

Product information



MMP2, 110-660aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2547

Full name: Matrix metalloproteinase 2

NCBI Accession No.: NP_004521

Synonyms: CLG4, CLG4A, MMP-II, MONA, TBE-1

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

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol</p> <p>Molecular Weight: 64.7 kDa (576aa)</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 0.25 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSEFYNFFP RPKKWDKNQI TYR I IGYTPD LDPETVDDAF ARAFQWSDV TPLRFSRIHD GEADIMINFG
RWEHGDGYPF DGKDGLLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK FPFLFNGKEY NSCTDTGRSD GFLWCSTTYN
FEKDGKYGFC PHEALFTMGG NAEQGPKCFP FRFQGTYSYDS CTTEGRTDGY RWCGTTEDYD RDKKYGFCPE TAMSTVGGNS EGAPCVFPFT
FLGNKYESCT SAGRSDGKMW CATTANYDDD RKWGFCDPQG YSLFLVAAHE FGHAMGLEHS QDPGALMAPI YTYTKNFRLS QDDIKGIQEL
YGASPDIDLG TGPTPTLGPV TPEICKQDIV FDGIAQIRGE IFFFKDRFIW RTVTPROKPM GPLLVATFWP ELPEKIDAVY EAPQEEKAVF
FAGNEYWIYS ASTLERGYPK PLTSLGLPPD VQRVDAAFNW SKNKKTYIFA GDKFWRYNEV KKKMDPGFPK LIADAWNAIP DNLDVAVDLQ
GGGHSYFFKG AYYLKLENQS LKSVKFGSIK SDWLGC

General references:

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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