SARS Spike RBD Protein, Ultra Low Endotoxin

Cat. No. SAR-VM4BD-UL

Description

Source	Recombinant SARS Spike RBD Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Arg306-Phe527.
Accession	P59594
Molecular Weight	The protein has a predicted MW of 27.9 kDa. Due to glycosylation, the protein migrates to 36-46 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

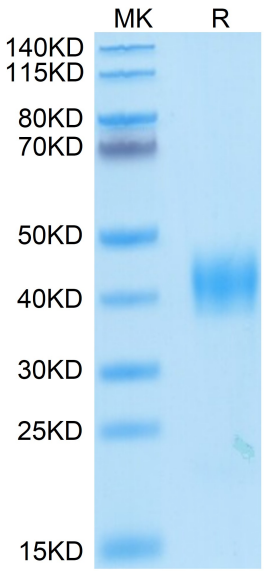
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 Spike RBD on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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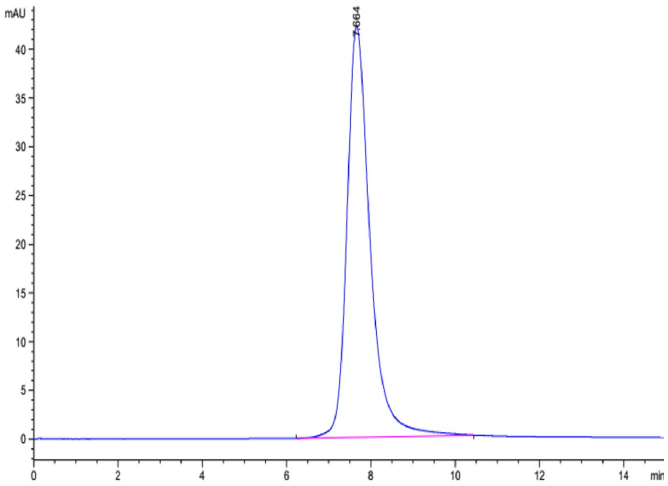
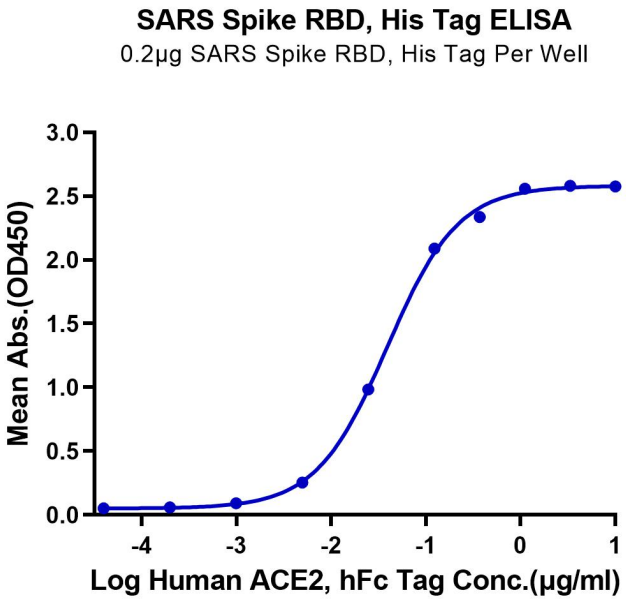


The purity of SARS Spike RBD is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized SARS Spike RBD, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 39.0ng/ml determined by ELISA.