SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) Protein

Cat. No. GP1-VM1BD

Description

Source	Recombinant SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Arg319-Phe541(K417T, E484K, N501Y).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 26.21 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

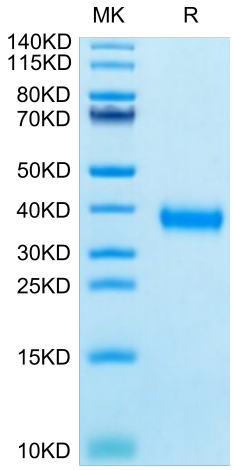
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Assay Data

Tris-Bis PAGE



SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) Protein

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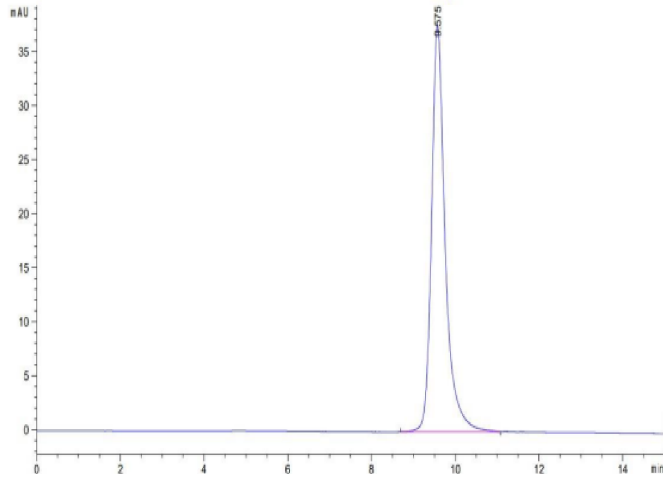
Assay Data

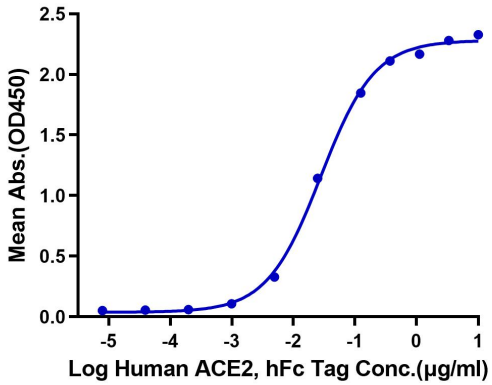


The purity of SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2), His Tag ELISA

0.05μg SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2)), His Tag Per Well



Immobilized SARS-CoV-2 Spike RBD (Gamma P.1/P.1.1/P.1.2) , His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 27.7ng/ml determined by ELISA.