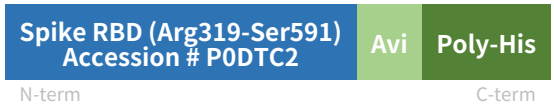
Rev05
Update: Sep,30,2022

DATASHEET

SARS-CoV-2 Spike protein (RBD, E484K, K417N, N501Y, His & Avi Tag)

Cat. No.: Z03537

Product Introduction

Species	SARS-CoV-2
Protein Construction	Expressed with the mutations of E484K, K417N, N501Y. 
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	SARS-CoV-2 Spike protein (RBD, E484K, K417N, N501Y, His & Avi Tag) can bind with human ACE2 (Cat. No.: Z03484) in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	30 kDa
Formulation	Supplied as a solution in PBS, pH 7.4.
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

GenScript USA, Inc.
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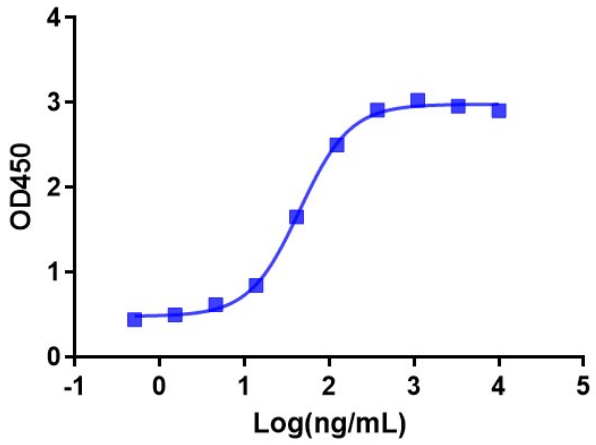
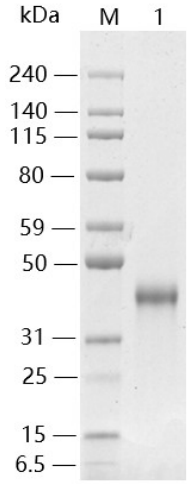
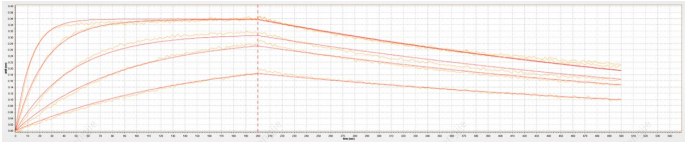
Tel: 1-732-885-9188



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μg/mL can bind SARS-CoV-2 Spike protein (RBD, E484K, K417N, N501Y, His & Avi Tag) (Cat. No. Z03537) with a serial dilution. THE™ His Tag Antibody [HRP], mAb, Mouse (Cat.No.A00612) is used as a secondary antibody (0.2 μg/mL).



Lane 1: 1μg of SARS-CoV-2 Spike protein (RBD, E484K, K417N, N501Y, His & Avi Tag), reducing(R)
> 95% as analyzed by SDS-PAGE



Loaded ACE-2 Fc Chimera, Human (CHO-expressed) Protein (Cat. No. Z03516) on Protein A Biosensor, can bind SARS-CoV-2 Spike protein (RBD, N501Y, His & Avi Tag) (Cat. No. Z03537) with an affinity constant of 4.44 nM as determined in BLI assay.

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 : Lineage B.1.351; Beta variant; 20H/501Y.V2

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

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