

## MMP-9 Protein, Human (601a.a, P. pastoris, His)

<b>Cat. No.:</b>	HY-P700572
<b>Synonyms:</b>	rHuMatrix metalloproteinase-9/MMP-9, His; Matrix metalloproteinase-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; MMP9
<b>Species:</b>	Human
<b>Source:</b>	P. pastoris
<b>Accession:</b>	P14780 (F107-D707)
<b>Gene ID:</b>	4318
<b>Molecular Weight:</b>	68.6 kDa

### PROPERTIES

#### AA Sequence

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F Q T F E G D L K W   H H H N I T Y W I Q   N Y S E D L P R A V   I D D A F A R A F A
L W S A V T P L T F   T R V Y S R D A D I   V I Q F G V A E H G   D G Y P F D G K D G
L L A H A F P P G P   G I Q G D A H F D D   D E L W S L G K G V   V V P T R F G N A D
G A A C H F P F I F   E G R S Y S A C T T   D G R S D G L P W C   S T T A N Y D T D D
R F G F C P S E R L   Y T Q D G N A D G K   P C Q F P F I F Q G   Q S Y S A C T T D G
R S D G Y R W C A T   T A N Y D R D K L F   G F C P T R A D S T   V M G G N S A G E L
C V F P F T F L G K   E Y S T C T S E G R   G D G R L W C A T T   S N F D S D K K W G
F C P D Q G Y S L F   L V A A H E F G H A   L G L D H S S V P E   A L M Y P M Y R F T
E G P P L H K D D V   N G I R H L Y G P R   P E P E P R P P T T   T T P Q P T A P P T
V C P T G P P T V H   P S E R P T A G P T   G P P S A G P T G P   P T A G P S T A T T
V P L S P V D D A C   N V N I F D A I A E   I G N Q L Y L F K D   G K Y W R F S E G R
G S R P Q G P F L I   A D K W P A L P R K   L D S V F E E R L S   K K L F F F S G R Q
V W V Y T G A S V L   G P R R L D K L G L   G A D V A Q V T G A   L R S G R G K M L L
F S G R R L W R F D   V K A Q M V D P R S   A S E V D R M F P G   V P L D T H D V F Q
Y R E K A Y F C Q D   R F Y W R V S S R S   E L N Q V D Q V G Y   V T Y D I L Q C P E
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#### Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

MMP-9 protein, a matrix metalloproteinase, plays a crucial role in the localized breakdown of the extracellular matrix and facilitates leukocyte migration. It has been suggested that MMP-9 may also be involved in bone osteoclastic resorption. Additionally, MMP-9 cleaves KISS1 at a Gly-|-Leu bond and NINJ1 to generate the secreted form of ninjurin-1. Furthermore, it is known to cleave type IV and type V collagen, resulting in the production of large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. While MMP-9 degrades fibronectin, it does not have an impact on laminin or Pz-peptide.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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