

**Catalog No.:** RP01490   **Recombinant**   **1 Publications**

Species	Gene ID	Swiss Prot
Mouse	17304	P21956-1

## C-His

P47;MP47;Mfgm;SED1;MFG-  
E8;AA408458;AI325141;lactadherin;MFG  
E8

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
49.84 kDa	60-65 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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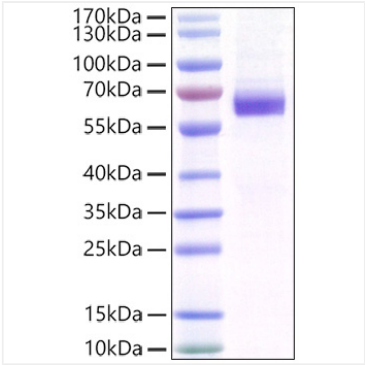
MFG-E8, also known as lactadherin and MFGE8, contains 1 EGF-like domain and 2 F5/8 type C domains. It also contains phosphatidylserine (PS) binding domain, as well as an Arginine-Glycine-Aspartic acid motif, which enables the binding to integrins. It binds PS, which is exposed on the surface of apoptotic cells. MFG-E8 is expressed in mammary epithelial cell surfaces and aortic media. Overexpression of MFG-E8 can be found in several carcinomas. MFG-E8 has opsonization of the apoptotic cells and binding to integrins on the surface of phagocytic cells. It also mediates the engulfment of the dead cell. MFG-E8 plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. It promotes VEGF-dependent neovascularization and contributes to the phagocytic removal of apoptotic cells in many tissues. It also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner.

Recombinant Mouse MFG-E8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala23-Cys463) of mouse MFG-E8/BA46 (Accession #NM\_008594.2) fused with a 6×His tag at the C-terminus.

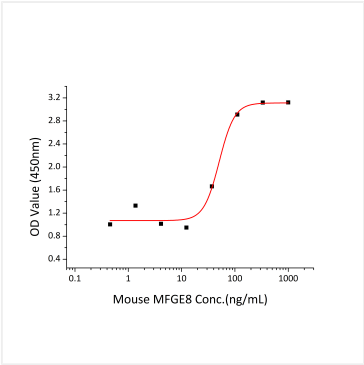
Measured by the ability of the immobilized protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. The ED<sub>50</sub> for this effect is 25.33-101.30 ng/mL, corresponding to a specific activity of  $9.87 \times 10^3 \sim 3.95 \times 10^4$

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse MFG-E8 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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