

MMP-7 Protein, Rat (*P. pastoris*, His)

Cat. No.:	HY-P700574
Synonyms:	Matrilysin; Matrin; Matrix metalloproteinase-7; Pump-1 protease; MPSL1; PUMP1
Species:	Rat
Source:	<i>P. pastoris</i>
Accession:	P50280 (F98-L267)
Gene ID:	25335
Molecular Weight:	30 kDa

PROPERTIES

AA Sequence	<p>F S L M P N S P K W H S R T V T Y R I V S Y T T D L P R F L V D Q I V K R A L R</p> <p>M W S M Q I P L N F K R V S W G T A D I I I G F A R G D H G D N F P F D G P G N</p> <p>T L G H A F A P G P G L G G D A H F D K D E Y W T D G E D S G V N F L F V A T H</p> <p>E L G H S L G L G H S S V P S S V M Y P T Y Q G D H S E D F S L T K D D I A G I</p> <p>Q K L Y G K R N K L</p>
Biological Activity	Measured by its ability to cleave 60µM fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH ₂ . The specific activity is 223.769 pmol/min/µg, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 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 ₂ 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.

DESCRIPTION

Background	The MMP-7 protein serves as an enzyme with the capacity to degrade various substrates, including casein, gelatins of types I, III, IV, and V, and fibronectin. This multifunctional matrix metalloproteinase exhibits proteolytic activity that contributes to tissue remodeling and turnover. Additionally, MMP-7 plays a role in the activation of procollagenase, reflecting its involvement in the regulation of collagen metabolism. The diverse substrate specificity of MMP-7 highlights its importance in modulating the extracellular matrix and influencing cellular processes associated with tissue homeostasis, repair, and
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development.

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

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