Recombinant Human MMP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MMP3-780H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MMP3 MS Standard C13 and N15-labeled recombinant protein (NP_002413) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Molecular Mass	54 kDa
AA Sequence	MKSLPILLLLCVAVCSAYPLDGAARGEDTSMNLVQKYLENYYDLEKDVKQFVRRKDS GPVVKKIREMQKFLGLEVTGKLDSDTLEVMRKPRCGVPDVGHFRTFPGIPKWRKTH LTYRIVNYTPDLPKDAVDSAVEKALKVWEEVTPLTFSRLYEGEADIMISFAVREHGDF YPFDGPGNVLAHAYAPGPGINGDAHFDDDEQWTKDTTGTNLFLVAAHEIGHSLGLF

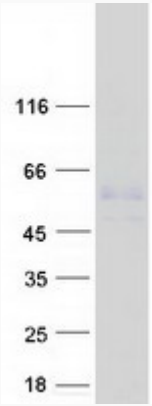
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	HSANTEALMYPLYHSLTDLTRFRLSQDDINGIQSLYGPPPDSPETPLVPTEPVPPEP GTPANCDPALSFDAVSTLRGEILIFKDRHFWRKSLRKLEPELHLISSFWPSLPSGVDA AYEVTSKDLVFIFKGNQFWAIRGNEVRAGYPRGIHTLGFPPTVRKIDAAISDKEKNKT YFFVEDKYWRFDEKRNSMEPGFPKQIAEDFPGIDSKIDAVFEEFGFFYFFTGSSQLE FDPNAKKVTHTLKSNSWLNCTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	MMP3 matrix metallopeptidase 3 [Homo sapiens (human)]
Official Symbol	MMP3
Synonyms	MMP3; matrix metallopeptidase 3 (stromelysin 1, progelatinase); matrix metalloproteinase 3 (stromelysin 1, progelatinase), STMY, STMY1; stromelysin-1; transin-1; proteoglycanase; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, progelatinase); SL-1; STMY; STR1; CHDS6; MMP-3; STMY1; MGC126102; MGC126103; MGC126104;
Gene ID	4314

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mRNA Refseq	NM_002422
Protein Refseq	NP_002413
MIM	185250
UniProt ID	P08254
SDS-PAGE	

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