

MMP-9 Protein, Mouse (HEK293)

Cat. No.:	HY-P73807
Synonyms:	Matrix metalloproteinase-9; MMP-9; Gelatinase B; GELB; CLG4B
Species:	Mouse
Source:	HEK293
Accession:	P41245 (P21-P730)
Gene ID:	17395
Molecular Weight:	Approximately 100 kDa

PROPERTIES

AA Sequence

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PYQRQPTFVV    FPKDLKTSNL    TDTQLAEAYL    YRYGYTRAAQ
MMGEKQSLRP    ALLMLQKQLS    LPQTGELDSQ    TLKAIIRTPRC
GVPDVGRFQT    FKGLKWDHNN    IYWIQNYSE    DLPRDMIDDA
FARAFVWGE     VAPLTFTRVY    GPEADIVIQF    GVAEHGDGYP
FDGKDGLLAH    AFPPGAGVQG    DAHFDDDELW    SLGKGVVIPT
YYGNSNGAPC    HFPFTFEGRS    YSACTTDGRN    DGTPWCSTTA
DYDKDGKFGF    CPSERLYTEH    GNGEGKPCVF    PFI FEGRSYS
ACTTKGRSDG    YRWCATTANY    DQDKLYGFCP    TRVDATVVGG
NSAGELCVFP    FVFLGKQYSS    CTSDGRRDGR    LWCATTSNFD
TDKKGWFCPD    QGYSLFLVAA    HEFGHALGLD    HSSVPEALMY
PLYSYLEGFP    LNKDDIDGIQ    YLYGRGSKPD    PRPPATTTTE
PQPTAPPTMC    PTIPPTAYPT    VGPTVGPTGA    PSPGPTSSPS
PGPTGAPSPG    PTAAPTAGSS    EASTESLSPA    DNPCNVDVFD
AIAEIQGALH    FFKDGYWKF    LNHRGSP LQG    PFLTARTWPA
LPATLDSAFE    DPQTKRVFFF    SGRQM WVYTG    KTVLGRSLD
KLG LGPEVTH    VSGLLPRRPG    KALLFSKGRV    WRFDLKSQKV
DPQSVIRVDK    EFSGVPWN SH    DIFQYQDKAY    FCHGKFFWRV
SFQNEVNKVD    PEVNQVDDVG    YVTYDLLQCP
  
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Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is 4540.7461 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.
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-9 Protein, a matrix metalloproteinase, plays a crucial role in local proteolysis of the extracellular matrix and facilitates leukocyte migration. It could be involved in bone osteoclastic resorption and cleaves KiSS1 at a specific Gly-|-Leu bond. Additionally, MMP-9 cleaves NINJ1 to generate the Secreted ninjurin-1 form and processes type IV and type V collagen into large C-terminal three-quarter fragments and shorter N-terminal one-quarter fragments. While degrading fibronectin, MMP-9 does not impact laminin or Pz-peptide, showcasing its selectivity in substrate cleavage.

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

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