

**ARG81284**  
**Rat TIMP-1 ELISA Kit**Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG81284 Rat TIMP-1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat TIMP-1 in serum, plasma or cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	TIMP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Sample Type	Serum, plasma or cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl
Alternate Names	Erythroid-potentiating activity; TIMP; Collagenase inhibitor; Fibroblast collagenase inhibitor; TIMP-1; EPO; CLGI; Tissue inhibitor of metalloproteinases 1; HCl; Metalloproteinase inhibitor 1; EPA

### Application Instructions

Assay Time	~ 3.5 hours
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

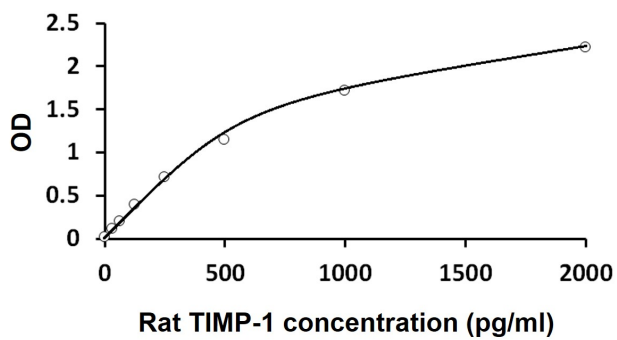
### Bioinformation

Gene Symbol	Timp1
Gene Full Name	TIMP metalloproteinase inhibitor 1
Background	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]

Function	<p>Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. [UniProt]</p>
Highlight	<p>Related products:  <a href="#">TIMP1 antibodies</a>; <a href="#">TIMP1 ELISA Kits</a>;  Related news:  <a href="#">Detecting MMPs and their non-ECM substrates</a>  New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	<p>The activity of TIMP1 is dependent on the presence of disulfide bonds.  N-glycosylated.</p>

## Images

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ARG81284 Rat TIMP-1 ELISA Kit standard curve image

ARG81284 Rat TIMP-1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.