

MMP1 active protein

MMP1 protein

CATALOG #
AAA75571HOST
Human

PRODUCT SYNONYMS

MMP1; MMP1 protein; Matrix metalloproteinase-1; MMP-1 protein; Fibroblast collagenase; MMP-1; interstitial collagenase protein; MMP 1 protein; MMP 1; MMP1 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 90% pure
Form/Format	Supplied as a lyophilized powder.
Concentration	10 ug/vial; lyophilized (varies by lot)
Sequence	Region of MM P1 protein corresponds to amino acids MFVLTE GNPRWEQTHL TYRIENYTPD LPRADVDAI EKAFLWSNV TPLTFTKVSE GQADIMISFV RGDHRDNSPF DGPGGNLAHA FQPGPGIGGD AHFEDERWT NNFREYNLHR VAAHELGHSL GLSHSTDIGA LMYPSTYFSG DVQLAQDDID GIQAIYGRSQ NPVQPIGPQT PKACDSKLT F DAITTIRGEV MFFKDRFYMR TNPFYPEVEL NFISVFWPQL PNGLEAAYEF ADRDEVRFK GNKYWAVQGQ NVLHGYPKDI YSSFGFPRTV KHIDAALSEE NTGKTYFFVA NKYWRYDEYK RSMDPGYPKM IAHDFPGIGH KVDVAFMKDG FFYFFHGTQ YKFDPKTKRI LTLQANSWF NCRKN.
Sequence Length	550
Protein Type	Recombinant
Biological Significance	Matrix metalloproteinases (MMPs) are a family of endoproteases that require zinc and calcium for expressing catalytic activity. These enzymes play a central role in the maintenance and remodeling of the extracellular matrix. Elevated expression of their activity, caused either by up-regulation of their expression or down-regulation of their cognate inhibitors, has been implicated in various degenerative disorders, including arthritis, cardiovascular disease, skeletal growth-plate disorders, and cancer metastasis. MMP-1 is a secreted collagenase with specificity toward Type I, II, III, VII, and X collagens.
Bioactivity	MMP-1 activity was measured by its ability to cleave a chromogenic peptide MMP-1 substrate at room temperature. At an MMP-1 concentration of 2.5 ug/ml, 50% cleavage was achieved at an incubation time of approximately 25 minutes
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MMP1 active protein	Purified recombinant Human MMP1 protein
Product Categories/Family for MMP1 active protein	Proteases ; Inhibitors ; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	255958234
NCBI GeneID	657261
NCBI Accession #	NP_001157647.1
NCBI GenBank Nucleotide #	NM_001164175.1
Molecular Weight	42.7 kDa
NCBI Official Full Name	matrix metalloproteinase 1 isoform 2
NCBI Official Symbol	Mmp-1
NCBI Official Synonym Symbols	Mmp1
NCBI Protein Information	matrix metalloproteinase 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/mmp1/75571>