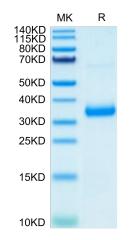
SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein

Cat. No. COV-VM1RM

Description	
Source	Recombinant SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Arg319-Phe541(N501Y,K417N,E484K).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 26.2 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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	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 receipt80°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

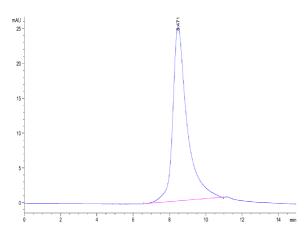
Bis-Tris PAGE



SARS-COV-2 Spike RBD (N501Y,K417N,E484K) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

KAGTUS

SEC-HPLC



The purity of SARS-COV-2 Spike RBD (N501Y,K417N,E484K) is greater than 95% as determined by SEC-HPLC.

SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein

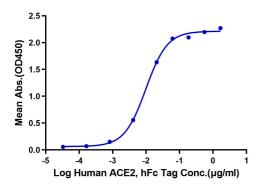
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Assay Data

ELISA Data

SARS-CoV-2 Spike RBD(N501Y,K417N,E484K), His Tag ELISA 0.05µg SARS-CoV-2 Spike RBD(N501Y,K417N,E484K), His Tag Per Well



Immobilized SARS-COV-2 Spike RBD (N501Y,K417N,E484K), His Tag at 0.5µg/ml (100ul/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 9.9ng/ml determined by ELISA.