SARS-CoV-2 S Protein RBD (Omicron, B.1.1.529, His)

Cat. No.:	HY-P74447
Synonyms:	SARS-CoV-2 RBD Protein; SARS-CoV-2 Spike RBD Protein; SARS-CoV-2 S Protein RBD
Species:	Virus
Source:	HEK293
Accession:	YP_009724390.1 (R319-F541, with mutation G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)
Gene ID:	43740568
Molecular Weight:	Approximately 26.83 kDa

PROPERTIES

Biological Activity	Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The $_{50}$ for this effect is 1-8 ng/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	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	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). 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.

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