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

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

SPECIFICATION

Product Overview	MMP10, 99-476aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	99-476 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	45.4kDa (401aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFSSFPGM PKWRKTHLTY RIVNYTPDLP RDAVDSAIEK ALKVWEEVTP LTFSRLYEGE ADIMISFAVK EHGDFYSFDG PGHSLAHAYP PGPGLYGDIH FDDDEKWTED ASGTNLFLVA AHELGHSLGL

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	FHSANTEALM YPLYNSFTEL AQFRLSQDDV NGIQSLYGPP PASTEEPLVP TKSVPSGSEM PAKCDPALSF DAISTLRGEY LFFKDRYFWR RSHWNPEPEF HLISAFWPSL PSYLDAAYEV NSRDTVFIFK GNEFWAIRGN EVQAGYPRGI HTLGFPPTIR KIDAAVSDKE KKKTYFFAAD KYWRFDENSQ SMEQGFPRLI ADDFPGVEPK 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 metallopeptidase 10 (stromelysin 2) [Homo sapiens]
Official Symbol	MMP10
Synonyms	MMP10; matrix metallopeptidase 10 (stromelysin 2); matrix metalloproteinase 10 (stromelysin 2) , STMY2; stromelysin-2; MMP-10; transin 2; transin-2; stromelysin 2; matrix metalloprotease 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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UniProt ID	P09238
Chromosome Location	11q22.3
Pathway	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;
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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