## Recombinant SARS-CoV 2 Spike RBD\_E484K mFc-Chimera

Cat. No. Size	<b>Αb-Ρ0055</b> 100 μg	two subunits, S1 and S2. S1 mainly contains (RBD), which is responsible for recognizing the contains basic elements needed for the mem
Host Species	Human	In previous studies, a number of potent mor SARS coronavirus (SARS-CoV) have been ide target more specifically the 193 amino acid l binding domain (RBD) within the S protein is
Expression Host Protein construction	293F A DNA sequence encoding SARS-CoV-2	neutralizing antibodies. Some of the antibod epitopes on RBD, for example the SARS-CoV CR3014 and CR3022 bound noncompetitively
	(2019-nCoV) spike protein (RBD) (YP_009724390.1) (Ser325-Lys529) substituted E484K fused with the Fc region of mouse IgG2a in C-terminus.	neutralized the virus in a synergistic fashion. <b>Reference</b> 1) Xialong Tian et al. (2020) Emerging Micoro
Purity	>95% as determined by SDS-PAGE	2) Meng Yuan et al. (2020) Science. 368:630
Formulation	0.22µm filtered solution in PBS pH7.4	
Storage	Store it under sterile condition at -70°C upon receiving. Recommend to aliquot the protein in to smaller quantities for storage. Avoid repeated freeze –thaw cycles.	
Molecular Mass	The recombinant SARS-CoV-2 (2019- nCoV) Spike Protein (RBD, mFc fusion) consists of 443 amino acids and predicts a molecular mass of 49.8 kDa.	

## Background

The Spike protein (S) of and SL-CoVs, which is a type I transmembrane glycoprotein and mediates the entrance to human respiratory epithelial cells by interacting with cell surface receptor such as angiotensinconverting enzyme 2 (ACE2) The Spike protein is a large type I transmembrane protein containing

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s a receptor binding domain the cell surface receptor. S2 mbrane fusion.

noclonal antibodies against lentified. These antibodies length (N318-V510) receptor is the critical target for dies recognize different V neutralizing antibodies ely to the SARS-CoV RBD and ٦.

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