

# Recombinant mouse MMP-2 protein

Catalog Number: ATGP3909

## PRODUCT INFORMATION

### Expression system

Baculovirus

### Domain

30-662aa

### UniProt No.

P33434

### NCBI Accession No.

NP\_032636.1

### Alternative Names

Mmp2, 72 kDa type IV collagenase, 72 kDa gelatinase, Gelatinase A, MMP-2, PEX, Clg4a, GelA, MMP-II, Matrix metalloproteinase-2

## PRODUCT SPECIFICATION

### Molecular Weight

72.4 kDa (644aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

### Description

MMP-2, also known as Matrix metalloproteinase-2, is one of the f the matrix metalloproteinase (MMP) family. It 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

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and metastasis. It has a role in myocardial cell death pathways and contributes to myocardial oxidative stress by regulating the activity of GSK3beta. This protein cleaves GSK3beta in vitro and involved in the formation of the fibrovascular tissues. Recombinant mouse MMP-2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADPEF>APSPI IKFPGDVAPK TDKELAVQYL NTFYGCPKES CNLFVLKDTL KKMQKFFGLP QTGDLDQNTI ETMRKPRCGN PDVANYNFFP RPKKWDKNQI TYRIIGYTPD LDPETVDDAF ARALKVWSDV TPLRFSRIHD GEADIMINFG RWEHGDGYPF DGKDGLLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK FPFLFNGREY SSCTDTGRSD GFLWCSTTYN FEKDGKYGFC PHEALFTMGG NADGQPCFKP FRFQGTSYNS CTTEGRTDGY RWC GTTEDYD RDKKYGFCPE TAMSTVGGNS EGAPCVFPFT FLGNKYESCT SAGRNDGKVV CATTNYYDDD RKWGFCDQG YSLFLVAAHE FGHAMGLEHS QDPGALMAPI YTYTKNFRLS HDDIKGIQEL YGSPDADTD TGTGPTPTLG PVTPEICKQD IVFDGIAQIR GEIFFFKDRF IWRTVTPRDK PTGPLLVA TF WPPELPEKIDA VYEAPQEEKA VFFAGNEYWV YSASTLERGY PKPLTSLGLP PDVQQVDAAF NWSKNKTYI FAGDKFWRYN EVKKKMDPGF PKLIADSWNA IPDNLDAVVD LQGGGHSYFF KGAYYKLEN QSLKSVKFGS IKSDWLGC<HH HHHH>

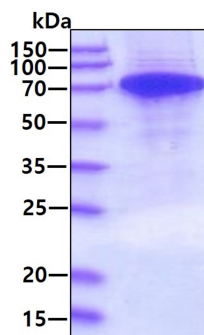
## General References

Shon SM., et al. (2017) Circ J. 81:1528-1536.

Wu W., et al. (2018) Cell Cycle. 18:46-59.

## DATA

### SDS-PAGE



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