MMP-8 Protein, Human (HEK293, His)

Cat. No.:	HY-P72507
Synonyms:	Neutrophil collagenase; Matrix metalloproteinase-8; MMP-8; PMNL collagenase; PMNL-CL; MMP8; CLG1
Species:	Human
Source:	HEK293
Accession:	P22894 (F21-G467)
Gene ID:	4317
Molecular Weight:	approximately 64.09 kDa

PROPERTIES

AA Sequence	F P V S S K E K N T K T V Q D Y L E K F Y Q L P S N Q Y Q S T R K N G T N V I V E K L K E M Q R F F G L N V T G K P N E E T L D M M K K P R C G V P D S G G F M L T P G N P K W E R T N L T Y R I R N Y T P Q L S E A E V E R A I K D A F E L W S V A S P L I F T R I S Q G E A D I N I A F Y Q R D H G D N S P F D G P N G I L A H A F Q P G Q G I G G D A H F D A E E T W T N T S A N Y N L F L V A A H E F G H S L G L A H S S D P G A L M Y P N Y A F R E T S N Y S L P Q D D I D G I Q A I Y G L S S N P I Q P T G P S T P K P C D P S L T F D A I T T L R G E I L F F K D R Y F W R R H P Q L Q R V E M N F I S L F W P S L P T G I Q A A Y E D F D R D L I F L F K G N Q Y W A L S G Y D I L Q G Y P K D I S N Y G F P S S V Q A I D A A V F Y R S K T Y F F V N D Q F W R Y D N Q R Q F M E P G Y P K S I S G A F P G I E S K V D A V F Q Q E H F F H V F S G P R Y Y A F D L I A Q R V T R V A R G N K W L N C R Y G
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is 8505.224 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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.

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.

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