

Active Recombinant MERS-CoV (NCoV / Novel coronavirus) S Protein, His-tagged

Cat. No. S-598V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain of spike protein (Human betacoronavirus 2c EMC/2012)(AFS88936.1) (Met1-Trp1297) was fused with a polyhistidine tag at the C-terminus.
Species	MERS-CoV
Source	Insect Cells
ProteinLength	1-1297 a.a.
Predicted N Terminal	Tyr 18
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its binding ability in a functional ELISA. 1. Immobilized Spike (HCoV-EMC/2012) (ECD, aa 1-1297) at 10 µg/ml (100 µl/well) can bind biotinylated human ACE2-Fc. The EC50 of biotinylated human ACE2-Fc is 0.9-1.4 µg/ml. 2. Immobilized Spike (HCoV
Molecular Mass	The recombinant extracellular domain of spike protein (Human betacoronavirus 2c EMC/2012) comprises 1289 amino acids and has a predicted molecular mass of 142.2 kDa. It migrates as an approximately 157 kDa band in SDS-PAGE under reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>85 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°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 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	S S protein [Middle East respiratory syndrome coronavirus]
Official Symbol	S
Synonyms	spike glycoprotein; S protein
Gene ID	14254594
mRNA Refseq	
Protein Refseq	
MIM	
UniProt ID	

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