

## MMP-8 Protein, Human (HEK293)

<b>Cat. No.:</b>	HY-P73298
<b>Synonyms:</b>	Neutrophil collagenase; MMP-8; PMNL-CL; CLG1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P22894 (F21-G467)
<b>Gene ID:</b>	4317
<b>Molecular Weight:</b>	Approximately 65 kDa

### PROPERTIES

#### AA Sequence

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

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

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

R K N G T N V I V E
G V P D S G G F M L
A I K D A F E L W S
P F D G P N G I L A
F L V A A H E F G H
D D I D G I Q A I Y
R G E I L F F K D R
A Y E D F D R D L I
S S V Q A I D A A V
S I S G A F P G I E
V T R V A R G N K W
  
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**Biological Activity** Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH<sub>2</sub> and the specific activity is > 250 pmoles/min/μg.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

**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-8, also referred to as matrix metalloproteinase-8 or collagenase-2, is recognized for its enzymatic capabilities and specifically its ability to break down fibrillar type I, II, and III collagens. This enzymatic activity suggests that MMP-8 plays a significant role in the remodeling and turnover of collagen-rich tissues, such as connective tissues, cartilage, and bone. By degrading these fibrillar collagens, MMP-8 can contribute to processes such as tissue remodeling, wound healing, and inflammation resolution. Understanding the precise functions and regulation of MMP-8 can provide valuable insights into its involvement in collagen metabolism and tissue remodeling, potentially offering therapeutic opportunities for conditions characterized by abnormal collagen degradation or accumulation.

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

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