

Recombinant Human MMP2

Cat. No. MMP2-169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	yeast
Overview	Recombinant Human MMP-2 (catalytic domain) was expressed in yeast and used for Studying enzyme kinetics, cleaving target substrates, and screening for inhibitors.
Description	Active recombinant matrix metalloproteinase-2 (MMP-2, gelatinase A, 72kDa type IV collagenase) cloned from human cDNA. The enzyme consists of residues Tyr110-Asp452 (NM_004530), which comprises the catalytic/fibronectin domain of human MMP-2, with a C-terminal purification tag. This represents a naturally occurring active form of MMP-2 which lacks the C-terminal hemopexin domain. MMPs lacking this domain cannot cleave native collagens; however, activity toward other targets such as gelatin, casein, or peptide substrates is unaffected.
Predicted MolecularMass	40 kDa
Purity	>95% by SDS-PAGE.
Long Term Storage	-80°C
Note	When stored under the above conditions, this enzyme is stable at the concentration supplied, in its current storage buffer. Procedures such as dilution of the enzyme

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followed by refreezing could lead to loss of activity.

OfficialSymbol MMP2

GENE INFORMATION

Gene Name MMP2 matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) [Homo sapiens]

Synonyms MMP 2; Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); 72 kDa gelatinase; 72kD type IV collagenase; CLG 4; CLG 4A; CLG4; CLG4A; Collagenase Type 4 alpha; Collagenase type IV A; Gelatinase A; Gelatinase alpha; Gelatinase neutrophil; Matrix metalloproteinase 2 gelatinase A 72kDa gelatinase 72kDa type IV collagenase; Matrix Metalloproteinase 2; Matrix metalloproteinase II; Matrix metalloproteinase-2; MMP II; MMP-2; MMP2; MONA; Neutrophil gelatinase; PEX; TBE 1; TBE-1; MMP-II; collagenase type IV-A; matrix metalloproteinase-II; EC 3.4.24.24; EC 3.4.24

Gene ID 4313

mRNA Refseq NM_004530

Protein Refseq NP_004521

MIM 120360

UniProt ID P08253

Chromosome Location 16q13-q21

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Pathway	ATF-2 transcription factor network; Angiopoietin receptor Tie2-mediated signaling; Bladder cancer; Diabetes pathways; Disease; GnRH signaling pathway; LPA receptor mediated events; Osteopontin-mediated events; amb2 Integrin signaling; Syndecan-2-mediated signaling events
Function	metalloendopeptidase activity; serine-type endopeptidase activity; zinc ion binding

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