

Recombinant MERS-CoV Spike/S1 protein(Met1-Glu725), His-tagged

Cat. No. Spike-1228V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant spike protein S1 Subunit MERS-CoV (AFS88936.1)(Met1-Glu725) was expressed in Insect Cells, fused with a polyhistidine tag at the C-terminus.
Species	MERS-CoV
Source	Insect Cells
ProteinLength	Met1-Glu725
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725) at 10 µg/ml (100 µl/well) can bind biotinylated human DPP4. The EC50 of of biotinylated DPP4 is 0.52-1.22 µg/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725) at 10 µg/ml (100 µl/well) can bind biotinylated Fc-DPP4. The EC50 of biotinylated Fc-DPP4 is 0.02-0.06 µg/ml.
Molecular Mass	The recombinant spike protein S1 Subunit MERS-CoV 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.
Endotoxin	< 1.0 EU per

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	µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. 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	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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