 (Delta B.1.617.2) Protein
Sequence:	Gln14-Arg683 (T19R, G142D, E156G, HR157-158 del, L452R, T478K, D614G, P681R)
Characteristics:	Recombinant SARS-CoV-2 Spike S1 (Delta B.1.617.2) Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln14-Arg683(T19R, G142D, E156G, HR157-158 del, L452R, T478K, D614G, P681R).
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 S1 (Delta B.1.617.2) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 21.8ng/ml determined by ELISA. See testing image for detail.

Target Details

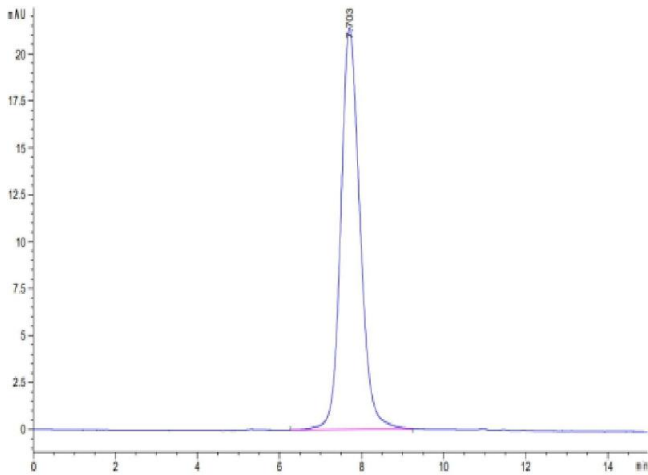
Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Molecular Weight:	75.92 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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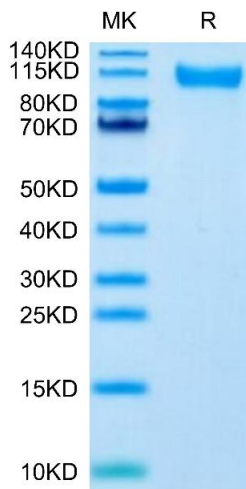
Handling

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



Size-exclusion chromatography-High Pressure Liquid Chromatography

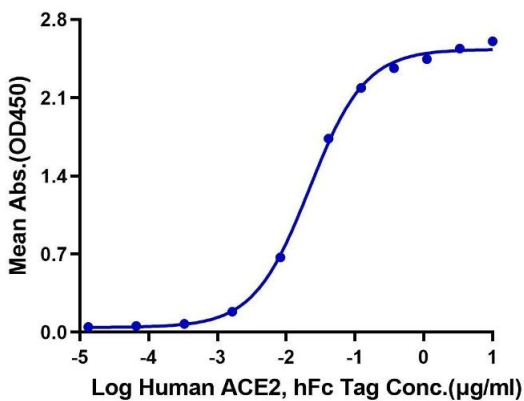
Image 1. The purity of SARS-CoV-2 Spike S1 (Delta B.1.617.2) is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. SARS-CoV-2 Spike S1 (Delta B.1.617.2) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.

SARS-CoV-2 Spike S1 (Delta B.1.617.2), His Tag ELISA
0.05µg SARS-CoV-2 Spike S1 (Delta B.1.617.2), His Tag Per Well



ELISA

Image 3. Immobilized SARS-CoV-2 Spike S1 (Delta B.1.617.2), His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 21.8 ng/mL determined by ELISA.