

SARS-COV-2 Spike RBD Protein

Cat. No. COV-VM2BD



Description

Source	Recombinant SARS-COV-2 Spike RBD Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Arg319-Phe541.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 50.7 kDa. Due to glycosylation, the protein migrates to 55-70 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 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%.

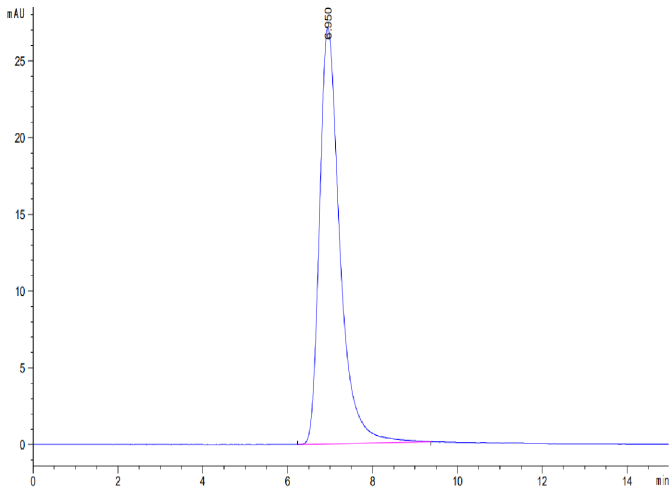
SEC-HPLC

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Assay Data

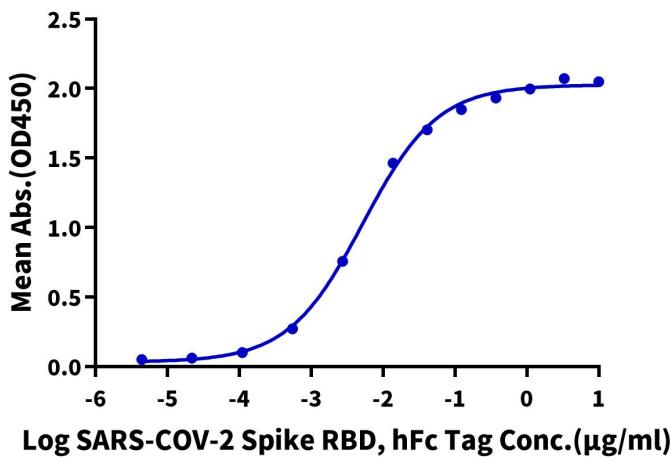


The purity of SARS-COV-2 Spike RBD is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike RBD, hFc Tag ELISA

0.2µg Cynomolgus ACE2, His Tag Per Well



Immobilized Cynomolgus ACE2, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 5.2ng/ml determined by ELISA.