

**MMP1, 100- 469aa, Human, His tag, E.coli**

**Cat.NO.: TP02989**

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3th Edition

**Synonyms:**interstitial collagenase isoform 1 preproprotein , 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.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea

**Molecular Weight:**45.0 kDa (393aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSFVLTEGNPRWEQTHLTYRIENYTPDLPRADVDHAIEKAFQLWSNVTPLTFTK  
VSEGQADIMISFVRGDHRDNPFDPGGNLAHAFQPGPGIGGDAHFDERWTNRFREYNLHRVAHELGHSLG  
LSHSTDIGALMYPSTYFSGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDSKLTFDAITIRGEVMFFKDRFYM  
RTNPFYPEVELNFISVFWPQLPNGLEAAYEFADRDEVRFKGNKYWAVQGQNVLHGYPKDIYSSFGFPRTVKHIDA  
ALSEENTGKTYFFVANKYWRYDEYKRSMDPGYPKMIHDFPGIGHKVDVFMKDGFFYFFHGTRQYKFDPKTKRIL  
TLQKANSWFNCRKN

**Purity:**> 95% by HPLC

**Concentration:**1mg/ml (determined by Bradford assay)

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

**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.