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

Cat. No. COV-VM4SOB

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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

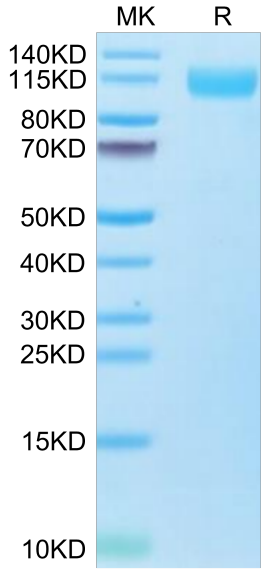
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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

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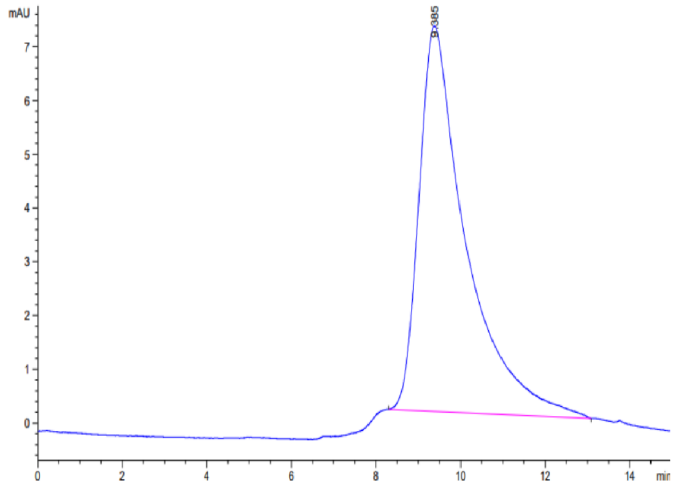
Assay Data

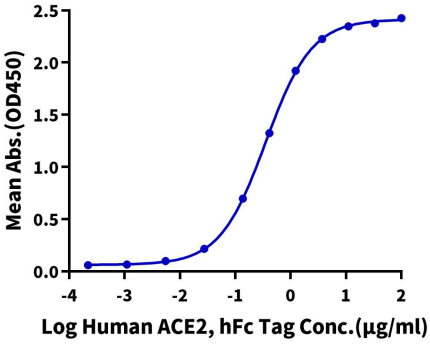


The purity of Biotinylated SARS-COV-2 Spike S1 (Omicron B.1.1.529) is greater than 95% as determined by SEC-HPLC.

ELISA Data

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

0.1μg 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 1μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 0.35μg/ml determined by ELISA.