

Recombinant Human MMP1 Protein, GST-tagged

Cat. No. MMP1-5413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MMP1 full-length ORF (NP_002412.1, 1 a.a. - 469 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.[provided by RefSeq]
Molecular Mass	80.4 kDa
AA Sequence	MHSFPPLLLLLFWGVVSHSFPATLETQEQDVDLVQKYLEKYNNLKN DGRQVEKRRN SGPVVEKLKQMQEFGFLKVTGKPD AETLKVMKQPRCGVPDVAQFVLTEGNPRWEQ THLTYRIENYTPDLPRADVDHAIEKAFQLWSNV TPLTFTKVSEGGQADIMISFVRGDHR DNSPFDGPGGNLAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHELGHSL GLSHSTDIGALMYPSTYFSGDVQLAQDDIDG IQAIYGRSQNPVQPIGPQTPKACDSK LTFDAITTIRGEVMFFKDRFYMRTNPFYPEVELNFISVFWPQLPNGLEAAAYEFADRDE

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VRFFKGNKYWAVQGQNVLHGYPKDIYSSFGFPRTVKHIDAALSEENTGKTYFFVAN
KYWRYDEYKRSMDPGYPKMIAHDFPGIGHKVDAVFMKDGFFYFFHGTQYKFDPK
TKRILTLQKANSWFNCRKN

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

MMP1 matrix metallopeptidase 1 (interstitial collagenase) [Homo sapiens]

Official Symbol

MMP1

Synonyms

MMP1; matrix metallopeptidase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1; CLG; CLGN;

Gene ID

4312

mRNA Refseq

NM_001145938

Protein Refseq

NP_001139410

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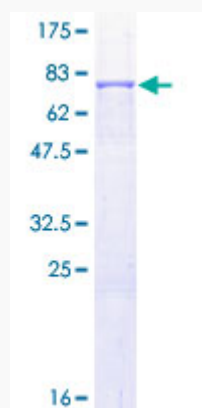
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MIM 120353

UniProt ID P03956

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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