

MMP1 recombinant protein

Recombinant Human MMP1 Protein, Recombinant Human Matrix Metalloproteinase 1(MMP1) Protein

CATALOG # AAA55955	HOST E. coli AA 101-469 (P03956).	APPLICATIONS ELISA, Western Blot
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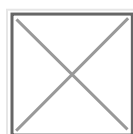
PRODUCT SYNONYMS

MMP1; Recombinant Human MMP1 Protein; Recombinant Human Matrix Metalloproteinase 1(MMP1) Protein; CLGN; CLG1; Collagenase; Interstitial Collagenase; Vertebrate Collagenase; Fibroblast Collagenase; MMP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli AA 101-469 (P03956).
Purity/Purification	> 90 % as determined by SDS-PAGE.
Form/Format	In 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol.
Concentration	0.8 mg/mL (varies by lot)
Sequence Positions	101-469
Sequence	VLTEGNPRWE QTHLTURIEN YTPDLPRADV DHAIEKAFQL WSNVTPLTFT KVSEGGADIM ISFVRGDHRD NSPFDGPGGN LAHAFQPGPG IGGDAHFDDE ERWTNNFREY NLHRVAAHEL GHSLGLSHST DIGALMYP SY TFSGDVQLAQ DDIDGIAIY GRSQNPVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR FYMRTNPFYP EVELNFISVF WPQLPNGLEA AYEAFADRDEV RFFKGKNKYWA VQGQNVLHGY PKDIYSSFGF PRTVKHIDAA LSEENTGKTY FFVANKYWRY DEYKRSMDPG YPKMIAHDFP GIGHKVDVAF MKDGFFYFFH GTRQYKFDPK TKRILTQKA NSWFNCRKN
Sequence Length	469
Applicable Applications for MMP1 recombinant protein	ELISA, WB (Western Blot)
Source	Human
Predicted Molecular Mass	Predicted MW: 46.5 kDa Observed MW: 46.5 kDa
Protein Residues	with N-terminal 6×His-tag.
Usage	MMP1 Protein - Centrifuge the standard vial at 6000-10000rpm for 30s.
Preparation and Storage	Store it under sterile conditions at -20°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. **Avoid repeated freeze-thaw cycles.** Stability: The recombinant protein is stable for up to 6 months from date of receipt at -80°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MMP1 recombinant protein	MMP-1 is produced by fibroblasts, chondrocytes, macrophages, endothelial cells, and osteoblasts. It is induced by the pro-inflammatory cytokines IL-1 and TNF-alpha, various growth factors such as EGF, PDGF, FGF basic, and Oncostatin M, chemical agents such as cAMP and phorbol esters and events occurring at the cell surface such as cell fusion and phagocytosis. MMP-1 plays a significant role in the degradation of different types of collagen in extracellular matrix remodeling. It is implicated in a variety of processes involving collagen degradation such as emphysema, atherosclerosis, rheumatoid and osteoarthritis, periodontal and respiratory disease, angiogenesis and tumorigenesis, tissue remodeling and wound healing, and inflammatory bowel disease.
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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
NCBI Official Full Name	interstitial collagenase isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 1
NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	CLG; CLGN
NCBI Protein Information	interstitial collagenase
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.