

SARS-COV-2 Spike RBD (Delta B.1.617.2) Protein

Cat. No. DB1-VM1BD

Description

Source	Recombinant SARS-COV-2 Spike RBD (Delta B.1.617.2) Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Arg319-Phe541(L452R, T478K).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 26.26 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

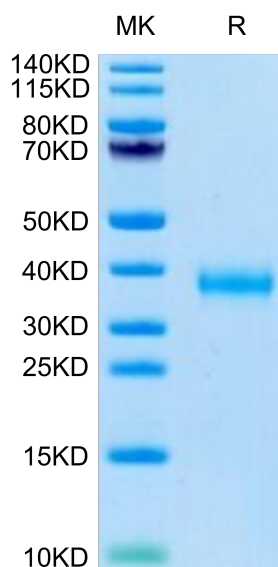
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The ongoing coronavirus disease 2019 (COVID-19) pandemic has prioritized the development of small-animal models for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The resulting mouse-adapted strain at passage 6 (called MASCP6) showed increased infectivity in mouse lung and led to interstitial pneumonia and inflammatory responses in both young and aged mice after intranasal inoculation. Deep sequencing revealed a panel of adaptive mutations potentially associated with the increased virulence. In particular, the N501Y mutation is located at the receptor binding domain (RBD) of the spike protein.

Assay Data

Bis-Tris PAGE



SARS-COV-2 Spike RBD (Delta B.1.617.2) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

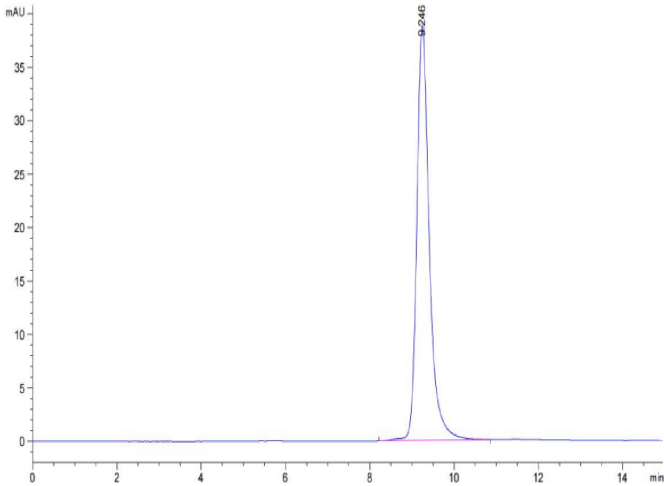
SEC-HPLC

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Assay Data

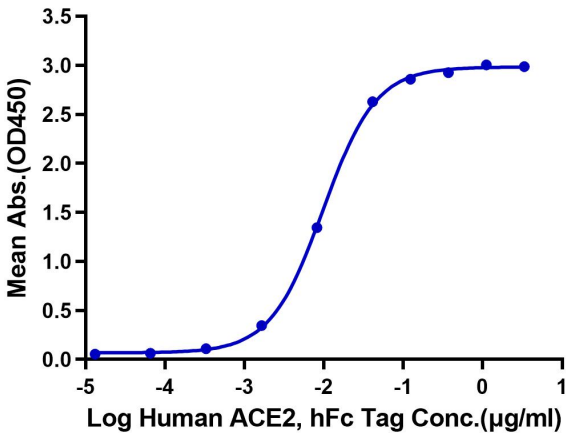


The purity of SARS-COV-2 Spike RBD (Delta B.1.617.2) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-CoV-2 Spike RBD (Delta B.1.617.2), His Tag ELISA

0.1µg SARS-CoV-2 Spike RBD (Delta B.1.617.2), His Tag Per Well



Immobilized SARS-CoV-2 Spike RBD (Delta B.1.617.2) , His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 9.8ng/ml determined by ELISA.