

Recombinant Full Length Human MMP12 Protein, GST-tagged

Cat. No. MMP12-6451HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MMP12 full-length ORF (NP_002417.2, 1 a.a. - 470 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	470 amino acids
Description	Proteins of the matrix metalloproteinase (MMP) 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. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq
Molecular Mass	80.4 kDa
AA Sequence	MKFLILLLLQATASGALPLNSSTSLEKNNVLFGERYLEKFYGLEINKLPVTKMKYSGNL MKEKIQEMQHFLGLKVTGQLDTSTLEMMHAPRCGVPDVHHFREMPGGPVWRKHYI TYRINNYTPDMNREDVDYAIRKAFQVWSNVTPCLKFSKINTGMADILVVFARGAHGDF

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HAFDGKGGILAHAFGPGSGIGGDAHFEDEFWTTTHSGGTNLFLTAVHEIGHSLGLG
HSSDPKAVMFPTYKYVDINTFRLSADDIRGIQSLYGDPKENQRLPNPDNSEPALCDP
NLSFDAVTTVGNKIFFFKDRFFWLKVSEPKTSVNLISLWPTLPSGIEAAYEIEARN
QVFLFKDDKYWLISNLRPEPNYPKSIHSFGFPNFVKKIDAAVFNPFRFYRTYFFVDNQY
WRYDERRQMMDPGYPKLITKNFQGIGPKIDAVFYSKNKYYYFFQGSNQFEYDFLLQ
RITKTLKSNSWFGC

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

MMP12 matrix metalloproteinase 12 (macrophage elastase) [Homo sapiens]

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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