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# Recombinant MERS-CoV Spike RBD Protein

**Catalog No.: RP01305** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| MERS-CoV | 14254594 | K9N5Q8 |

**Tags**
C-mFc

**Synonyms**
MERS-CoV Spike RBD

## Product Information

| Source | Purification |
|---|---|
| HEK293 cells | > 90% by SDS-PAGE. |

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

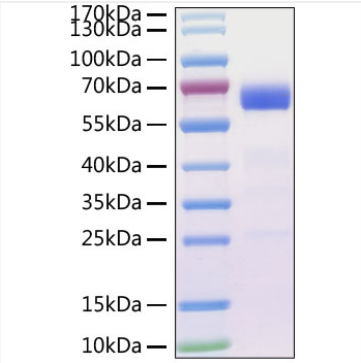
## Basic Information

**Description**
Recombinant MERS-CoV Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu367-Tyr606) of mers-cov Spike RBD (Accession #YP_009047204.1) fused with a K9N5Q8.

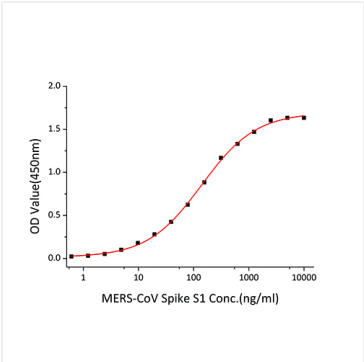
**Bio-Activity**
Measured by its binding ability in a functional ELISA. Immobilized Human CD26 (Catalog: RP01300LQ) at 2μg/mL (100μL/well) can bind MERS-CoV Spike RBD with a linear range of 0.5-139.82ng/mL.

**Storage**
Store the lyophilized protein at -20°C to -80°C for long term.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

## Validation Data




Recombinant MERS-CoV Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-65 kDa.

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