


Rev03  
Update: Dec,14,2021

**DATASHEET**

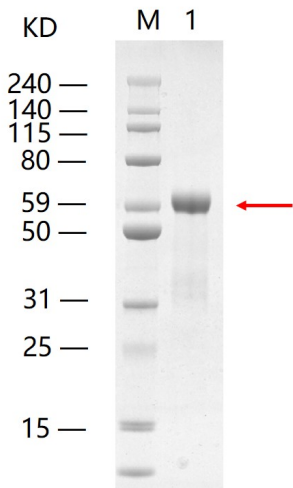
# SARS-CoV-2 Spike protein (RBD, mFc Tag, CHO-expressed)

Cat. No.: Z03513

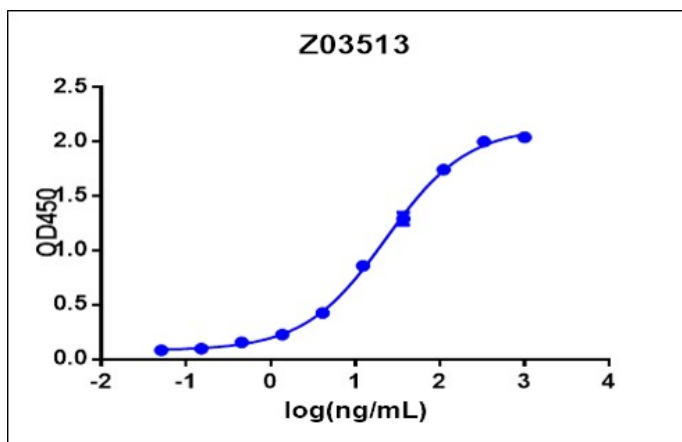
## Product Introduction

<b>Species</b>	SARS-CoV-2
<b>Protein Construction</b>	
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	SARS-CoV-2 Spike protein (RBD, mFc Tag, CHO-expressed) can bind with Human ACE2 (Cat. No.: Z03484) in functional ELISA assay.
<b>Expression System</b>	CHO
<b>Theoretical Molecular Weight</b>	50 kDa
<b>Formulation</b>	Supplied as a solution in PBS pH 7.4
<b>Concentration</b>	Please refer to the COA for the specific lot.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -20°C or below. Avoid repeated freeze-thaw cycles.

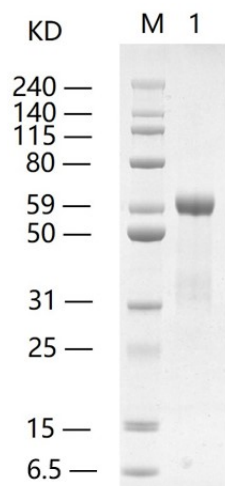
## Examples



1: 1  $\mu\text{g}$  of Z03513, reducing (R)  
 > 95 % as determined by SDS-PAGE



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2  $\mu\text{g}/\text{mL}$  can bind SARS-CoV-2 Spike protein (RBD, mFc Tag, CHO-expressed) (Cat. No. Z03513) with a serial dilution. Goat anti Mouse IgG Fc [HRP], pAb is used as a secondary antibody (0.1  $\mu\text{g}/\text{mL}$ ).



Lane 1: 1  $\mu\text{g}$  of SARS-CoV-2 Spike protein (RBD, mFc Tag, CHO-expressed), reducing(R)  
 > 95% as analyzed by SDS-PAGE

## Background

**Target Background :** SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. SARS-CoV-2 Spike Protein is composed of S1 domain and S2 domain. S1 contains a receptor-binding domain (RBD) that can specifically bind to angiotensin-converting enzyme 2 (ACE2), the receptor on target cells. It is believed that SARS-CoV-2 Spike Protein (RBD) has potential value for the diagnosis of the virus.

**Synonyms :** SARS-CoV-2 SP RBD; 2019-nCoV SP RBD

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**