

Recombinant Human MMP1 Protein, His-tagged

Cat. No. MMP1-568H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP1, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	20-469 aa
Description	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down the interstitial collagens, including types I, II, and III. The gene is part of a cluster of MMP genes on chromosome 11. Mutations in this gene are associated with chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

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Molecular Mass	51.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	MMP1 matrix metalloproteinase 1 (interstitial collagenase) [Homo sapiens]
Official Symbol	MMP1
Synonyms	MMP1; matrix metalloproteinase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1; CLG; CLGN;
Gene ID	4312
mRNA Refseq	NM_002421
Protein Refseq	NP_002412
MIM	120353
UniProt ID	P03956

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