

Active Recombinant Human MMP2 protein

Cat. No. MMP2-201H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP2 was expressed in E. coli.
Species	Human
Source	E.coli
Description	MMP-2 belongs to a family of endoproteases which need calcium and zinc in order to exert their catalytic capability (extracellular matrix remodeling). The elevated expression of these enzymes has been linked to many degenerative disorders, such as arthritis, cancer metastasis and skeletal growth-plate disorders. It has been shown that MMP-2 associates with many connective tissue cells as well as neutrophils, macrophages and monocytes.
Form	Supplied as a 0.2 µm filtered solution in Tris, CaCl ₂ , NaCl and Brij35
Bio-activity	The ED (50) was determined by the dose-dependent proliferation of immortalized human pulmonary fibroblasts cells and was found to be <0.05ng/mL.
Molecular Mass	62.0 kDa
Endotoxin	<1.0 EU/µg of recombinant protein as determined by the LAL method.
Purity	95%
Applications	Cell Assay

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Storage

The lyophilized protein is stable for at least one year from date of receipt at -70 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at 2 centigrade- 8 centigrade for one month, or at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	MMP2 matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) [Homo sapiens]
Official Symbol	MMP2
Synonyms	MMP2; matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); CLG4, CLG4A, matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase) , matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); 72 kDa type IV collagenase; TBE 1; MMP-2; gelatinase A; 72 kDa gelatinase; collagenase type IV-A; neutrophil gelatinase; matrix metalloproteinase-2; matrix metalloproteinase-II; CLG4; MONA; CLG4A; TBE-1; MMP-II;
Gene ID	4313
mRNA Refseq	NM_001127891
Protein Refseq	NP_001121363
MIM	120360
UniProt ID	P08253
Chromosome	16q13-q21

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Location	
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Diabetes pathways, organism-specific biosystem;
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;
	