Datasheet for ABIN7274391

SARS-CoV-2 Spike S1 Protein (E484K, K417N, N501Y) (His tag)

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3 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	E484K, K417N, N501Y
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 (N501Y,K417N,E484K) Protein
Sequence:	Val16-Arg685 (N501Y,K417N,E484K)
Characteristics:	Recombinant SARS-COV-2 Spike S1 (N501Y,K417N,E484K) Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Val16-Arg685(N501Y,K417N,E484K).
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 (N501Y,K417N,E484K) , His Tag at 0.5µg/ml (100ul/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 0.02µg/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:	75.9 kDa. Due to glycosylation, the protein migrates to 90-130 kDa based on Tris-Bis PAGE result.
NCBI Accession:	YP_009724390

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

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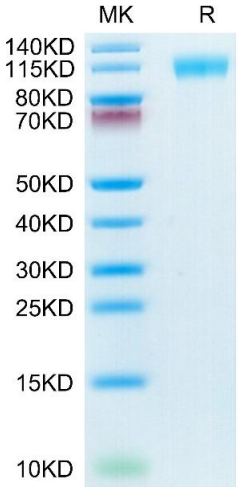
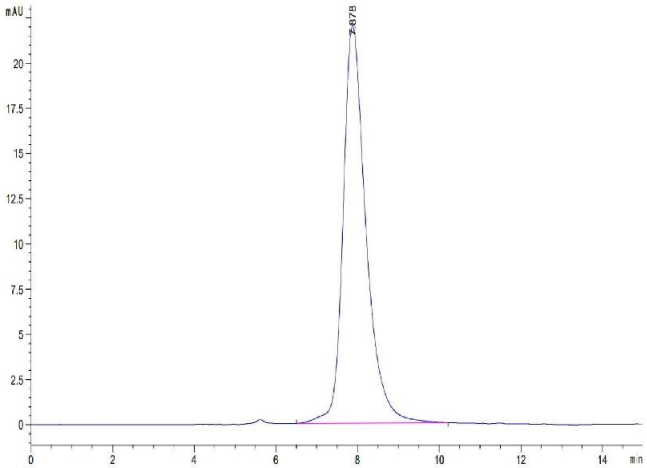


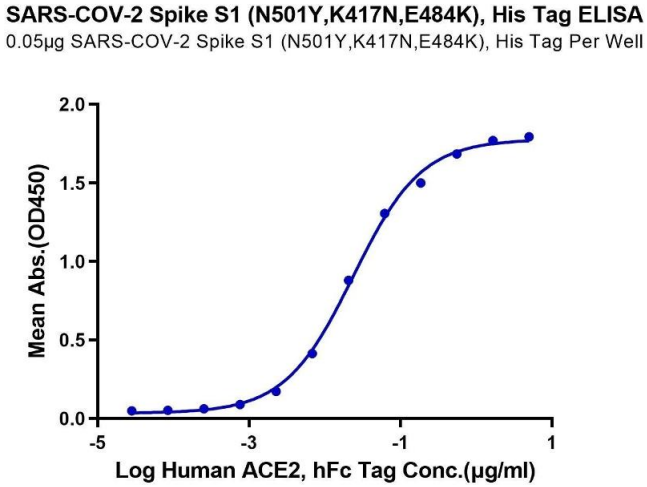
SDS-PAGE

Image 1. SARS-COV-2 Spike S1 (N501Y,K417N,E484K) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of SARS-COV-2 Spike S1 (N501Y,K417N,E484K) is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 3. Immobilized SARS-COV-2 Spike S1 (N501Y,K417N,E484K) , 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 0.02 µg/mL determined by ELISA.

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