

## MMP-26 Protein, Human

Cat. No.:	HY-P76498
Synonyms:	Matrix metalloproteinase-26; MMP-26; Endometase; Matrilysin-2
Species:	Human
Source:	E. coli
Accession:	Q9NRE1 (T90-P261)
Gene ID:	56547
Molecular Weight:	Approximately 19 kDa.

### PROPERTIES

AA Sequence	<p> T S I S P G R C K W    N K H T L T Y R I I    N Y P H D M K P S A    V K D S I Y N A V S  I W S N V T P L I F    Q Q V Q N G D A D I    K V S F W Q W A H E    D G W P F D G P G G  I L G H A F L P N S    G N P G V V H F D K    N E H W S A S D T G    Y N L F L V A T H E  I G H S L G L Q H S    G N Q S S I M Y P T    Y W Y H D P R T F Q    L S A D D I Q R I Q  H L Y G E K C S S D    I P </p>
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Mca-Pro-Leu-Gly-Leu-Dpa-Ala-Arg-NH <sub>2</sub> and the specific activity is > 60 pmol/min/μg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 2 mM CaCl <sub>2</sub> , pH 7.8. 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.

### DESCRIPTION

Background	The MMP-26 protein demonstrates a broad substrate specificity, as it may hydrolyze collagen type IV, fibronectin, fibrinogen, beta-casein, type I gelatin, and alpha-1 proteinase inhibitor. Its capacity to enzymatically cleave these diverse substrates indicates its potential involvement in the degradation and remodeling of various extracellular matrix components. Additionally, MMP-26 is capable of activating progelatinase B, suggesting a regulatory role in modulating the
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activity of other matrix metalloproteinases. The diverse substrate hydrolysis and activation capabilities of MMP-26 underscore its significance in the dynamic processes of tissue remodeling and homeostasis within the extracellular matrix.

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

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