

MMP-19 Protein, Human

Cat. No.:	HY-P75929
Synonyms:	Matrix metalloproteinase-19; MMP-19; MMP-18; RASI
Species:	Human
Source:	E. coli
Accession:	Q99542 (L101-G256)
Gene ID:	4327
Molecular Weight:	Approximately 18 kDa

PROPERTIES

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 20 mM Tris, 100 mM NaCl, 0.5 M Arg, 5 mM CaCl ₂ , 0.03% Brij35, 50 µM ZnCl ₂ , 1/0.1 mM GSH/GSSG, pH 8.0. 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 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	MMP-19 (Matrix Metalloproteinase-19) is an endopeptidase with a crucial role in degrading various components of the extracellular matrix, including aggrecan and cartilage oligomeric matrix protein (COMP), particularly during development, haemostasis, and pathological conditions such as arthritic diseases. Additionally, MMP-19 may contribute to neovascularization or angiogenesis, suggesting its involvement in processes associated with new blood vessel formation. The enzyme exhibits a broad substrate specificity, hydrolyzing key extracellular matrix proteins, such as collagen type IV, laminin, nidogen, nasrin-C isoform, fibronectin, and type I gelatin. MMP-19's ability to cleave diverse substrates underscores its significance in tissue remodeling and repair, as well as its potential implication in pathological conditions characterized by aberrant extracellular matrix turnover. (
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Caution: Product has not been fully validated for medical applications. For research use only.

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