

# MERS-CoV Spike S2 Protein

11/20

<b>CATALOG NO:</b>	P1624-10 10 µg P1624-50 50 µg
<b>ALTERNATE NAMES:</b>	Middle East respiratory syndrome coronavirus; Human betacoronavirus 2c EMC/2012; Middle East respiratory syndrome-related coronavirus; S glycoprotein; EMC/2012; E2; Peplomer protein; Spike protein S2
<b>MOL. WT.</b>	60.7 kDa
<b>ACCESSION NO:</b>	K0BRG7, AFS88936
<b>PURITY:</b>	≥ 85% by SDS-PAGE
<b>SOURCE:</b>	Baculovirus
<b>ENDOTOXIN:</b>	< 1 EU/µg of protein as determined by LAL method
<b>TAG:</b>	HisTag
<b>AMINO ACID SEQUENCE:</b>	The target protein is expressed with the sequence (aa 752-1296) of MERS-CoV spike protein S2 fused to His-tag at the C-terminus.
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
<b>STORAGE CONDITIONS:</b>	Divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.
<b>DESCRIPTION:</b>	MERS-CoV is a coronavirus which causes the Middle East Respiratory Syndrome (MERS). MERS-CoV has four structural proteins, known as the S (spike), E (envelope), M (membrane), and N (nucleocapsid) proteins. The spike protein is responsible for allowing the virus to attach and fuse with the membrane of a host cell. Spike glycoprotein is cleaved into three chains: S1, S2' and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for membrane fusion. MERS-CoV S mediates viral attachment and fusion to human cells via human cellular receptor DPP4, also known as CD26. The S protein plays an important role in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

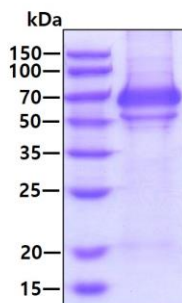


Fig A. 3 µg of MERS-CoV Spike S2 protein was loaded on SDS-PAGE under reducing conditions and visualized by Coomassie blue stain.

## RELATED PRODUCTS:

Recombinant Coronavirus Spike Protein (SARS-CoV S1; 408-470, 540-573) (Cat. No. P1518)  
 Recombinant Coronavirus Spike Protein (SARS-CoV S1; 12-53, 90-115, 171-203) (Cat. No. P1515)  
 Recombinant Coronavirus Spike Protein (MERS-CoV S1; 56-295) (Cat. No. P1514)  
 Recombinant Coronavirus Spike Protein (SARS-CoV S1; 408-470, 540-573, His Tag) (Cat. No. P1517)  
 Recombinant Coronavirus Spike Protein (SARS-CoV S1; His tag) (Cat. No. P1516)

**FOR RESEARCH USE ONLY! Not to be used on humans.**