Recombinant MERS-CoV Spike S1 Protein

Catalog No.: RP01303

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Sequence Information

Species
MERS-CoV

Gene ID
14254594

Swiss Prot
K9N5Q8

Tags
C-mFc

Synonyms
MERS-CoV Spike RBD

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
104.08 kDa

Observed MW
130-150 kDa

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 vortex 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.

Background

The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.

Basic Information

Description
Recombinant MERS-CoV Spike S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr18-Glu725) of mers-cov Spike S1 (Accession #YP_009047204.1) fused with a mFc tag at the C-terminus.

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 S1 with a linear range of 0.5-420.21ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

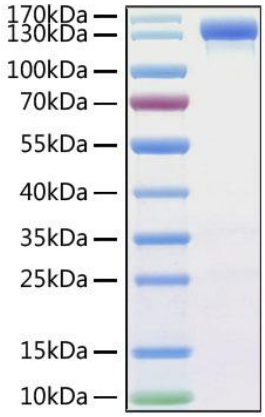
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

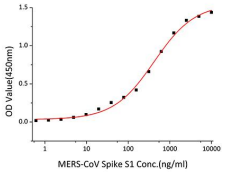
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Validation Data



Recombinant MERS-CoV Spike S1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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