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TIMP4 ELISA Kit



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Quantity:	1 kit
Target:	TIMP4
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	78 pg/mL - 5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: Metalloproteinase inhibitor 4, TIMP 4, TIMP metallopeptidase inhibitor 4, Tissue	

inhibitor of metalloproteinase 4, Tissue inhibitor of metalloproteinases 4

Background: Metalloproteinase inhibitor 4 is an enzyme that in humans is encoded by the TIMP4 gene. This gene belongs to the tissue inhibitor of metalloproteinases gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. TIMP4 gene is mapped to chromosome 3p25. TIMP4 gene contains 5 exons that span 6 kb of genomic DNA. The gene is expressed as a 1.4-kb transcript abundant in heart and present at low levels in several other

tissues. Expressed TIMP4 inhibits MMPs in vitro. What's more, TIMP-4 binds both progelatinase $\,$

A and the C domain in a similar manner to that of TIMP-2.

Gene Name: TIMP4

Production: Natural and recombinant mouse TIMP-4. There is no detectable cross-reactivity

with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: C30-P224

Target Details

Target:	TIMP4	
Alternative Name:	TIMP-4 (TIMP4 Products)	
Gene ID:	110595	
NCBI Accession:	NP_542370	
UniProt:	Q9JHB3	

Application Details

Annl	ication	Notes.

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 5,000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL, 78pg/mL mouse TIMP-4 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernatants, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse TIMP-4 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 78pg/mL-5,000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage:	RT,4 °C,-20 °C

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only

prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.