

Recombinant MERS-CoV Spike S1 Protein

Catalog No.: RP01303 **Recombinant** **2 Publications**

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	> 95% by SDS-PAGE.

Calculated MW	Observed MW
104.08 kDa	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 stabilizer (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

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.

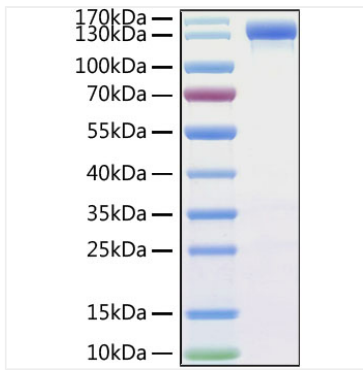
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD26 (Catalog: RP01300LQ) at 2μg/mL (100μL/well) can bind MERS-CoV Spike S1 with a linear range of 0.5-420.21ng/mL.

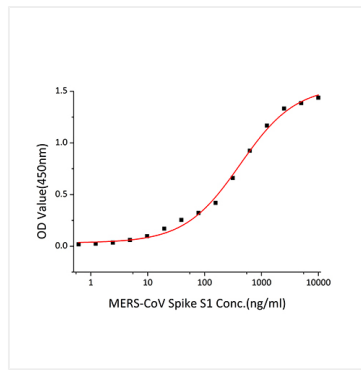
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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 S1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 120-150 kDa.



Immobilized Human CD26 (Catalog: RP01300LQ) at 2 μ g/mL (100 μ L/well) can bind MERS-CoV Spike S1 with a linear range of 0.5-420.21ng/mL.