

SARS Spike RBD Protein

HA210053



Product name:	SARS Spike RBD Protein
Species reactivity:	SARS
Protein construction description:	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]

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.

Purity: > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin: Less than 1EU per µg by the LAL method.

Source: HEK293

Accession: P59594

Predicted molecular mass: The protein has a predicted MW of 27.9 kDa. Due to glycosylation, the protein migrates to 36-46 kDa based on Tris-Bis PAGE result

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.

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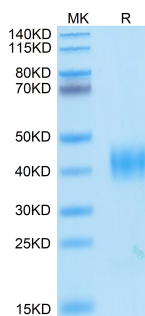


Fig1: SARS Spike RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

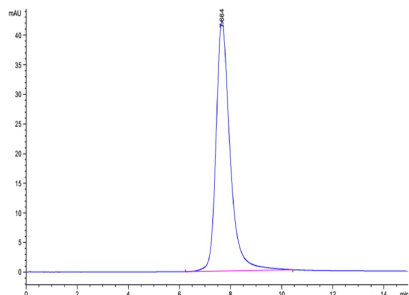


Fig2: The purity of SARS Spike RBD is greater than 95% as determined by SEC-HPLC.

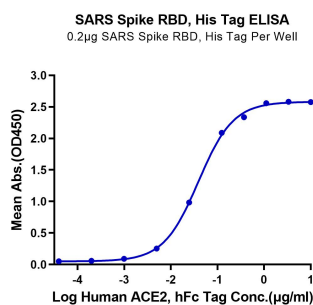


Fig3: Immobilized SARS Spike RBD, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 39.0ng/ml determined by ELISA.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.