

Recombinant Full Length mouse Mmp2 protein, His-tagged

Cat. No. Mmp2-23MFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length mouse Mmp2 protein, His-tagged, expressed in Baculovirus.
Species	Mouse
Source	Baculovirus
Protein Length	30-662aa
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 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, was expressed in insect cell and purified by using conventional chromatography techniques.
Tag	His
Molecular Mass	72.4 kDa
AA Sequence	APSPI IKFPGDVAPK TDKELAVQYL NTFYGCPKES CNLFVLKDTL KKMQKFFGLP QTGDLDQNTI ETMRKPRCGN PDVANYNFFP RPKKWDKNQI TYRIIGYTPD LDPETVDDAF ARALKVWSDV

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TPLRFSRIHD GEADIMINFG RWEHGDGYPF
 DGKDGLLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK
 FPFLFNGREY SSCTDTGRSD
 GFLWCSTTYN FEKDGKYGFC PHEALFTMGG NADGQPCKFP FRFQGTSYNS
 CTTEGRTDGY RWC GTTEDYD RDKKYGFCPE
 TAMSTVGGNS EGAPCVFPFT FLGNKYESCT SAGRNDGKVV CATTNYDDD
 RKWGFCPDQG YSLFLVAAHE
 FGHAMGLEHS QDPGALMAPI YTYTKNFRLS HDDIKGIQEL YGPSPDADTD
 TGTGPTPTLG PVTPEICKQD IVFDGIAQIR
 GEIFFFKDRF IWRTVTPRDK PTGPLLVATF WPELPEKIDA VYEAPQEEKA
 VFFAGNEYWV YSASTLERGY PKPLTSLGLP
 PDVQQVDAAF NWSKNKKTYI FAGDKFWRYN EVKKKMDPGF PKLIADSWNA
 IPDNLDAVVD LQGGGHSYFF KGAYYKLEN
 QSLKSVKFGS IKSDWLGC

Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	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.
Concentration	0.25mg/ml (determined by absorbance at 280nm)
Storage Buffer	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GenelD	17390

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References

Shon SM., et al. (2017) Circ J. 81:1528-1536.
 Wu W., et al. (2018) Cell Cycle. 18:46-59.

GENE INFORMATION

Gene Name [Mmp2 matrix metalloproteinase 2 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Mmp2](#)

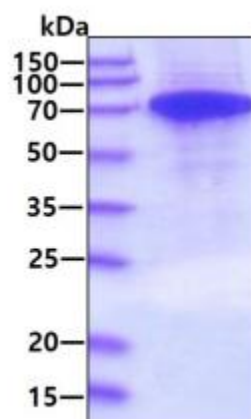
Synonyms Mmp2, 72 kDa type IV collagenase, 72 kDa gelatinase, Gelatinase A, MMP-2, PEX, Clg4a, GelA, MMP-II, Matrix metalloproteinase-2

mRNA Refseq [NM_008610](#)

Protein Refseq [NP_032636.1](#)

UniProt ID [P33434](#)

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



SDS-PAGE and coomassie blue stain.

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