Recombinant SARS-CoV-2 (SARS-CoV-2) S protein RBD (C-mFc-6His tag)

Catalog Number: PKSV030276

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

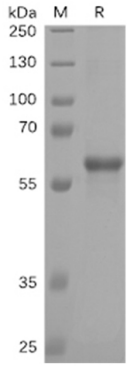
Description

Species	SARS-CoV-2
Source	HEK293 Cells-derived SARS-CoV-2 Spike protein Arg319-Phe541, with an C-terminal mFc & His
Calculated MW	52.2 kDa
Accession	QHD43416.1
Bio-activity	ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human S-RBD, mFc-His tagged protein (PKSV030276) can bind Anti-SARS-CoV-2 Neutralizing antibody(E-AB-V1028) in a linear range of 0.24-15.62 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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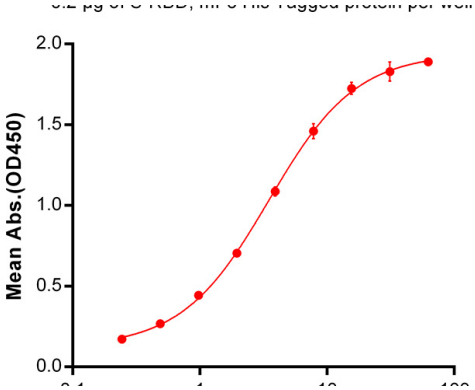

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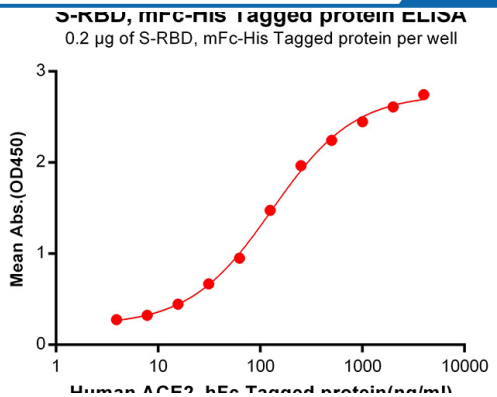

ELISA plate pre-coated by 2 μg/ml (100 μl/well) S-RBD, mFc-His tagged protein (PKSV030276) can bind Human ACE2, hFc Tagged protein(PKSR030492) in a linear range of 0.488-49.83 ng/ml.

Background

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 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.