

Recombinant Human Matrix Metallopeptidase 1

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

SPECIFICATION

Product Overview

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.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage -20°C to -70°C.

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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