

## Native MFG-E8

**Cat. No.** MFGE8-289B    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Bovine
<b>Source</b>	Milk
<b>Description</b>	<p>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.</p>
<b>Form</b>	TBS, 1% BSA, 0.02% azide, pH 7.4
<b>Molecular Mass</b>	52 kDa and 47 kDa
<b>Purity</b>	>95% by SDS-PAGE. NOT tissue/cell culture grade. Not tested for endotoxin.
<b>Characteristic</b>	<p>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, 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</p>

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domain

**Storage** 4°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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