

## Recombinant Human MMP2

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	yeast
<b>Overview</b>	Recombinant Human MMP-2 (catalytic domain) was expressed in yeast and used for Studying enzyme kinetics, cleaving target substrates, and screening for inhibitors.
<b>Description</b>	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.
<b>Predicted MolecularMass</b>	40 kDa
<b>Purity</b>	>95% by SDS-PAGE.
<b>Long Term Storage</b>	-80°C
<b>Note</b>	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 followed by refreezing could lead to loss of activity.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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

**Pathway** ATF-2 transcription factor network; Angiopoietin receptor Tie2-mediated signaling; Bladder cancer; Diabetes pathways; Disease; GnRH signaling pathway; LPA receptor

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



mediated events; Osteopontin-mediated events; amb2 Integrin signaling; Syndecan-2-mediated signaling events

**Function**

metalloendopeptidase activity; serine-type endopeptidase activity; zinc ion binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA