Data Sheet (Cat.No.TMPK-00946)

TargetMol

EFEMP1 Protein, Human, Recombinant (His)

General Information

Synonyms:	MLVT;S1-5;Fibulin 3;FBNL;fibrillin-like;MGC111353;FBLN3;FBNLFLJ35535;MTLV;DHRD; EFEMP1;FIBL-3
Protein Construction:	Gln18-Phe493
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12805-1
Molecular Weight:	53.9 kDa (predicted). Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human EFEMP1, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Anti-EFEMP1 Antibody, hFc Tag with the EC50 of 13.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Transversalis fascia EFEMP1, TIMP3 and ELN expressions were decreased, but MMP9 expression was increased in IH patients compared with controls. In IH patients, EFEMP1 was not correlated with TIMP3, but positively correlated with ELN and negatively correlated with MMP9; TIMP3 negatively correlated with MMP9, but positively correlated with ELN.In addition, EFEMP1 suppressed L929 cell migration and invasion.

Reference

Peng X, et al. EFEMP1 in Direct Inguinal Hernia: correlation with TIMP3 and Regulation Toward Elastin Homoeostasis as Well as Fibroblast Mobility. J Invest Surg. 2020 Nov 1:1-9. doi: 10.1080/08941939.2020.1811812. Epub ahead of print. Erratum in: J Invest Surg. 2020 Sep 22;:1-2. PMID: 33131351.

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