SARS-COV-2 Spike RBD Protein

Cat. No. COV-VM3BD

Description

Source	Recombinant SARS-COV-2 Spike RBD Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus.
	It contains Arg319-Asn532.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 49.7 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

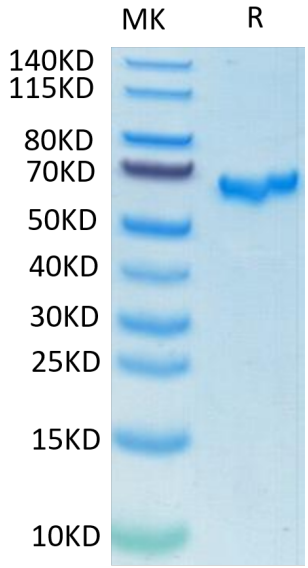
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-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 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

Bis-Tris PAGE



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

SEC-HPLC

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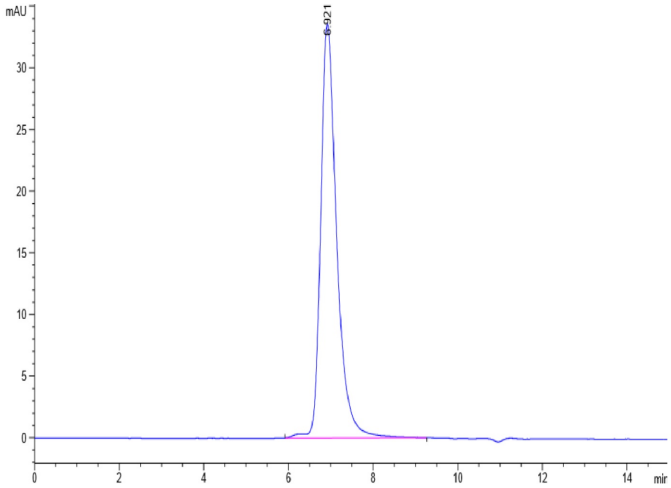
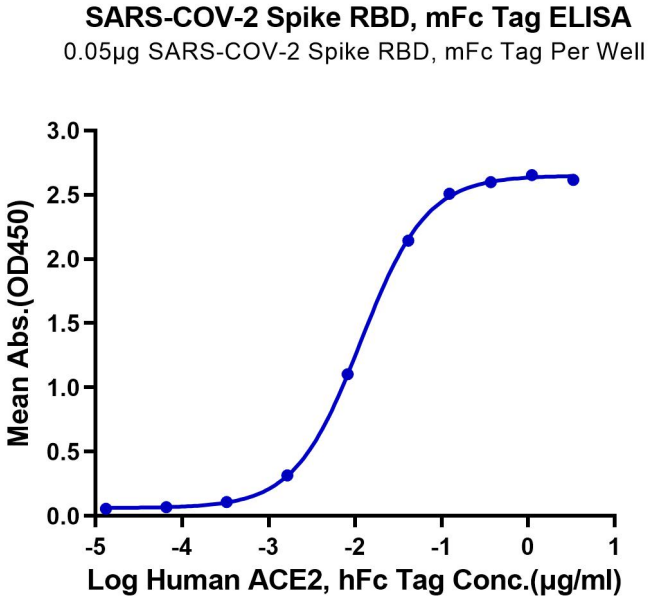
Assay Data



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

ELISA Data



Immobilized SARS-COV-2 Spike RBD at 0.5μg/ml (100μl/Well). Dose response curve for Human ACE2, hFc Tag with the EC50 of 11.6ng/ml determined by ELISA.