

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

Catalog Number: PKSH031387

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

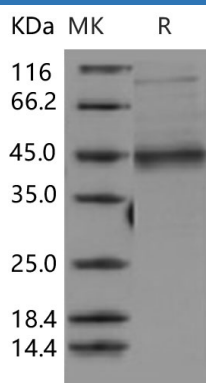
Description

| | |
|----------------------|---|
| Species | Human |
| Source | Baculovirus-Insect Cells-derived Human MFG-E8/lactadherin/MFGE8 protein Met 1-Cys 387, with an C-terminal His |
| Calculated MW | 42 kDa |
| Observed MW | 45 kDa |
| Accession | Q08431-1 |
| Bio-activity | When 5×10^4 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°C. |

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 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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% Tween 80 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



> 80 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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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 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.