

SARS-CoV S1 Protein (HEK293, His-Avi)

Cat. No.:	HY-P78347
Synonyms:	S1 protein; Spike protein S1; Spike,S1 protein; S glycoprotein Subunit1
Species:	Virus
Source:	HEK293
Accession:	P59594 (S14-R667)
Gene ID:	1489668
Molecular Weight:	100-120 kDa

PROPERTIES

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 S protein is implicated in down-regulating host tetherin (BST2) through lysosomal degradation, thus counteracting its antiviral activity. In the context of infection, the S protein attaches the virion to the cell membrane by interacting with host receptors, initiating the viral entry process. The binding to human ACE2 and CLEC4M/DC-SIGNR receptors, coupled with the subsequent internalization of the virus into the endosomes of the host cell, induces conformational changes in the S glycoprotein. Additionally, proteolysis by cathepsin CTSL may unmask the fusion peptide of S2, activating membrane fusion within endosomes. These orchestrated events underscore the pivotal role of the SARS-CoV S protein in mediating viral entry and evading host antiviral defenses, shedding light on its significance in the pathogenesis of SARS-CoV infections. Further exploration is crucial to unveil the intricate molecular mechanisms underlying these processes and to identify potential targets for therapeutic interventions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA