

# Recombinant SARS-CoV-2 Spike Protein (RBD, mFc Tag)

RPES0042

## Description

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This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

## Protein Information

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**SKU:** RPES0042

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Contents:** 100µg  
Bradford Reagent: 1 vial (2ml)

**Concentration:** -

**Species:** SARS-CoV-2

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Synonyms:** 2019-nCoV S glycoprotein, 2019-nCoV Spike glycoprotein, 2019-nCoV S protein

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.  
Store Bradford Reagent at Room Temperature for 1 year.

**Tag:** C-mFc

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Expression Host:** HEK293 Cells

**Bio-Activity:** Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2µg/mL (100µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag)(RPES0042), the EC50 of SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag) is 10-30 ng/mL.

**Calculated MW:** 51.5 kDa

**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.

**Manufacturers Statement:** This final kit system is assembled and quality-released by Assay Genie Limited.

**Observed MW:** -

**Reconstitution:** Please refer to the printed manual for detailed information. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2µg/mL (100µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag)(RPES0042), the EC50 of SARS- CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag) is 10-30 ng/mL. Loaded Human ACE2 Protein (His tag) (RPES0050) on SA Biosensor, can bind SARS-CoV-2/2019-nCoV Spike/RBD Protein (RBD, mFc Tag) (RPES0042) with an affinity constant of 0.562 nM as determined by Octet RED System.

**Accession:** YP\_009724390.1

**Source:** HEK293 Cells-derived SARS-CoV-2 SARS-CoV-2 Spike(RBD) protein Arg319-Phe541, with an C-terminal mFc

**Sequence:** Arg319-Phe541

**Form:** Lyophilized powder

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

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

