

# MERS-CoV CoV Spike glycoprotein (aa 1-725, His Tag)



Catalog Number: 504266

## General Information

### Protein Construction

A DNA sequence encoding the spike protein S1 (Human betacoronavirus 2c EMC/2012)(AFS88936.1)(Met1-Glu725) was fused with a polyhistidine tag at the C-terminus.

### Organism

MERS-CoV

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725)(Cat: 504266) at 10 µg/ml (100 µl/well) can bind biotinylated human DPP4 (Cat: 502818).

The EC<sub>50</sub> of biotinylated DPP4 (Cat: 502818) is 0.6-1.39 µg/ml.

2. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725) (Cat: 504266) at 10 µg/ml (100 µl/well) can bind biotinylated Fc-DPP4 (Cat: 504194). The EC<sub>50</sub> of biotinylated Fc-DPP4 (Cat: 504194) is 0.02-0.05 µg/ml.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Tyr 18

### Molecular Mass

The recombinant spike protein S1 (Human betacoronavirus 2c EMC/2012) comprises 719 amino acids and has a predicted molecular mass of 79.9 kDa. It migrates as an approximately 94 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

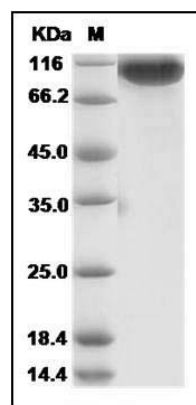
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Novel coronavirus (HCoV-EMC/2012) Spike Protein S1 (aa 1-725, His Tag) SDS-PAGE