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Datasheet for ABIN7274394

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

3 Images

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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.

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Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
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:	YP_009724390

Application Details

Restrictions:	For Research Use only

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

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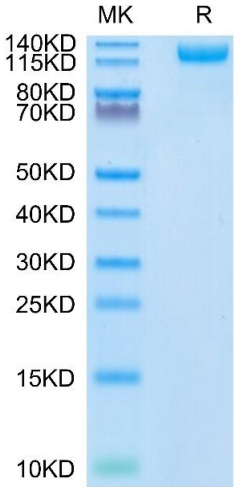
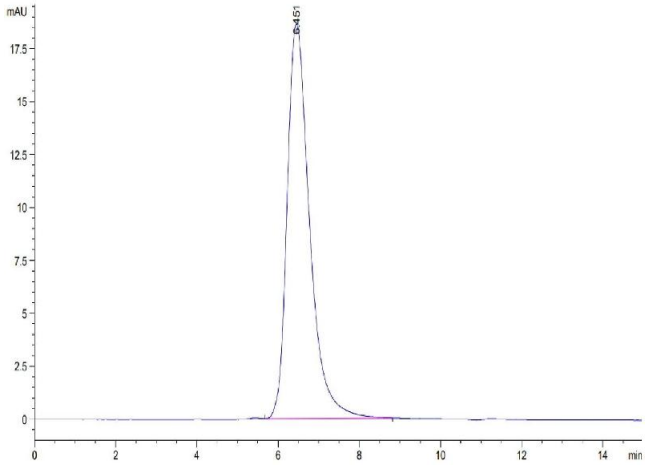


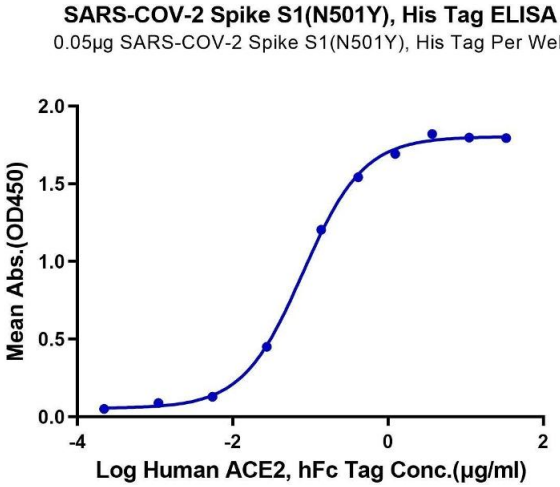
SDS-PAGE

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.



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.

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