

Rev03
 Update: Dec,14,2021

DATASHEET

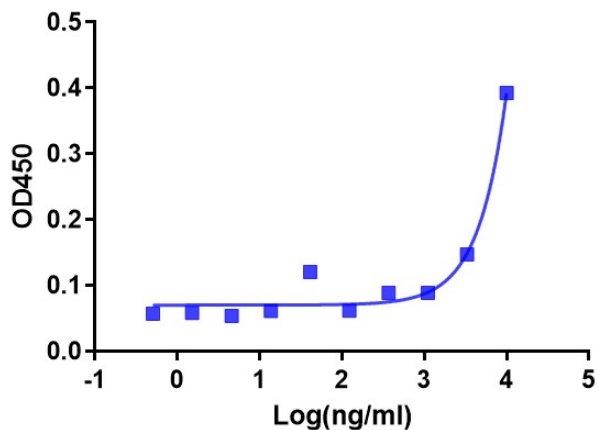
SARS-CoV-2 Spike protein (S1, A570D, His Tag)

Cat. No.: Z03521

Product Introduction

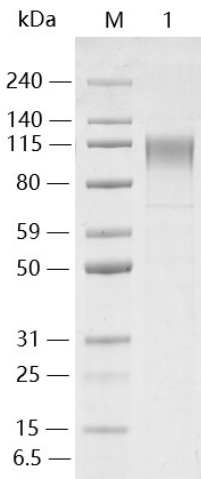
Species	SARS-CoV-2
Protein Construction	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> S1 protein [Gln14-Arg685 (A570D)] Accession # P0DTC2 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> Poly-His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
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 (S1, A570D, His Tag) can bind with human ACE2 (Cat. No.: Z03484) in functional ELISA assay.
Expression System	293 Cells
Theoretical Molecular Weight	79 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



Immobilized ACE-2 Fc Chimera, Human (Cat. No. Z03484) at 2 μg/mL can bind SARS-CoV-2 Spike protein (S1, A570D, His Tag) (Cat. No. Z03521) 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: 1 μ g of SARS-CoV-2 Spike protein (S1, A570D, 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 Spike Protein is composed of S1 domain and S2 domain. The variant called Variant of Concern 202012/01, abbreviated VOC-202012/01) belonging to the lineage B.1.1.7 was first sequenced in the United Kingdom. It has some strange multiple mutations in the spike protein, namely, N501Y and A570D in the receptor-binding domain (RBD) and the N terminal domain, respectively.

Synonyms : SARS-CoV-2 S1 protein, A570D; 20I/501Y.V1; B.1.1.7; Alpha variant

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