


Rev03
Update: Dec,14,2021

DATASHEET

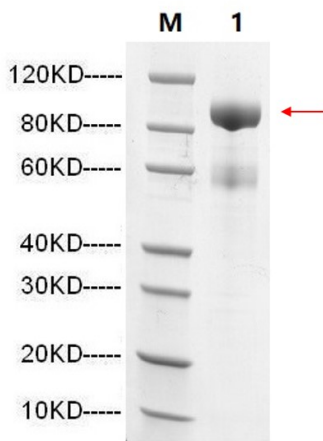
SARS-CoV-2 Nucleocapsid S-RBD Fusion (His Tag)

Cat. No.: Z03505

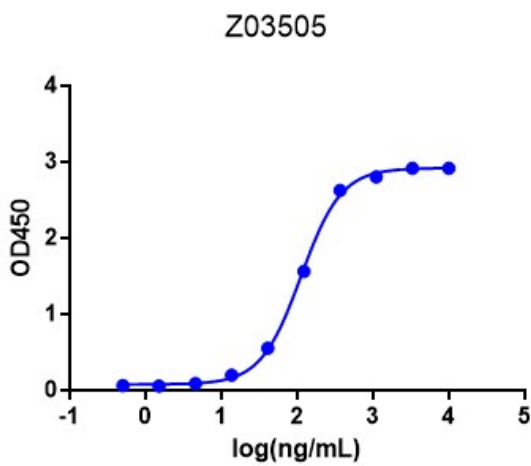
Product Introduction

Species	SARS-CoV-2
Protein Construction	Full length of nucleocapsid protein and spike protein RBD region. 
Purity	> 75% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	SARS-CoV-2 Nucleocapsid S-RBD Fusion (His tag) can bind to both human ACE2 (Cat. No.: Z03484) and nucleocapsid antibody (Cat. No.: A02039) in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	74.9 kDa
Formulation	Supplied as a solution in PBS pH 7.4 containing 10% glycerol.
Concentration	Please refer to the COA for the specific lot.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -20°C or below. Avoid repeated freeze-thaw cycles.

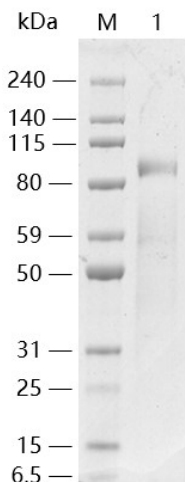
Examples



1: 3 μ g of SARS-Cov-2 Nucleocapsid S-RBD Fusion, reducing(R)
>75% as determined by SDS-PAGE



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μ g/mL can bind SARS-CoV-2 Nucleocapsid S-RBD Fusion (His Tag) (Cat. No. Z03505) with a serial dilution. THE™ His Tag Antibody [HRP], mAb, Mouse(Cat.No.A00612) is used as a secondary antibody (0.1 μ g/mL).



Lane 1: 1 μ g of SARS-CoV-2 Nucleocapsid S-RBD Fusion (His Tag), 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 Nucleocapsid Protein is associated with nucleic acid. It is the most abundant protein for coronavirus. Because of the strong immunogenicity of coronavirus Nucleocapsid, it is believed that SARS-CoV-2 Nucleocapsid Protein has potential value for the diagnosis of the virus. 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. SARS-CoV-2 Spike Protein (RBD) also has the potential value for the diagnosis of the virus.

Synonyms : N+RBD; SARS-CoV-2 S-RBD+N protein; 2019-nCoV S-RBD+N protein; SARS-CoV-2 NP S-RBD fusion

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