

# Recombinant human MMP-2 protein

Catalog Number: ATGP2547

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

110-660aa

**UniProt No.**

P08253

**NCBI Accession No.**

NP\_004521

**Alternative Names**

Matrix metalloproteinase 2, Matrix metalloproteinase 2, CLG4, CLG4A, MMP-II, MONA, TBE-1

## PRODUCT SPECIFICATION

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**Molecular Weight**

64.7 kDa (576aa)

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

MMP2 protein of the matrix metalloproteinase (MMP) family is involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue 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. MMP2 is an enzyme which degrades type IV collagen, the major structural component of basement membranes. It plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Recombinant human MMP2 protein, fused to His-

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tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

## Amino acid Sequence

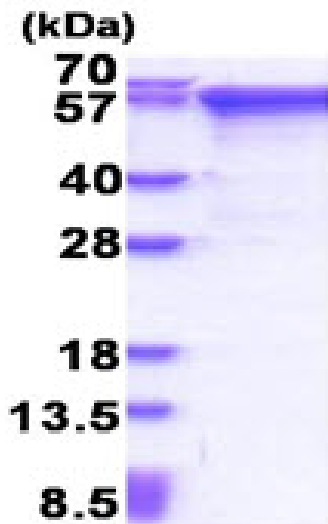
MGSSHHHHHH SSGLVPRGSH MGSEFYNFFP RPKKWDKNQI TYRIIGYTPD LDPETVDDAF ARAFQVWSDV TPLRFSRIHD  
GEADIMINFG RWEHGDGYPF DGKDGLLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK  
FPFLFNGKEY NSCTDTGRSD GFLWCSTTYN FEKDGKYGFC PHEALFTMGG NAEGQPCKFP FRFQGTSYDS CTTEGRTDGY  
RWC GTTEDYD RDKKYGFCPE TAMSTVGGNS EGAPCVFPFT FLGNKYESCT SAGRSDGKMW CATTANYDDD  
RKWGFCDPQG YSLFLVAAHE FGHAMGLEHS QDPGALMAPI YTYTKNFRLS QDDIKGIQEL YGASPDIDLG TGPTPTLGPV  
TPEICKQDIV FDGIAQIRGE IFFFKDRFIW RTVTPRDKPM GPLLVATFWP ELPEKIDAVY EAPQEEKAVF FAGNEYWIYS  
ASTLERYPK PLTSLGLPPD VQRVDAAFNW SKNKTYIFA GDKFWRYNEV KKKMDPGFPK LIADAWNAIP DNLDVAVDLQ  
GGGHSYFFKG AYYLKLENQS LKSVKFGSIK SDWLGC

## General References

Kwan J.A., et al. (2004) FASEB J. 18:690-692

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)