

## Recombinant Human MMP13 protein, T7/His-tagged

Cat. No. MMP13-92H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MMP13 cDNA (104 – 471 aa, derived from BC074807), fused with T7-His-TEV cleavage site Tag (29aa) at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	104-471 a.a.
<b>Form</b>	0.50 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
<b>AA Sequence</b>	MASMTGGQQMGRGRGHHHHHHENLYFQGGEFYNVFPRTLKWSKMNLTYRIVNYTPD MTHSEVEKAFKKAFFVWSDVT PLNFTRLHDGIADIMISFGIKEHGDFYFPDGPSSGLL AHAFFPPGPNYGGDAHFDDDETWTSSSKGYNFLVAAHEF GHSLGLDHSKDPGALM FPIYTYTGKSHFMLPDDDDVQGIQSLYGPGEDEPNPKHPKTPDKCDPSLSLDAITSLR GE TMIFKDRFFWRLHPQQVDAELFLTKSFWPELPNRIDAAYEHPSHDLIFRGRKF WALNGYDILEGYPKKISELG LPKEVKKISA AVHFEDTGKLLFSGNQVWRYDDTNHI MDKDYPRLIEEDFPGIGDKVDAVYEKNGYIYFFNGPIQ FEYSIWSNRIVRVMPANSIL WC
<b>Purity</b>	>90% by SDS-PAGE
<b>Applications</b>	1. May be used for in vitro activated MMP13 mediated extracellular matrix protein signal regulation study for chondrocytes cell differentiation regulation or tumor cell

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metastasis with this protein as either coating matrix protein or soluble factor.2. May be used as MMP13 protein-protein interaction assay.3. As enzymatic substrate for various proteases.4. As potential cancer diagnostic biomarker protein.5. As antigen for specific antibody production.

**Storage**

Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

## GENE INFORMATION

**Gene Name**

MMP13 matrix metalloproteinase 13 (collagenase 3) [ Homo sapiens ]

**Official Symbol**

MMP13

**Synonyms**

MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1;

**Gene ID**

4322

**mRNA Refseq**

NM\_002427

**Protein Refseq**

NP\_002418

**MIM**

600108

**UniProt ID**

P45452

**Chromosome Location**

11q22.3

**Pathway**

Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of

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the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;

**Function**

calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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