

Product information

MMP1, 100- 469aa

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

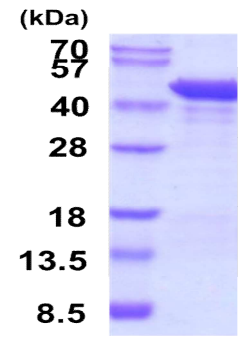
Cat. No. IBATGP2542

Full name: interstitial collagenase isoform 1 preproprotein

NCBI Accession No.: NP_002412

Synonym: CLG, CLGN

Description: MMP1 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. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Recombinant human MMP1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea</p> <p>Molecular Weight: 45.0 kDa (393aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 1mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MGSFVLTEGN PRWEQTHLTY RIENYTPDLP RADVDHAI EK AFQLWSNVTP LTFTKVSEGG ADIMISFVRG DHRDNSPFDG PGGNLAHAFQ PGP GIGGDAH FDEDERWTNN FREYNLHRVA AHELGHSLGL SHSTDIGALM YPSYTFSGDV QLAQDDIDGI QAIYGRSQNP VQPIGPQTPK ACDSKLTFDA ITTIRGEVMF FKDRFYMRNT PFYPEVELNF ISVFWQLPN GLEAAEFAD RDEVRFFKGN KYWAVQGQNV LHGYPKDIYS SFGFPRTVKH IDAALSEENT GKTYFFVANK YWRYDEYKRS MDPGYPKMIA HDFPGIGHKV DAVFMKDGFF YFFHGTRQYK FDPKTKRILT LQKANSWFNC RKN</p>	

General references:

Desrochers P.E., *et al* (1991). J. Clin. Invest. 87:2258-2265

Templeton N.S., *et al* (1990). Cancer Res. 50:5431-5437

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.