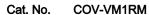
# SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein





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 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

Reconstitution

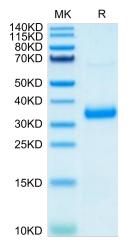
The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

-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**

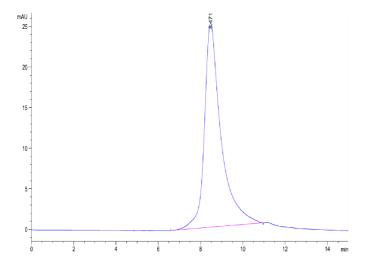


SARS-COV-2 Spike RBD (N501Y,K417N,E484K) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC** 



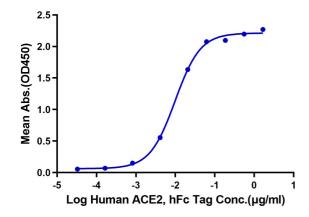
# **Assay Data**



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

### **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  $0.5\mu g/ml$  (100ul/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 9.9ng/ml determined by ELISA.