

## ARG81880 Rat TIMP2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81880-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81880-002	Standard	2 X 10 ng/vial	4°C
ARG81880-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81880-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81880-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81880-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81880-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81880-008	25X Wash buffer	20 ml	4°C
ARG81880-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81880-010	STOP solution	10 ml (Ready to use)	4°C
ARG81880-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81880 Rat TIMP2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat TIMP2 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	TIMP2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.7%; Inter-Assay CV: 6.8%
Alternate Names	TIMP-2; Tissue inhibitor of metalloproteinases 2; CSC-21K; DDC8; Metalloproteinase inhibitor 2

## Application Instructions

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Assay Time	~ 5 hours
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## Properties

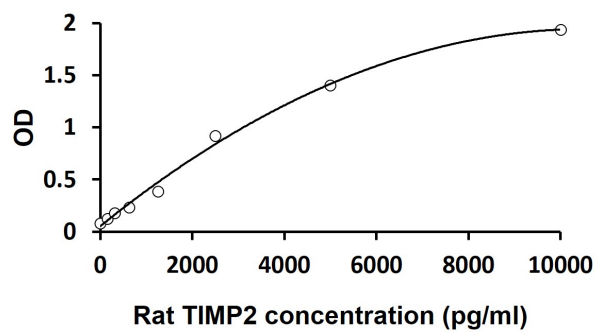
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Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail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

## Bioinformation

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Gene Symbol	TIMP2
Gene Full Name	TIMP metalloproteinase inhibitor 2
Background	This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008]
Function	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-13, MMP-14, MMP-15, MMP-16 and MMP-19. [UniProt]
Highlight	Related products: <a href="#">TIMP2 antibodies</a> ; <a href="#">TIMP2 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>
PTM	The activity of TIMP2 is dependent on the presence of disulfide bonds. [UniProt]



ARG81880 Rat TIMP2 ELISA Kit standard curve image

ARG81880 Rat TIMP2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.