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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 embryonicdevelopment, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis

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andmetastasis. It has a role in myocardial cell death pathways and contributes to myocardial oxidative stress byregulating 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 ininsect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

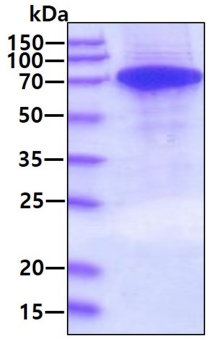
<ADPEF>APSPI IKFPGDVAPK TDKELAVQYL NTFYGCPKES CNLFVLKDTL KKMQKFFGLP QTGDLDQNTI ETMRKPRCGN PDVANYNFFP RKPKWDKNQI TYRIIGYTPD LDPETVDDAF ARALKVWSDV TPLRFSRIHD GEADIMINFG RWEHGDGYPF DGKDGLLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK FPFLFNGREY SSCTDTGRSD GFLWCSTTYN FEKDGKYGFC PHEALFTMGG NADGQPCKFP FRFQGTSYNS CTTEGRTDGY RWCGTTEDYD RDKKYGFCPE TAMSTVGGNS EGAPCVFPFT FLGNKYESCT SAGRNDGKVW CATTTNYDDD 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 KGAYYLKLEN 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.