

## Native Bovine MFGE8, Fluorescence-labeled

**Cat. No.** MFGE8-8518B    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview** Native Bovine Lactadherin is purified from un-pasteurized bovine milk.

**Species** Bovine

**Source** Bovine

**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. Purified lactadherin functions as an anticoagulant by blocking phosphatidylserine-containing membrane sites for blood coagulation proteins. Fluorescence-labeled lactadherin functions as a sensitive probe for exposed phosphatidylserine on nucleated cells and on stimulated platelets. Lactadherin will bind to membranes that have phosphatidylserine content below the threshold for annexin V binding.

**Form** 70 mM Sodium Phosphate, pH 7.0

**Molecular Mass** 52 kDa and 47 kDa (glycosylation variants, PAS-6 and PAS-7 respectively)

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**Purity** >95% by SDS-PAGE (both)

**Storage** -70°C

## GENE INFORMATION

**Gene Name** MFGE8 milk fat globule-EGF factor 8 protein [ Bos taurus ]

**Official Symbol** MFGE8

**Synonyms** MFGE8; BP47; MFG-E8; MFGM; MGP57/53; PAS-6/PAS-7 glycoprotein; SED1; components 15/16; lactadherin; sperm surface protein SP47

**Gene ID** 281913

**mRNA Refseq** NM\_176610.1

**Protein Refseq** NP\_788783.1

**UniProt ID** Q95114

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