

MMP-1 active protein

Human MMP-1

CATALOG #
AAA79296HOST
E Coli

PRODUCT SYNONYMS

MMP-1; Human MMP-1; Matrix metalloproteinase-1; fibroblast collagenase; interstitial collagenase; MMP-1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 98% by SDS-PAGE & HPLC analysis
Form/Format	Lyophilized
Sequence	MFVLTEGNPR WEQTHLTYRI ENYTPDLPR DVDHAIEKAF QLWSNVTPLT FTKVSEGQAD IMISFVRGDH RDNSPFDGPG GNLAHAFQPG PGIGGDAHFD EDERWTNNFR EYNLHRVA AH ELGHSGLSLH STDIGALMYP SYTFSGDVQL AQDDIDGIQA IYGRSQNPVQ PIGPQTPKAC DSKLTFDAIT TIRGEVMFFK DRFYMRNPNF YPEVELNFIS VFWPQLPNGL EAAYEFADRD EVRFFKG NKY WAVQGQNV LH GYPKDIYSSF GFPRTVKHID AALSEENTGK TYFFVANKYW RYDEYKRSMD PGYPMIAHD FPGIGHKVDA VFMKDGFFYF FHGTRQYKFD PKTKRILTQ KANSWFNCRK N
Sequence Length	469
Endotoxin Level	<0.1 ng/ug of protein (<1 EU/ug)
Length (aa)	371
Biological Activity	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
Reconstitution	Reconstitute in water to a concentration of 0.5-1.0mg/ml. Do not vortex. Note: Slow to dissolve. Gently shake the solution for about 10 minutes for better solubility. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and to store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C for 3 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for MMP-1 active protein	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. Recombinant human MMP-1 is a 42.7 kDa protein containing the entire catalytic N-terminal domain and the C-terminal domain which is involved in substrate specificity and in binding TIMP-1.
Product Categories/Family for MMP-1 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505215
NCBI GeneID	4312
NCBI Accession #	NP_002412.1
NCBI GenBank Nucleotide #	NM_002421.3
UniProt Accession #	P03956; P08156
Molecular Weight	42.7 kDa
NCBI Official Full Name	interstitial collagenase isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 1 (interstitial collagenase)
NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	CLG; CLGN
NCBI Protein Information	interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1
UniProt Protein Name	Interstitial collagenase
UniProt Gene Name	MMP1
UniProt Synonym Gene Names	CLG; MMP-1
UniProt Entry Name	MMP1_HUMAN

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/e-coli-active-protein/mmp-1/79296>