Product Data Sheet

SARS-CoV-2 S Protein RBD (194a.a, HEK293, C-His)

Cat. No.: HY-P7431A

2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein; S protein RBD; 2019-nCoV S protein RBD Synonyms:

Species: HEK293 Source:

Accession: QHD43416.1 (N331-V524)

Gene ID: 43740568

Molecular Weight: Approximately 31.9 kDa

PROPERTIES

AA Sequence	
78 Coquence	NITNLCPFGE VFNATRFASV YAWNRKRISN CVADYSVLYN
	SASFSTFKCY GVSPTKLNDL CFTNVYADSF VIRGDEVRQI
	APGQTGKIAD YNYKLPDDFT GCVIAWNSNN LDSKVGGNYN
	YLYRLFRKSN LKPFERDIST EIYQAGSTPC NGVEGFNCYF
	PLQSYGFQPT NGVGYQPYRV VVLSFELLHA PATVHHHHHH
District of Assistance	Mark and by the blad on the Planta of Edition Learning Bland Market CARC CAVOCA and a start (100 Lt/ all) and blad
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse SARS-CoV-2 S1, at 2 μg/mL (100 μL/well) can bind
	Biotinylated ACE2 protein. The ED ₅₀ for this effect is 40.46 ng/mL, corresponding to a specific activity is 2.47×10 ⁵ Unit/mg.
A	
Appearance	Lyophilized powder.
Formulation	Lucabilized from a 0.2 cm filtered calculate a sf 20 mM DD 150 mM NaCl all 7.4
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	of Elling determined by LAL method
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	this was to accompany deal to accompany to the table of a company to the second of the
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage O Stability	Stand at 20°C for 2 years After reconstitution it is stable at 4°C for 1 years or 20°C for langur (with corrier nystein) It is
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.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Shipping

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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