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Datasheet for ABIN7274394

## SARS-CoV-2 Spike S1 Protein (N501Y) (His tag)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	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) Protein
Sequence:	Val16-Arg685
Characteristics:	Recombinant SARS-COV-2 Spike S1 (N501Y) Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Val16-Arg685.
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) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2 , hFc Tag with the EC50 of 80.3ng/ml determined by ELISA. See testing image for detail.

## Target Details

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Target:	SARS-CoV-2 Spike S1
Abstract:	<a href="#">SARS-CoV-2 Spike S1 Products</a>
Target Type:	Viral Protein
Background:	A new variant of SARS-CoV-2 is spreading in the UK and is rapidly becoming a global threat. It is characterised by multiple mutations in the spike protein. Among them, N501Y is of major concern because it involves one of the six key amino acid residues determining a tight interaction of the SARS-CoV-2 receptor-binding domain (RBD) with its cellular receptor angiotensin-converting enzyme 2 (ACE2).
Molecular Weight:	76 kDa. Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.
NCBI Accession:	<a href="#">YP_009724390</a>

## Application Details

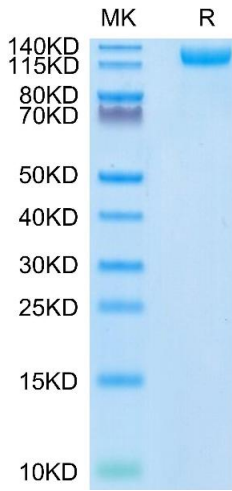
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Restrictions:	For Research Use only
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## Handling

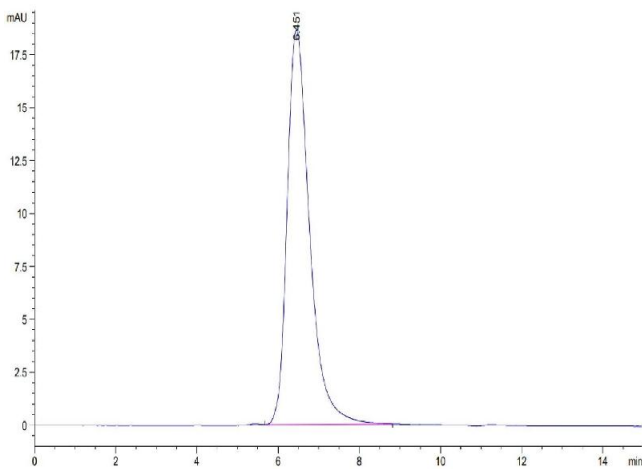
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 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



### SDS-PAGE

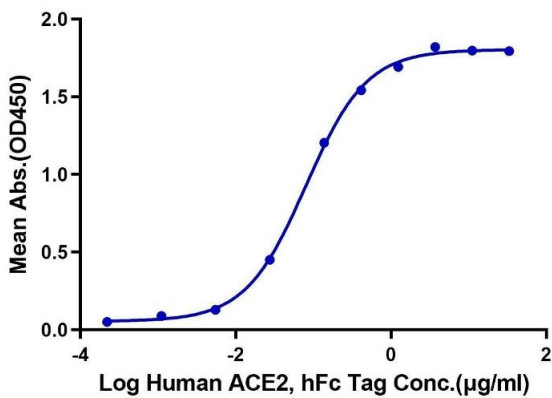
**Image 1.** SARS-COV-2 Spike S1 (N501Y) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Size-exclusion chromatography-High Pressure Liquid Chromatography

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

**SARS-COV-2 Spike S1(N501Y), His Tag ELISA**  
0.05µg SARS-COV-2 Spike S1(N501Y), His Tag Per Well



### ELISA

**Image 3.** Immobilized SARS-COV-2 Spike S1 (N501Y), 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 80.3 ng/mL determined by ELISA.