

Recombinant Human MMP1 protein, T7/His-tagged

Cat. No. MMP1-91H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MMP1 cDNA (100 – 469 aa, derived from BC013875), fused with T7-His-TEV cleavage site Tag (29aa) at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	100-469 a.a.
Form	0.40 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	MASMTGGQQMGRGRHHHHHHENLYFQGGEFFVLTEGNPRWEQTHLTYRIENYTPD LPRADVDDHAIEKAFQLWSNVT PLTFTKVSEGQADIMISFVRGDHRDNSPFDGPGGN LAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHEL GHSLGLSHSTDIGAL MYPSYTFSGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDSKLTFDAITTIRGE VM FFKDRFYMRTNPFYPEVELNFISVFWPQLPNGLEAAAYEFADRDEVRRFFKGNKY WAVQGQNVLHGYPKDIYSSFGF PRTVKHIDAALSEENTGKTYFFVANKYWRYDEYK RSMDPGYPKMIAHDFPGIGHKVDAVFMKDGGFFYFFHGRQY KFDPKTKRILTLQKA NSWFNCRKN
Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro activated MMP1 mediated extracellular matrix protein signal regulation study for various cell differentiation regulation with this protein as

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either coating matrix protein or soluble factor.2. May be used as MMP1 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 [MMP1 matrix metalloproteinase 1 \(interstitial collagenase\) \[Homo sapiens \]](#)

Official Symbol [MMP1](#)

Synonyms MMP1; matrix metalloproteinase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1; CLG; CLGN;

Gene ID [4312](#)

mRNA Refseq [NM_001145938](#)

Protein Refseq [NP_001139410](#)

MIM [120353](#)

UniProt ID [P03956](#)

Chromosome Location 11q21-q22

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Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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