

Recombinant Human Matrix Metallopeptidase 1

Cat. No. MMP1-407H Lot. No. (See product label)

SPECIFICATION

Species Human

Source Mammalian Cells

Description

Matrix metallopeptidase 1 (interstitial collagenase), also known as MMP1 is an enzyme 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. MMP-1 is the only enzyme able to initiate breakdown of the interstitial collagens, collagen type 1, collagen type 2, and collagen type 3. MMP-1 plays an important role in diverse physiologic processes such as development, tissue morphogenesis, and wound repair. Expression of MMP-1 is a prognostic marker for hematogenous metastasis of colorectal cancer.

State Of Matter Solution.

Purity >95% by SDS Page and analyzed by silver stain.

Endotoxin <1.0 EU/g as determined by the LAL method.

Molecular Weight The predicted molecular weight of Recombinant Human MMP-1 is Mr 52-55 kDa.

Storage -20°C to -70°C.

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GENE INFORMATION

Gene Name	MMP1 matrix metalloproteinase 1 (interstitial collagenase) [Homo sapiens]
Synonyms	MMP1; matrix metalloproteinase 1 (interstitial collagenase); CLG; CLGN; matrix metalloproteinase 1; fibroblast collagenase; matrix metalloproteinase 1; EC 3.4.24.7; Interstitial collagenase; Matrix metalloproteinase-1; MMP-1; Fibroblast collagenase; 22 kDa interstitial collagenase; 27 kDa interstitial collagenase
Gene ID	4312
mRNA Refseq	NM_001145938
Protein Refseq	NP_001139410
MIM	120353
UniProt ID	P03956
Chromosome Location	11q21-q22
Pathway	Bladder cancer; PPAR signaling pathway; Pathways in cancer; Diabetes pathways; Hemostasis; Signaling in Immune system
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding

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