

SARS-CoV-2 S1 Protein (Biotinylated, Omicron, B.1.1.529, HEK293, His-Avi)

Cat. No.:	HY-P77635
Synonyms:	S1 protein; Spike protein S1; Spike,S1 protein; S glycoprotein Subunit1
Species:	Virus
Source:	HEK293
Accession:	QHO60594 (Q14-R683(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))
Gene ID:	/
Molecular Weight:	110-120 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated SARS-COV-2 Spike S1 (B.1.1.529/Omicron) at 1 µg/mL (100µL/Well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human ACE2 with the EC ₅₀ of 1.02ug/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>The SARS-CoV-2 S1 Protein plays a crucial role in the early stages of viral infection. Spike protein S1 facilitates the attachment of the virion to the cell membrane by interacting with host receptors, thereby initiating the infection process. This initial binding event is pivotal for the subsequent entry of the virus into the host cell. Concurrently, Spike protein S2', serving as a viral fusion peptide, comes into play after S2 cleavage during virus endocytosis. The unmasking of S2' is a key step in the viral fusion process, enabling the merging of the viral membrane with the endosomal membrane and facilitating the release of the viral genetic material into the host cell cytoplasm. The concerted action of these S1 and S2' functionalities underscores the significance of the SARS-CoV-2 S1 Protein in mediating viral entry and fusion, crucial steps in the viral life cycle.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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