

Recombinant Human MMP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MMP1-4231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MMP1 MS Standard C13 and N15-labeled recombinant protein (NP_002412) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	54 kDa
AA Sequence	MHSFPPLLLLLFWGVVSHSFPATLETQEQDVDLVQKYLEKYNNLKN DGRQVEKRRN SGPVVEKLKQMQEFGGLKVTGKPD AETLKVMKQPRCGVPDVAQFVLTEGNPRWEQ

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THLTYRIENYTPDLPRADVDHAIEKAFQLWSNVTPLTFTKVSEGGQADIMISFVRGDHR
 DNSPFDGPGGNLAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHELGHSL
 GLSHSTDIGALMYPSTFSGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDSK
 LTFDAITTIRGEVMFFKDRFYMRTNPFYPEVELNFISVFWPQLPNGLEAAAYEFADRDE
 VRFFKGNKYWAVQGQNVLHGYPKDIYSSFGFPRTVKHIDAALSEENTGKTYFFVAN
 KYWRYDEYKRSMDPGYPKMIAHDFPGIGHKVDVFMKDGFFYFFHGTQYKFDPK
 TKRILTLQKANSWFNCRKNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MMP1 matrix metalloproteinase 1 \[Homo sapiens \(human\) \]](#)

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](#)

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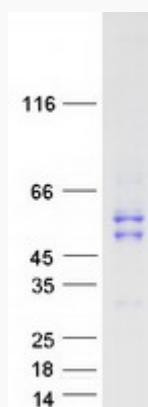
mRNA Refseq [NM_002421](#)

Protein Refseq [NP_002412](#)

MIM [120353](#)

UniProt ID [P03956](#)

SDS-PAGE



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