

AR51367PU-S

Human MMP-2 (110-660, His-tag) - Purified

Alternate names:

72 kDa gelatinase, 72 kDa type IV collagenase, CLG4A, Gelatinase A, MMP2, Matrix metalloproteinase-2, TBE-1

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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

Uniprot ID:

[P08253](#)

NCBI:

[NP_004521](#)

GenelD:

[4313](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Description:

AA Sequence:

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MGSSHHHHHH SSGLVPRGSH MGSEFYNFFP RKPKWCKNQI TYRIIGYTPD LDPETVDDAF
ARAFQVWSDV TPLRFSRIHD GEADIMINFG RWEHGDGYPF DGKDGLLAHA FAPGTGVGGD
SHFDDDELWT LGEGQVVRVK YGNADGEYCK FPFLFNGKEY NSCTDTGRSD GFLWCSTTYN
FEKDGKYGFC PHEALFTMGG NAEGQPCKFP FRFQGTSDYD CTTEGRTDGY RWCCTTEDYD
RDKKYGFCEP TAMSTVGGNS EGAPCVFPFT FLGNKYEST SAGRSDGKMW CATTANYDDD
RKWGFCDPDG YSLFLVAAHE FGHAMGLEHS QDPGALMAPI YTYTKNFRLS QDDIKGIQEL
YGASPDIDLG TGPTPTLGPV TPEICKQDIV FDGIAQIRGE IFFFKDRFIW RTVTPRDKPM
GPLLVATFWP ELPEKIDAVY EAPQEEKAVF FAGNEYWIYS ASTLERGYPK PLTSLGLPPD
VQRVDAAFNW SKNKKTYIFA GDKFWRYNEV KKKMDPGFPK LIADAWNAP DNLDVAVDLQ
GGGHSYFFKG AYYLKLENQS LKSVKFGSIK SDWLGC
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Molecular weight: 64.7 kDa (576aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

Pictures:

