

# Recombinant Full Length Human MMP3 Protein, GST-tagged

Cat. No. MMP3-6279HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MMP3 full-length ORF ( NP_002413.1, 1 a.a. - 477 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	477 amino acids
<b>Description</b>	<p>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 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. [provided by RefSeq</p>
<b>Molecular Mass</b>	80.4 kDa
<b>AA Sequence</b>	<p>MKSLPILLLLLCVAVCSAYPLDGAARGEDTSMNLVQKYLENYYDLKKDVKQFVRRKDS            GPVVKKIREMQKFLGLEVTGKLDSDTLEVMRKPRCGVPDVGHFRTFFPGIPKWRKTH            LTYRIVNYTPDLPKDAVDSAVEKALKVWEEVTPLTFSRLYEGEADIMISFAVREHGDF            YPFDGPGNVLAHAYAPGPGINGDAHFDDDEQWTKDTTGTNLFLVAAHEIGHSLGLF</p>

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HSANTEALMYPLYHSLTDLTRFRLSQDDINGIQSLYGPPDSPETPLVPTEPVPPEP  
 GTPANCDPALSFDAVSTLRGEILIFKDRHFWRKSLRKLEPELHLISSFWPSLPSGVDA  
 AYEVTSKDLVFIFKGNQFWAIRGNEVRAGYPRGIHTLGFPTVRKIDAAISDKEKNKT  
 YFFVEDKYWRFDEKRNSMEPGFPKQIAEDFPGIDSKIDAVFEEFGFFYFFTGSSQLE  
 FDPNAKKVTHTLKSNSWLNC

**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**  
 MMP3 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [ Homo sapiens ]

**Official Symbol**  
 MMP3

**Synonyms**  
 MMP3; matrix metalloproteinase 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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<b>mRNA Refseq</b>	NM_002422
<b>Protein Refseq</b>	NP_002413
<b>MIM</b>	185250
<b>UniProt ID</b>	P08254

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