Datasheet for ABIN7274405

SARS-CoV-2 Spike S1 Protein (B.1.1.529 - Omicron) (His-Avi Tag,Biotin)

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	B.1.1.529 - Omicron
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-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) Protein
Sequence:	Gln14-Arg683 (A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H)
Characteristics:	Recombinant Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Gln14-Arg683(A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H).
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.

Product Details

Biological Activity Comment:	Immobilized Biotinylated Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag at 1μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 0.25μg/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:	77.94 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.

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 % saccharose 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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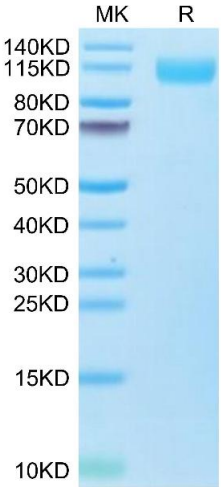
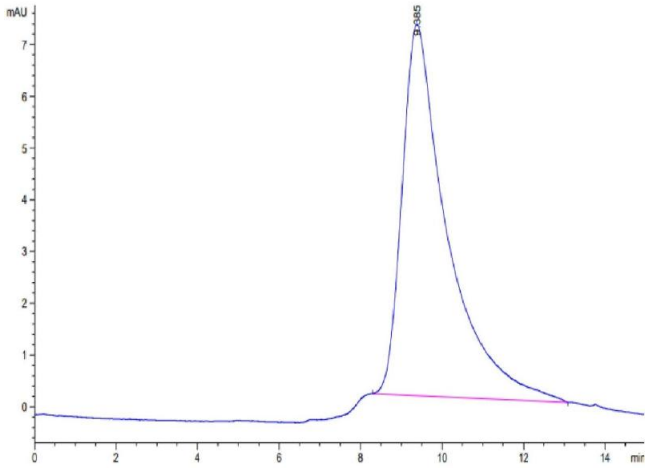


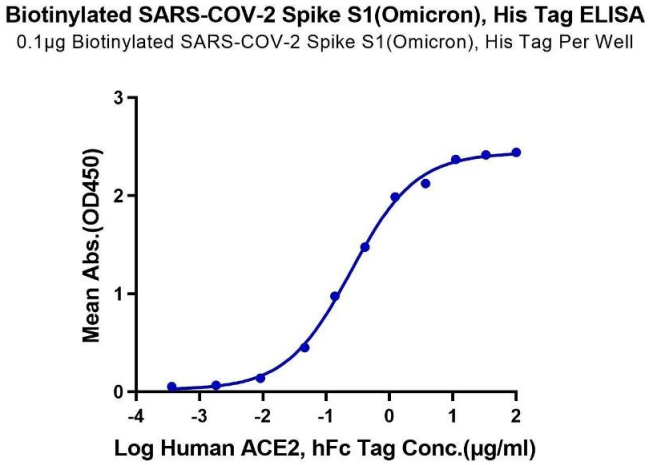
SDS-PAGE

Image 1. Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) 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 Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 3. Immobilized Biotinylated Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag at 1 μg/mL (100 μ L/Well) on streptavidin (5 μg/mL) precoated plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 0.25 μg/mL determined by ELISA.

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