

# Recombinant Human matrix metalloproteinase 10 (stromelysin 2), His-tagged

**Cat. No.** MMP10-440H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	MMP10, 99-476aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	99-476 a.a.
<b>Description</b>	<p>MMP10 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. The enzyme encoded by this gene degrades proteoglycans and fibronectin. MMP10 is part of a cluster of MMP genes which localize to chromosome 11q22.3. Recombinant human MMP10 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
<b>Molecular Mass</b>	45.4kDa (401aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSFSSFPGM PKWRKTHLTY RIVNYTPDLP            RDAVDSAIEK ALKVWEEVTP LTF SRLYEGE ADIMISFAVK EHGDFYSFDG            PGHSLAHAYP PGPGLYGDH FDDDEKWTEG ASGTNLF LVA AHELGHSLGL</p>

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FHSANTEALM YPLYNSFTEL AQFRLSQDDV NGIQSLYGPP PASTEEPLVP  
 TKSVPSGSEM PAKCDPALSF DAISTLRGEY LFFKDRYFWR RSHWNPEPEF  
 HLISAFWPSL PSYLDAAAYEV NSRDTVFIK GNEFWAIRGN EVQAGYPRGI  
 HTLGFPPTIR KIDAAVSDKE KKKTYFFAAD KYWRFDENSQ SMEQGFPRLI  
 ADDFPGVPEK VDAVLQAFGF FYFFSGSSQF EFDPNARMVT HILKSNSWLH C

**Purity** >90% by SDS - PAGE

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

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [MMP10 matrix metalloproteinase 10 \(stromelysin 2\) \[ Homo sapiens \]](#)

**Official Symbol** MMP10

**Synonyms** MMP10; matrix metalloproteinase 10 (stromelysin 2); matrix metalloproteinase 10 (stromelysin 2) , STMY2; stromelysin-2; MMP-10; transin 2; transin-2; stromelysin 2; matrix metalloproteinase 10; matrix metalloproteinase-10; matrix metalloproteinase 10 (stromelysin 2); SL-2; STMY2;

**Gene ID** [4319](#)

**mRNA Refseq** [NM\\_002425](#)

**Protein Refseq** [NP\\_002416](#)

**MIM** [185260](#)

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<b>UniProt ID</b>	P09238
<b>Chromosome Location</b>	11q22.3
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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