# **Product information**



## MMP2, 110-660aa

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

Cat. No. IBATGP2547

Full name: Matrix metallopeptidase 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

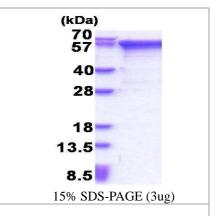
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl,

10% glycerol

Molecular Weight: 64.7 kDa (576aa)

Purity: > 95% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



#### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSEEYNFFP RKPKWDKNQI TYRIIGYTPD LDPETVDDAF ARAFQVWSDV TPLRFSRIHD GEADIMINFG RWEHGDGYPF DGKDGLAHA FAPGTGVGGD SHFDDDELWT LGEGQVVRVK YGNADGEYCK FPFLFNGKEY NSCTDTGRSD GFLWCSTTYN FEKDGKYGFC PHEALFTMGG NAEGQPCKFP FRFQGTSYDS CTTEGRTDGY RWCGTTEDYD RDKKYGFCPE TAMSTVGGNS EGAPCVFPFT FLGNKYESCT SAGRSDGKMW CATTANYDDD RKWGFCPDQG YSLFLVAAHE FGHAMGLEHS QDPGALMAPI YTYTKNFRLS QDDIKGIQEL YGASPDIDLG TGPTPTLGPV TPEICKQDIV FDGIAQIRGE IFFFKDRFIW RTVTPRDKPM GPLLVATFWP ELPEKIDAVY EAPQEEKAVF FAGNEYWIYS ASTLERGYPK PLTSLGLPPD VQRVDAAFNW SKNKKTYIFA GDKFWRYNEV KKKMDPGFPK LIADAWNAIP DNLDAVVDLQ 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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