

# Product datasheet

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ARG82075 Rat MMP1 ELISA Kit Package: 96 wells Store at: 4°C

## Summary

Product Description ARG82075 Rat MMP1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat MMP1 in

serum, plasma and cell culture supernatants.

Tested Reactivity Rat

Tested Application ELISA

**Specificity** The following recombinant Rat proteins were tested and exhibited no cross-reactivity or interference:

Adiponectin, ApoAI, BMP7, CCL2, CRP, FGF acidic, HGF, HSP27, IGF1, IL1 alpha, IFN alpha, IFN beta, IFN gamma, MMP2, MMP3, MMP9, PDGF, PLA2G7, prolactin, TLR4, TGF beta 1, TNF alpha, TNF RI, TNF RII,

VEGF proteins.

Target Name MMP1

Conjugation HRP

Conjugation Note Read at 450 nm.

Sensitivity 18 pg/ml

Sample Type Serum, plasma and cell culture supernatants.

Standard Range 93 - 6000 pg/ml

Sample Volume  $$100~\mu l$$ 

Precision Intra-Assay CV: 5%; Inter-Assay CV: 10%

Alternate Names MMP-1; CLG; Fibroblast collagenase; Matrix metalloproteinase-1; CLGN; EC 3.4.24.7; Interstitial

collagenase

## **Application Instructions**

Assay Time ~ 3 hours

## **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 MMP1

Gene Full Name matrix metallopeptidase 1

Background Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular

matrix in normal physiological processes, such as embryonic development, reproduction, and tissue

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remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

Function Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types

VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a

decrease in neuronal Tat's mediated neurotoxicity. [UniProt]

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MMP1 antibodies; MMP1 ELISA Kits;

Related news:

**Detecting MMPs and their non-ECM substrates** 

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is the

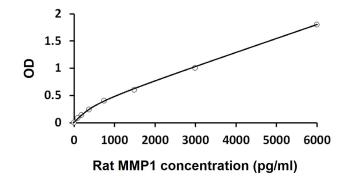
glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act

as activator for collagenase.

Tyrosine phosphorylated in platelets by PKDCC/VLK. [UniProt]

Cellular Localization Secreted, extracellular space, extracellular matrix. [UniProt]

### **Images**



### ARG82075 Rat MMP1 ELISA Kit standard curve image

ARG82075 Rat MMP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.