

Recombinant Human matrix metalloproteinase 12 Protein, Tag Free

Cat. No. MMP12-037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The sequence (Accession # NP_002417) corresponding to the catalytic domain (aa 106-267) of Human MMP-12 was expressed in E. coli. The recombinant human MMP-12 was purified from bacterial lysate and refolded using proprietary technique.
Species	Human
Source	E.coli
ProteinLength	106-267aa
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 protease degrades soluble and insoluble elastin. This gene may play a role in aneurysm formation and mutations in this gene are associated with lung function and chronic obstructive pulmonary disease (COPD). This gene is part of a cluster of MMP genes on chromosome 11.
Tag	Non
Form	Solution

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Molecular Mass	18 kDa
Purity	≥95% by SDS-PAGE
Applications	Protease activity
Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	150 mM NaCl, 20 mM Tris-HCl, 10 mM CaCl ₂ , 1 μM ZnCl ₂ , pH=7.5
References	1. Woessner, J. et al. J. Biol. Chem. 263 (1988): 16918-16925 2. Woessner, J. FASEB J. 5 (1991): 2145-2154 3. Hautamaki, D. et al. Science 277 (1997): 2002-2004 4. Dong, Z. et al. Cell 88 (1997): 801-810

GENE INFORMATION

Gene Name	MMP12 matrix metalloproteinase 12 (macrophage elastase) [Homo sapiens (human)]
Official Symbol	MMP12
Synonyms	MMP12; matrix metalloproteinase 12 (macrophage elastase); matrix metalloproteinase 12 (macrophage elastase); macrophage metalloelastase; HME; macrophage elastase; matrix metalloproteinase-12; ME; MME; MMP-12; MGC138506
Gene ID	4321
mRNA Refseq	NM_002426

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Protein Refseq	NP_002417
MIM	601046
UniProt ID	P39900

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