HCoV CoV Spike glycoprotein (aa 1-760, His Tag)

Catalog Number: 500181

General Information

Gene Name Synonym

E2; Peplomer protein; Spike protein S1; Spike protein S2

Protein Construction

A DNA sequence encoding the N-terminal fragment of human coronavirus (isolate HKU1) spike glycoprotein (YP_173238.1) (Met 1-Arg 760), corresponding to the S1 region, was fused with a polyhistidine tag at the C-terminus.

Organism

HCoV

Expression Host

Human Cells

QC Testing

Activity

Measured by its binding ability in a functional ELISA.
Immobilized Spike-His (aa 1-760) (Cat: 500181) at 10 μg/ml (100 μl/well) can bind biotinylated human ACE2-Fc (Cat: 501568) with a linear range of 0.16-4.0 μg/ml.

Purity

> 90 % 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℃

Predicted N terminal

Gly 16

Molecular Mass

The secreted recombinant human coronavirus spike glycoprotein (aa 1-760) comprises 756 amino acids with a predicted molecular mass of 85.8 kDa. As a result of high glycosylation, the apparent molecular mass of the recombinant protein is approximately 130-140 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

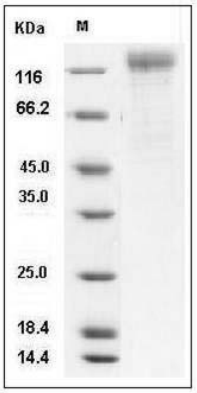
Storage

Store it under sterile conditions at -20℃ to -80℃. 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



Human coronavirus spike glycoprotein Protein (aa

1-760, His Tag) SDS-PAGE