

SARS-CoV S Protein RBD (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78198
Synonyms:	S protein RBD; S glycoprotein RBD; Spike protein RBD
Species:	Virus
Source:	HEK293
Accession:	P59594 (R306-F527)
Gene ID:	1489668
Molecular Weight:	36-46 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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.

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