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





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 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.

optimal storage. Please minimize freeze-thaw cycles.

Background

Storage

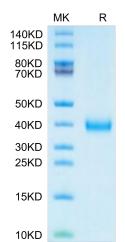
The ongoing coronavirus disease 2019 (COVID-19) pandemic has prioritized the development of small-animal models for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The resulting mouse-adapted strain at passage 6 (called MASCp6) showed increased infectivity in mouse lung and led to interstitial 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.

-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

Assay Data

Tris-Bis PAGE



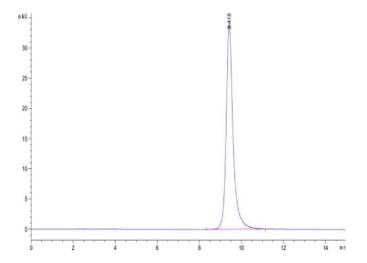
SARS-CoV-2 Spike RBD (Lambda C.37) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Cat. No. LCD-VM1BD

KAGTUS

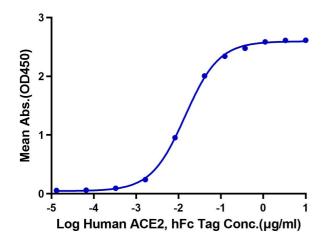
Assay Data



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 $0.5\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.3ng/ml determined by ELISA.