

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 | MASMTGGQQMGRGHHHHHHENLYFQGGEFFVLTEGNPRWEQTHLTYRIENYTPD LPRADV DHAIEKAFQLWSNVT PLTFTKV/SEGQADIMISFVRGDHRDNSPFDGPGGN LAHAFQPGPGIGGDAHFDEDERWTNNFREYNLHRVAAHEL GHSLGLSHSTDIGAL MYPSTYFSGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDSKLTFDAITIRGE VM FFKDRFYMRTNPFYPEVELNFISVFWPQLPNGLEAAAYEFADRDEVRFKGNKY WAVQGQNVLHGYPKDIYSSFGF PRTVKHIDAALSEENTGKTYFFVANKYWRYDEYK RSMDPGYPKMIAHDFPGIGHKVDVAFMKDGGFFYFFHGTRQY 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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