Native Bovine Lactadherin

Cat. No. MFGE8-288B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Bovine
Source	Milk
Description	Lactadherin is a widely distributed glycoprotein (~ 50 kDa), which was originally characterized due to its association with milk fat/lipid globule membranes. Synonymous names are PAS-6/7, bovine-associated mucoprotein, BA-46, P47, and MFG-E8. Structural hallmarks of lactadherin are the presence of two epidermal growth factor (EGF) homology domains (with an RGD peptide motif in the second EGF domain), and two C domains sharing homology with the discoidin family of lectin domains including the phospholipid-binding domains of blood clotting factors V and VIII. Lactadherin shows preferential binding to phosphatidylserine (L-form) in a calcium independent manner.
Form	70 mM Sodium Phosphate, pH 7.0
Molecular Mass	52 kDa and 47 kDa
Purity	>95% by SDS-PAGE. NOT tissue/cell culture grade. Not tested for endotoxin.
Characteristic	Extinction coefficient:16.5, Plasma concentration: unknown in normal adults, measurable in women with metastatic breast cancer, measurable in newborn calves after milk meal, Percent carbohydrate: 6%, 13% for glycosylation variants ,

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	Structure:single chain with two EGF domains and two C domains. The mouse isoform contains a central proline rich region and the human molecule contains a single EGF domain
Storage	-70°C

GENE INFORMATION

Gene Name	MFGE8 milk fat globule-EGF factor 8 protein [Bos taurus]
Official Symbol	MFGE8
Synonyms	lactadherin; BP47; MFGM; SED1; MFG-E8; MGP57/53; components 15/16; PAS-6/PAS-7 glycoprotein; sperm surface protein SP47
Gene ID	281913
mRNA Refseq	NM_176610
Protein Refseq	NP_788783
UniProt ID	Q95114
Chromosome Location	chromosome: 21
Pathway	Amyloids, organism-specific biosystem; Disease, organism-specific biosystem

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