

SARS-CoV-2 Spike RBD (Lambda C.37) Protein

Cat. No. LCD-VM1BD

Description

Source	Recombinant SARS-CoV-2 Spike RBD (Lambda C.37) Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg319-Phe541(L452Q, F490S).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 26.15 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

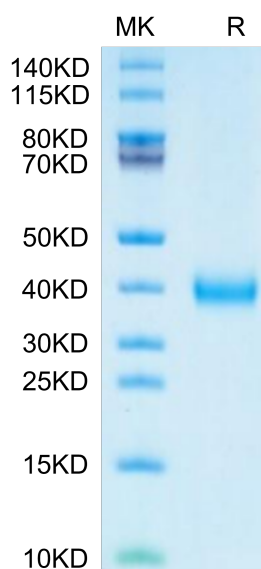
Formulation	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The ongoing coronavirus disease 2019 (COVID-19) pandemic has prioritized the development of small-animal models for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The resulting mouse-adapted strain at passage 6 (called MASCp6) showed increased infectivity in mouse lung and led to interstitial pneumonia and inflammatory responses in both young and aged mice after intranasal inoculation. Deep sequencing revealed a panel of adaptive mutations potentially associated with the increased virulence. In particular, the N501Y mutation is located at the receptor binding domain (RBD) of the spike protein.

Assay Data

Bis-Tris PAGE



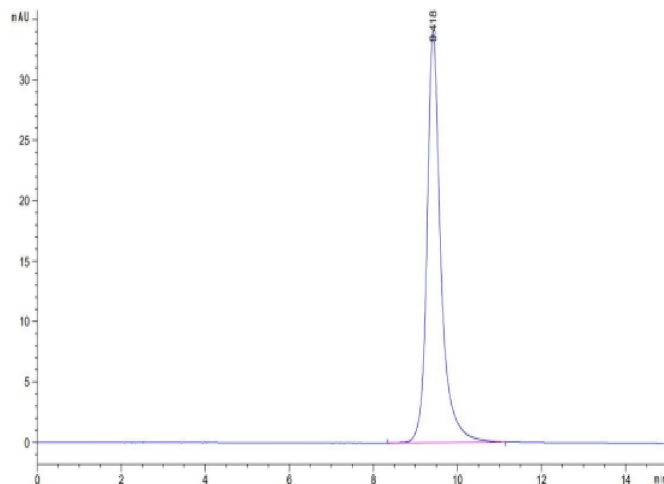
SARS-CoV-2 Spike RBD (Lambda C.37) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data

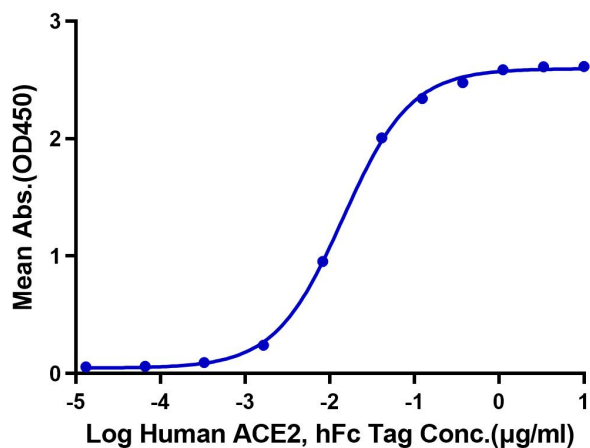


The purity of SARS-CoV-2 Spike RBD (Lambda C.37) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-CoV-2 Spike RBD (Lambda C.37), His Tag ELISA

0.05µg SARS-CoV-2 Spike RBD (Lambda C.37), His Tag Per Well



Immobilized SARS-CoV-2 Spike RBD (Lambda C.37) , His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.3ng/ml determined by ELISA.