Recombinant Human MFG-E8/lactadherin/MFGE8 Protein (His Tag)

Catalog No. PKSH031387

Note: Centrifuge before opening to ensure complete recovery of vial contents.

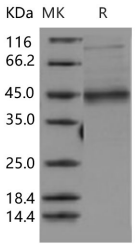
Description

Synonyms	BA46;EDIL1;HMFG;hP47;HsT19888;MFG-E8;MFGM;OAcGD3S;SED1;SPAG10
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Cys 387
Accession	Q08431-1
Calculated Molecular Weight	42 kDa
Observed molecular weight	45 kDa
Tag	C-His
Bioactivity	When 5 x 10^4 cells/well are added to Recombinant Human MFG-E8 coated plates (12.5 μg/mL, 100 μL/well), 45-85% cells will adhere after 1 hour at 37℃.

Properties

Purity	> 80 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS，0.2M Arg，0.01% Tween-20, pH7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

MFG-E8, also known as lactadherin and MFGE8, contains 1 EGF-like domain and 2 F5/8 type C domains. It also

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contains a 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 an 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 phagocytic removal of apoptotic cells in many tissues. It also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner.

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