

## Product datasheet for **TP723321**

### **MMP3 (NM\_002422) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human matrix metalloproteinase 3 (stromelysin 1, progelatinase) (MMP3).
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MRTFPGIPKW RKTHLYRIV NYTPDLPKDA VDSAVEKALK VWEVTPPLTF SRLYEGEADI MISFAVREHG DFYFPDGPNG VLAHAYAPGP GINGDAHFDQ DEQWTKDITG TNLFLVAAHE IGHSLGLFHS ANTEALMYPL YHSLTDLTRF RLSQDDINGI QSLYGGPPDS PETPLVPTPEP VPPEPGTPAN CDPALSFDAV STLRGEILIF KDRHFWRKSL RKLEPELHLI SSFWPSLPSG VDAAYEVTSK DLVFIFKGNQ FWAIRGNEVR AGYPRGIHTL GFPPTVRKID AAISDKEKNK TYFFVEDKYW RFDEKRNSME PGFPKQIAED FPGIDSKIDA VFEFGFFYF FTGSSQLEFD PNAKKVTHL KSNLWLNLC
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	42.8 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Bioactivity:</b>	MMP-3 activity was measured by its ability to cleave a chromogenic peptide MMP-3 substrate at room temperature. At a MMP-3 concentration of 2.5 µg/mL, 50% cleavage was achieved at an incubation time of approximately 75 minutes.
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_002413</a>
<b>Locus ID:</b>	4314
<b>UniProt ID:</b>	<a href="#">P08254</a>
<b>RefSeq Size:</b>	1828
<b>Cytogenetics:</b>	11q22.2



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RefSeq ORF: 1431

Synonyms: CHDS6; MMP-3; SL-1; STMY; STMY1; STR1

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protease

### Product images:

