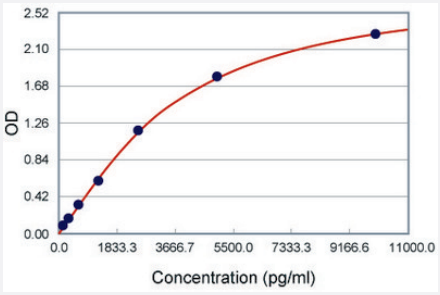
# TIMP2 (Human) ELISA Kit

Catalog # KA0549 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | TIMP2 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human TIMP2. |
| **Suitable Sample** | Cell Culture Supernatant, Plasma (EDTA, Heparin), Serum, Saliva |
| **Sample Volume** | 100 uL |
| **Label** | HRP-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 156 to 10000 pg/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles. |

## Applications

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- Quantification

## Gene Info — TIMP2

| | |
|---|---|
| **Entrez GeneID** | 7077 |
| **Gene Name** | TIMP2 |
| **Gene Alias** | CSC-21K |
| **Gene Description** | TIMP metallopeptidase inhibitor 2 |
| **Omim ID** | 188825 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene is a member of the TIMP gene family. The proteins encoded by this gene family are nat ural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of t he extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded pr otein has a unique role among TIMP family members in its ability to directly suppress the proliferat ion of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tiss ue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic f actors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular ma trix. [provided by RefSeq |
| **Other Designations** | tissue inhibitor of metalloproteinase 2\|tissue inhibitor of metalloproteinases 2 |

## Publication Reference


- Animal Models of Steatosis (NAFLD) and Steatohepatitis (NASH) Exhibit Hepatic Lobe-Specific Gelatinases Activity and Oxidative Stress.

  Palladini G, Di Pasqua LG, Berardo C, Siciliano V, Richelmi P, Perlini S, Ferrigno A, Vairetti M.

  Canadian Journal of Gastroenterology & Hepatology 2019 Feb; 2019:5413461.

  Application: Quant, Rat, Rat livers

- TIMP-2 mediated inhibition of angiogenesis: an MMP-independent mechanism.

  Seo DW, Li H, Guedez L, Wingfield PT, Diaz T, Salloum R, Wei BY, Stetler-Stevenson WG.

  Cell 2003 Jul; 114(2):171.


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- Structure and characterization of the human tissue inhibitor of metalloproteinases-2 gene.

  Hammani K, Blakis A, Morsette D, Bowcock AM, Schmutte C, Henriet P, DeClerck YA.

  The Journal of Biological Chemistry 1996 Oct; 271(41):25498.

  Application: Quant, Human, EJ, RT4 cells

- The gene for tissue inhibitor of metalloproteinases-2 is localized on human chromosome arm 17q25.

  De Clerck Y, Szpirer C, Aly MS, Cassiman JJ, Eeckhout Y, Rousseau G.

  Genomics 1992 Nov; 14(3):782.

## Disease

- Alzheimer disease
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Atrial Fibrillation
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cerebral Hemorrhage
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Colitis

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- Constriction
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Duodenal Ulcer
- Edema
- Endometrial Neoplasms
- Endometriosis
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Graft Occlusion
- Head and Neck Neoplasms
- Helicobacter Infections
- Hepatitis C
- Hypertension
- Hypertrophy
- Inflammation
- Intracranial Aneurysm
- Liver Cirrhosis
- Long QT syndrome
- Metabolic Syndrome X
- Metaplasia

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- Mouth Neoplasms
- Myocardial Infarction
- Neoplasm
- Neoplasms
- Obstetric Labor
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Periodontitis
- Pre-Eclampsia
- Premature Birth
- Pulmonary Disease
- Recurrence
- Stomach Neoplasms
- Thrombosis
- Uterine Diseases

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