

SARS-COV-2 S1 Protein (N501Y, HEK293, His)

Cat. No.:	HY-P78281
Synonyms:	S1 protein; Spike protein S1; Spike,S1 protein; S glycoprotein Subunit1
Species:	Virus
Source:	HEK293
Accession:	YP_009724390 (V16-R685)
Gene ID:	43740568
Molecular Weight:	115-140 kDa

PROPERTIES

Biological Activity	Immobilized SARS-COV-2 Spike S1 (N501Y) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC ₅₀ of 66.2ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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>SARS-Cov-2 is a enveloped positive-sense single-stranded RNA virus that causes COVID-19.</p> <p>SARS-CoV-2 possesses four structural proteins, namely the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M), and nucleocapsid protein (N).</p> <p>The SARS-Cov-2 S glycoprotein is located on the exterior of the viral particle, giving the coronavirus its crown-like appearance.</p> <p>The SARS-Cov-2 S glycoprotein can mediate the attachment and entry of viral particles into host cells and is an important target for vaccine development, antibody therapy, and antigen-based diagnostic esting^{[1][2][3][4][5]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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