

# Product information

## MMP1, 18-469aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3439

**Full name:** Interstitial collagenase isoform 1

**NCBI Accession No.:** NP\_002412

**Synonyms:** MMP1, CLG, CLGN

**Description:** MMP1, also known as interstitial collagenase isoform 1, contains 4 hemopexin-like domains and is a member of the matrix metalloproteinase (MMP) family. It is capable of degrading a wide range of extracellular molecules and a number of bioactive molecules. It plays a central role in cell proliferation, migration, differentiation, angiogenesis, apoptosis and host defences. Recombinant human MMP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM MES buffer (pH 5.5) containing 10mM CaCl<sub>2</sub>, 100 mM NaCl, 0.05% Brij35, 30% glycerol.

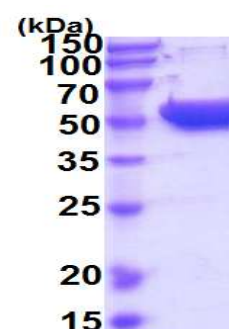
**Molecular Weight:** 53.1kDa (460aa)  
50-70kDa (SDS-PAGE under reducing conditions)

**Predicted N terminal:** His18

**Purity:** > 95% by SDS - PAGE.

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

HSFPATLETQ EQDVDLVQKY LEKYNNLKNQ GRQVEKRRNS GPVVEKLGKQM QEFFGLKVTG KPDAETLKVM KQPRCGVDPD AQFVLTEGNP  
RWEQTHLYR IENYTPDLPR ADVDAIEKA FQLWSNVTPPL TFTKVSEGQA DIMISFVRGD HRDNSPFDGP GGNLAHAFQP GPGIGGDAHF  
DEDERWTNNF REYNLHRVAA HELGHSLGLS HSTDIGALMY PSYTFSGDVQ LAQDDIDGIQ AIYGRSQNPV QPIGPQTPKA CDSKLTFDAI  
TTIRGEVMFF KDRFYMRNTP FYPEVELNFI SVFWPQLPNG LEAAYEFADR DEVRFFKGNK YWAVQQQNVL HGYPKDIYSS FGFPRTVKHI  
DAALSEENTG KTYFFVANKY WRYDEYKRSM DPGYPKMI AHDFPGIGHKVD AVFMKDGFFY FFHGTQRQYKF DPKTKRILTL QKANSWFNCR  
KNLEHHHHHH

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



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**General references:**

Kumar JD., *et al.* (2015) *Am J Physiol Gastrointest Liver Physiol.* 309:G78-G86.

Yang H., *et al.* (2015) *Biochemistry.* 54:3631-3639.

**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.

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