

Datasheet for ABIN6719721

TIMP1 ELISA Kit**1** Image[Go to Product page](#)

Overview

| | |
|--------------------------|-------------------------|
| Quantity: | 1 kit |
| Target: | TIMP1 |
| Reactivity: | Rat |
| Method Type: | Sandwich ELISA |
| Detection Range: | 31.2 pg/mL - 2000 pg/mL |
| Minimum Detection Limit: | 31.2 pg/mL |
| Application: | ELISA |

Product Details

| | |
|--------------------|--|
| Purpose: | Rat TIMP-1 Sandwich ELISA Kit for Quantitative Detection |
| Brand: | AccuSignal™ |
| Sample Type: | Cell Culture Supernatant, Plasma (EDTA - heparin), Serum |
| Analytical Method: | Quantitative |
| Detection Method: | Colorimetric |
| Specificity: | Production: Natural and recombinant rat TIMP-1. There is no detectable cross-reactivity with other relevant proteins. |
| Sensitivity: | < 3 pg/mL |
| Components: | <ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody |

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target: TIMP1

Alternative Name: TIMP-1 ([TIMP1 Products](#))

Background: Synonyms: C-C chemokine receptor type 5, CC-CKR-5, CCR5, CCR5_HUMAN, CHEMR13, CLGI, Collagenase inhibitor, EPA, EPO, Erythroid potentiating activity, Fibroblast collagenase inhibitor, HCl, HIV-1 fusion coreceptor, Human Collagenase Inhibitor, Metalloproteinase inhibitor 1, Metalloproteinase inhibitor 1 precursor, TIMP, TIMP metalloproteinase inhibitor 1, TIMP1 protein, Tissue inhibitor of metalloproteinases, Tissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor

Background: The tissue inhibitor of metalloproteinases 1(TIMP1) is also called erythroid-potentiating activity(EPA). The X-linked gene for human TIMP1 is expressed in some but not all inactive X-containing somatic-cell hybrids, suggesting that this gene is either prone to reactivation or variable in its inactivation.¹ Purified EPA specifically stimulates human and murine cells of the erythroid lineage, unlike murine interleukin-3(IL-3) which stimulates precursor cells from all haematopoietic lineages.² TIMP1 is thought to play a regulatory role in connective tissues by forming inactive complexes with those metalloproteinases that are normally responsible for connective tissue turnover. The human gene encoding TIMP has been mapped to the X chromosome in the region Xp11.1-p11.4.³ The standard product used in this kit is recombinant rat TIMP-1, consisting of 194 amino acids with the molecular mass of 21.5KDa. As a result of glycosylation, the molecular mass is 32-34KDa.

Gene ID: 116510

NCBI Accession: [NP_446271](#)

UniProt: [P30120](#)

Application Details

Application Notes: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL rat TIMP-1

Application Details

standard solutions into the pre-coated 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 rat cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each rat TIMP-1 standard solution and each sample be measured in duplicate.

Comment: Standard: Expression system for standard: NSO, Immunogen sequence: C24-A217

Sample Volume: 100 μ L

Plate: Pre-coated

Restrictions: For Research Use only

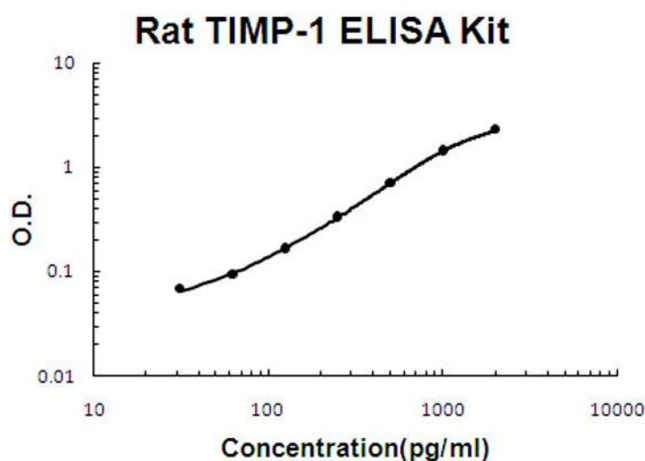
Handling

Storage: 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.

Expiry Date: 12 months

Images



ELISA

Image 1. Rat TIMP-1 Accusignal ELISA Kit Rat TIMP-1 Accusignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <3pg/ml.