Biotinylated SARS-COV-2 Spike RBD Protein

Cat. No. COV-VM5BDB

Description

Source	Recombinant Biotinylated SARS-COV-2 Spike RBD Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus.
	It contains Arg319-Asn532.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 51.7 kDa. Due to glycosylation, the protein migrates to 60-62 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

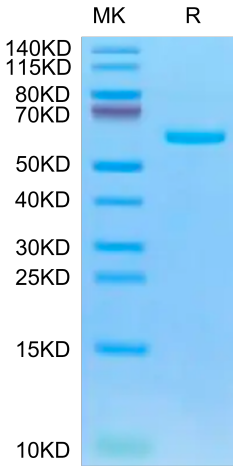
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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



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

SEC-HPLC

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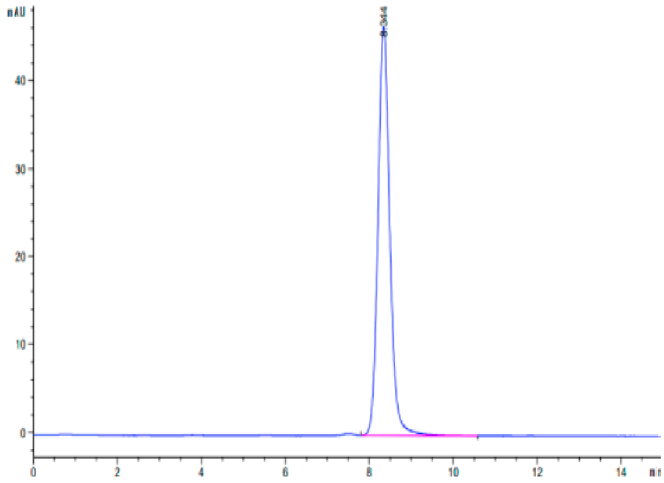
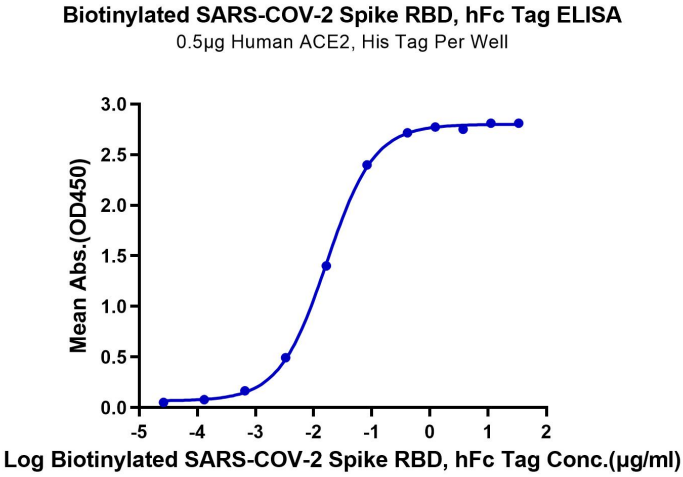
Assay Data



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

ELISA Data



Immobilized Human ACE2, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated SARS-COV-2 Spike RBD, hFc Tag with the EC50 of 16.7ng/ml determined by ELISA.