

## MMP-9 Protein, Mouse (HEK293, C-His)

<b>Cat. No.:</b>	HY-P70351A
<b>Synonyms:</b>	rMuMatrix metalloproteinase-9/MMP-9, His; Matrix metalloproteinase-9; MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P41245 (A20-P730)
<b>Gene ID:</b>	17395
<b>Molecular Weight:</b>	Approximately 93.64 kDa

### PROPERTIES

#### AA Sequence

APYQRQPTFV	VFPKDLKTSN	LTDTQLAEAY	LYRYGYTRAA
QMMGEKQSLR	PALLMLQKQL	SLPQTGELDS	QTLKAIRTPR
CGVPDVGRFQ	TFKGLKWDHH	NITYWIQNYS	EDLPRDMIDD
AFARAFVWG	EVAPLTFTRV	YGPEADIVIQ	FGVAEHGDGY
PFDGKDGLLA	HAFPPGAGVQ	GDAHFDDDEL	WSLGKGVVIP
TYYGNSNGAP	CHFPFTFEGR	SYSACTTDGR	NDGTPWCSTT
ADYDKDGKFG	FCPSERLYTE	HGNNEGKPCV	FPFIFEGRSY
SACTTKGRSD	GYRWCATTAN	YDQDKLYGFC	PTRVDATVVG
GNSAGELCVF	PFVFLGKQYS	SCTSDGRRDG	RLWCATTSNF
DTDKKWGFPC	DQGYSLFLVA	AHEFGHALGL	DHSSVPEALM
YPLYSYLEGF	PLNKDDIDGI	QYLYGRGSKP	DPRPPATTTT
EPQPTAPPTM	CPTIPPTAYP	TVGPTVGPTG	APSPGPTSSP
SPGPTGAPSP	GPTAPPTAGS	SEASTESLSP	ADNPCNVDFV
DAIAEIQGAL	HFFKDGWYWK	FLNHRGSPLQ	GPFLTARTWP
ALPATLDSAF	EDPQTKRVFF	FSGRQMVVYT	GKTVLGPRSL
DKLGLGPEVT	HVSGLLPRRL	GKALLFSKGR	VWRFDLKSQK
VDPQSVIRVD	KEFSGVPWNS	HDIFQYQDKA	YFCHGKFFWR
VSFQNEVNKV	DHEVNQVDDV	GYVTYDLLQC	P

**Biological Activity** Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH<sub>2</sub>. The specific activity is 4658.992 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, 150 mM NaCl, pH 7.5.

**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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**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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