

SARS-CoV-2 S Protein RBD (HEK293)

Cat. No.:	HY-P73396
Synonyms:	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein; S protein RBD; 2019-nCoV S protein RBD
Species:	Virus
Source:	HEK293
Accession:	YP_009724390.1 (R319-F541)
Gene ID:	43740568
Molecular Weight:	approximately 34 kDa

PROPERTIES

AA Sequence	<pre> R V Q P T E S I V R F P N I T N L C P F G E V F N A T R F A S V Y A W N R K R I S N C V A D Y S V L Y N S A S F S T F K C Y G V S P T K L N D L C F T N V Y A D S F V I R G D E V R Q I A P G Q T G K I A D Y N Y K L P D D F T G C V I A W N S N N L D S K V G G N Y N Y L Y R L F R K S N L K P F E R D I S T E I Y Q A G S T P C N G V E G F N C Y F P L Q S Y G F Q P T N G V G Y Q P Y R V V V L S F E L L H A P A T V C G P K K S T N L V K N K C V N F </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized biotinylated SARS-CoV-2 S Protein RBD at 2 µg/mL (100 µL/well) can bind ACE2 Protein, Human (mFc) and the EC ₅₀ is 20-80 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 (Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.) or 20 mM PB, 150 mM NaCl, pH 7.4.
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. 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>
-------------------	--

The SARS-Cov-2 S glycoprotein is located on the exterior of the viral particle, giving the coronavirus its crown-like appearance.

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]}.

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