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Recombinant Mouse MFG-E8 Protein

Catalog No.: RP01490 Recombinant 1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	17304	P21956-1

Tags
C-His

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

Background

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.

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
49.84 kDa	60-65 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Basic Information

Description
Recombinant Mouse MFG-E8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala23-Cys463) of mouse MFGE8/BA46 (Accession #NM_008594.2) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by the ability of the immobilized protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. The ED_{50} for this effect is 25.33-101.30 ng/mL, corresponding to a specific activity of 9.87×10^{3} ~3.95×10^{4}

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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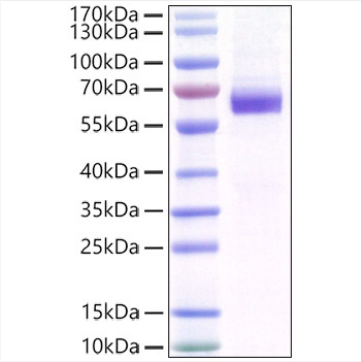
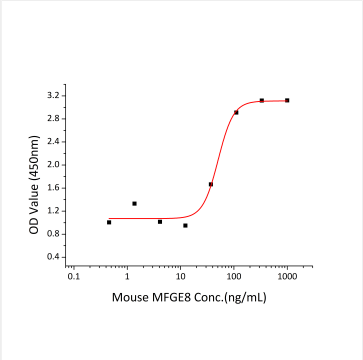
Validation Data



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



immobilized protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. The ED_{50} for this effect is 25.33-101.30 ng/mL, corresponding to a specific activity of 9.87×10^{3} ~3.95×10^{4} units/mg.