MERS-CoV Spike RBD Protein

11/20

CATALOG NO: P1625-10 10 µg
P1625-50 50 µg

ALTERNATE NAMES: Middle East respiratory syndrome coronavirus; Human betacoronavirus 2c EMC/2012; Middle East respiratory syndrome-related coronavirus; RBD spike protein; S1 protein; RBD; EMC/2012; E2; Peplomer protein; receptor binding domain

MOL. WT. 28.2 kDa

ACCESSION NO: K0BRG7, AFS88936

PURITY: ≥ 90% by SDS-PAGE

SOURCE: Baculovirus

ENDOTOXIN: < 1 EU/µg of the protein as determined by LAL method

TAG: His Tag

AMINO ACID SEQUENCE The target protein is expressed with the sequence (aa 358-606) of MERS-CoV Spike RBD fused to His-tag at the C-terminus.

FORM: Liquid

FORMULATION: In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

STORAGE CONDITIONS: Divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: MERS-CoV is a coronavirus which causes the Middles 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.

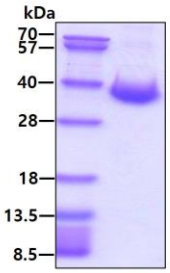

Fig A. 3 µg of MERS-CoV Spike RBD protein was loaded on SDS-PAGE under reducing conditions and visualized by Coomassie blue stain.

RELATED PRODUCTS:

MERS-CoV Spike S2 protein (Cat. No. P1624)
Human CellExp™ SARS-CoV-2 Spike Protein (RBD 310-568), Recombinant (Cat. No. P1543)
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.