

## MMP-9 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78492
Synonyms:	MMP-9; GELB; CLG4B; MANDP2; Gelatinase B
Species:	Human
Source:	HEK293
Accession:	P14780 (A20-D707)
Gene ID:	4318
Molecular Weight:	85-100 kDa

### PROPERTIES

Biological Activity	Immobilized Human MMP-9, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC <sub>50</sub> of 17.4ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant 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	MMP-9 protein, a matrix metalloproteinase, plays a crucial role in the localized breakdown of the extracellular matrix and facilitates leukocyte migration. It has been suggested that MMP-9 may also be involved in bone osteoclastic resorption. Additionally, MMP-9 cleaves KiSS1 at a Gly-[Leu bond and NINJ1 to generate the secreted form of ninjurin-1. Furthermore, it is known to cleave type IV and type V collagen, resulting in the production of large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. While MMP-9 degrades fibronectin, it does not have an impact on laminin or Pz-peptide.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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