## **PRODUCT INFORMATION**

S protein RBD **Target** 

S protein RBD; Spike glycoprotein Receptor-**Synonyms** binding domain; S glycoprotein RBD; Spike protein

RBD;COVID-19

Recombinant SARS-CoV-2 (2019-nCoV) S protein **Description** 

RBD with C-terminal 6×His tag

Delivery In Stock **Uniprot ID** P0DTC2 **HEK293 Expression Host** 

Tag C-6×His Tag

Molecular Characterization

S protein RBD(Arg319-Phe541) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight** 37-38 kDa after removal of the signal peptide.

> The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Formulation & Reconstitution

Storage & Shipping

**Purity** 

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses

ranging from the common cold to severe diseases. The spike protein is a type I

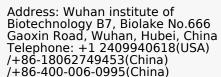
transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding **Background** domain (RBD), which accounts for recognizing the

cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell

response.

Usage Research use only

Conjugate Unconjugated



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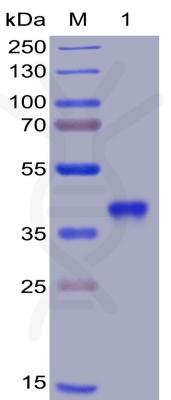


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, His Tag on SDS-PAGE under reducing condition.

## S-RBD, His Tagged protein ELISA

0.2 µg S-RBD, His Tagged protein per well

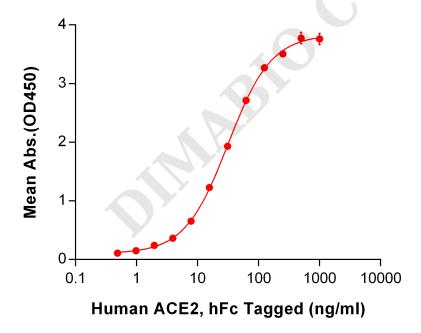


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) SARS-CoV-2 (2019-nCoV) S protein RBD, His tagged protein (PME100036) can bind its native ligand Human ACE2, hFc tagged protein PME100073 in a linear range of 1.96-31.72 ng/ml.

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