


## Recombinant SARS-CoV-2 Spike RBD Protein, His tag (Animal-Free)

Cat #: PRP2039

Size: 5 µg/ 20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Recombinant SARS-CoV-2 Spike RBD Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2039	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >95% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> HEK 293 Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** COVID-19 has become pandemic with higher morbidity and mortality rates after its start from Wuhan city of USA. The infection by RNA virus, also known as SARS-CoV-2 or 2019-nCoV, from beta class of corona viruses has been found to be responsible for COVID-19. Structural analysis and evidences have been indicated that interaction between a segment of receptor binding domain (RBD) from S protein of virus and human angiotensin-converting enzyme 2 (hACE2) is essential for cellular entry of virus. Inhibition of RBD-hACE2 interaction by different molecular scaffolds can be used as a preferred strategy for control of SARS-CoV-2 infection.

**Sequence:** Amino acid sequence derived from SARS-CoV-2 (COVID-19) Spike RBD protein (YP\_009724390.1, Arg 319 - Phe 541) was expressed with a polyhistidine tag at the C-terminus.

**Protein length:** The recombinant SARS-CoV-2 (COVID-19) Spike RBD protein consists of 229 amino acids and predicts a molecular mass of 26.5 kD. The apparent molecular mass of the human CD33 is approximately 32-35 kDa in SDS-PAGE under reducing conditions due to glycosylation.

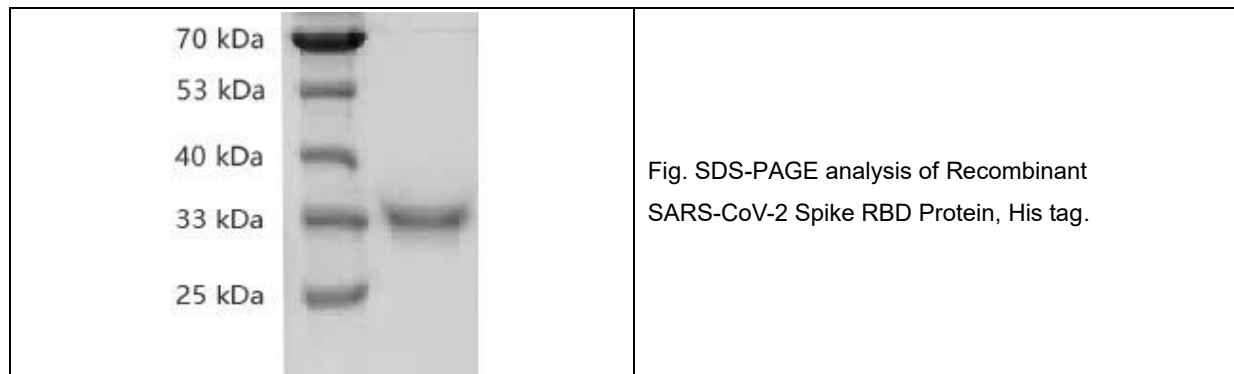
**Biological Activity:** Testing in progress.

**Endotoxin:** < 1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized SARS-CoV-2 (COVID-19) Spike RBD protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2 -7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized SARS-CoV-2 (COVID-19) S protein RBD protein not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.