

Pig Tissue inhibitors of metalloproteinase 3 (TIMP3) ELISA Kit

Catalog No: #EK12318

Package Size: #EK12318-1 48T #EK12318-2 96T

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Description

Product Name	Pig Tissue inhibitors of metalloproteinase 3 (TIMP3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (<i>Sus scrofa</i> ; Porcine)
Other Names	HSMRK222; K222; K222TA2; SFD; MIG-5 protein tissue inhibitor of metalloproteinase 3
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.059 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate TIMP3 in samples. An antibody specific for TIMP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTIMP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TIMP3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TIMP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TIMP3,? The cDNAs contained a 591-bp open reading frame encoding 9 amino acid residues of the signal peptide and 188 residues of the mature TIMP3 polypeptide. Both the nucleotide sequence and the deduced translation product of the TIMP3 cDNA had a high degree of similarity to the TIMP1 and TIMP2 gene products, including 12 conserved cysteinyl residues at the same relative positions. The TIMP3 gene is expressed in many tissues, with highest expression in the placenta. Wilde et al. (1994) cloned and sequenced TIMP3 from phorbol ester-differentiated cells stimulated with bacterial lipopolysaccharide. The open reading frame encoded a 211-amino acid precursor, including a 23-residue secretion signal. The mature polypeptide had a calculated molecular weight of 21.6 kD.

Note: This product is for in vitro research use only