

MFG-E8 Protein, Human (sf9, His)

Cat. No.:	HY-P73815
Synonyms:	Lactadherin; HMFG; MFGM; MFG-E8; SED1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q08431-1 (L24-C387)
Gene ID:	4240
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	<pre> LDICSKNPCH NGGLCEEISQ EVRGDVFPSY TCTCLKGYAG NHCETKCEPE LGMENGNIAN SQIAASSVRV TFLGLQHWVP ELARLN RAGM VNAWTPSSND DNPWIQVNL L RRMWVTGVVT QGASRLASHE YLKA FKVAYS LNGHEFDFIH DVNKKHKEFV GNWNKNAVHV NLFETPVEAQ YVRLYPTSCH TACTLRFELL GCELNGCANP LGLKNNSIPD KQITASSSYK TWGLHLFSWN PSYARLDKQG NFNAAVAGSY GNDQWLQVDL GSSKEVTGII TQGARNFGSV QFVAS YKVAY SNDSANWTEY QDPRTGSSKI FPGNWDNHSH KKNLFETPIL ARYVRILPVA WHNRIALRLE LLGC </pre>
Biological Activity	When 5×10^4 cells/well are added to Recombinant Human MFG-E8 coated plates (12.5 $\mu\text{g}/\text{mL}$, 100 $\mu\text{L}/\text{well}$), 45-93% cells will adhere after 1 hour at 37 $^\circ\text{C}$.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O.
Storage & Stability	Stored at -20 $^\circ\text{C}$ for 2 years. After reconstitution, it is stable at 4 $^\circ\text{C}$ for 1 week or -20 $^\circ\text{C}$ for longer (with carrier protein). It is recommended to freeze aliquots at -20 $^\circ\text{C}$ or -80 $^\circ\text{C}$ for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The MFG-E8 protein is involved in multiple essential functions, including the maintenance of intestinal epithelial homeostasis and the facilitation of mucosal healing. It aids in VEGF-dependent neovascularization and contributes to the phagocytic removal of apoptotic cells in various tissues. Acting as a specific ligand, it binds to the alpha-v/beta-3 and alpha-v/beta-5 receptors, and it also has the ability to bind to cell surfaces enriched with phosphatidylserine, independently of receptors. Furthermore, it serves as a zona pellucida-binding protein that potentially plays a role in gamete interaction. Additionally, the MFG-E8 protein is a main constituent of aortic medial amyloid.

Caution: Product has not been fully validated for medical applications. For research use only.

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