

Recombinant Full Length Human MFGE8 Protein (Met1-Cys387), His-AVI-tagged, Biotinylated

Cat. No. MFGE8-445H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human MFGE8 Protein (Q08431.2) (Met1-Cys387) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.

Species

Human

Source

Insect Cells

ProteinLength

1-387 aa

Description

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.

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Predicted N Terminal	Leu 24
Form	Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 8.5, 10 % glycerol, 0.2 M Arginine, 0.01 % Tween-20. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human MFGE8 consists of 390 amino acids and predicts a molecular mass of 44.1 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

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Gene Name	MFGE8 milk fat globule-EGF factor 8 protein [Homo sapiens]
Official Symbol	MFGE8
Synonyms	MFGE8; lactadherin; BA46; EDIL1; hP47; HsT19888; MFG E8; OAcGD3S; SED1; medin; HMFG; MFGM; MFG-E8; SPAG10;
Gene ID	4240
mRNA Refseq	NM_001114614
Protein Refseq	NP_001108086
MIM	602281
UniProt ID	Q08431

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