

Recombinant Human MMP13 protein, T7/His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	104-471 a.a.
Form	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.
AA Sequence	MASMTGGQQMGRGRHHHHHHENLYFQGGEFYNVFPRTLKWSKMNLTYRIVNYTPD MTHSEVEKAFKKAFKVWSDVT PLNFTRLHDGIADIMISFGIKEHGDFYPFDGPSGLL AHAFPPGPNYGGDAHFDDDETWTSSSKGYNFLVAAHEF GHSLGLDHSKDPGALM FPIYTYTGKSHFMLPDDDDVQGIQSLYGPGDEDPNPKHPKTPDKCDPSLSLDAITSLR GE TMIFKDRFFWRLHPQQVDAELFLTKSFWPELPNRIDAAYEHPSHDLIFIFRGRKF WALNGYDILEGYPKKISELG LPKEVKKISA AVHFEDTGKTL LFSGNQVWRYDDTNHI MDKDYPRLIEEDFPGIGDKVDAVYEKNGYIYFFNGPIQ FEYSIWSNRIVRVMPANSIL WC
Purity	>90% by SDS-PAGE
Applications	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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