



Human tissue inhibitors of metalloproteinase 3, TIMP-3 ELISA Kit

Product Code	CSB-E04734h
Abbreviation	TIMP3
Protein Biological Process 1	Neurobiology
Target Name	TIMP metalloproteinase inhibitor 3
Uniprot No.	P35625
Alias	HSMRK222, K222, K222TA2, SFD, MIG-5 protein tissue inhibitor of metalloproteinase 3
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Sensory transduction
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	7.8 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	TIMP3
Tag Info	quantitative
Protein Description	Sandwich

Description

The ELISA Kit is designed for quantitatively measuring human TIMP3 levels in samples, including serum, plasma, or tissue homogenates. It uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of TIMP3 in samples. The color intensity is measured at 450 nm via a microplate reader.

TIMP3 has the broadest range of inhibition, targeting all members of the matrix metalloproteinase (MMP) family and several members of a disintegrin and metalloproteinases (ADAMs), and ADAM with thrombospondin motifs



(ADAMTSs) family. Independent of its inhibitory capabilities, TIMP3 is also involved in promoting cell proliferation and regulating angiogenesis and apoptosis. The absence of TIMP3 results in poor cardiac remodeling and has been related to myocardial infarction or hypertension. In cancer studies, TIMP3 plays an important role in the cancer hallmark by controlling cell death, angiogenesis, tumor inflammation, and tumor cell invasion and dissemination.

Target Details

This gene belongs to the TIMP 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 (ECM). Expression of this gene is induced in response to mitogenic stimulation and this netrin domain-containing protein is localized to the ECM. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby's fundus dystrophy.

Msds

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