## Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) Protein





Description	
Source	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).
Accession	QHO60594.1
Molecular Weight	The protein has a predicted MW of 77.94 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and S	Storage Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% saccharose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after

optimal storage. Please minimize freeze-thaw cycles.

## **Background**

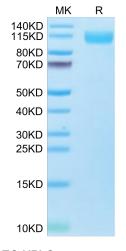
Storage

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.

reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for

## **Assay Data**

#### Tris-Bis PAGE

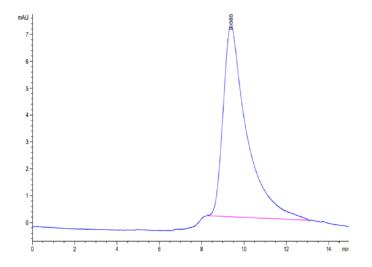


Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC** 



## **Assay Data**

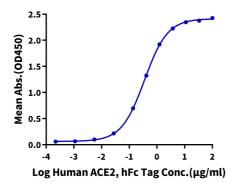


The purity of Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) is greater than 95% as determined by SEC-HPLC.

#### **ELISA Data**

# Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529), His Tag ELISA

 $0.1 \mu g$  Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529), His Tag Per Well



Immobilized Biotinylated Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on streptavidin (5 $\mu$ g/ml) precoated plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 0.35 $\mu$ g/ml determined by ELISA.