

MMP-9 Protein, Rat (HEK293, His)

Cat. No.:	HY-P73301	
Synonyms:	Matrix metalloproteinase-9; MMP-9; Gelatinase B; GELB; CLG4B	
Species:	Rat	
Source:	HEK293	
Accession:	EDL96479.1 (A20-P708)	
Gene ID:	81687	
Molecular Weight:	approximately 95 kDa	

PROPERTIES

AA Sequence					
	A P H Q R Q P T Y V	VFPRDLKTSN	LTDTQLAEDY	LYRYGYTRAA	
	QMMGEKQSLR	PALLMLQKQL	SLPQTGELDS	ETLKAIRSPR	
	CGVPDVGKFQ	T F E G D L K W H H	HNITYWIQSY	TEDLPRDVID	
	DSFARAFAVW	SAVTPLTFTR	VYGLEADIVI	QFGVAEHGDG	
	Y P F D G K D G L L	AHAFPPGPGI	QGDAHFDDDE	L W S L G K G A V V	
	P T Y F G N A N G A	PCHFPFTFEG	RSYLSCTTDG	R N D G K P W C G T	
	ТА Т Т Т Т Т Т К Ү	GFCPSENLYT	EHGNGDGKPC	VFPFIFEGHS	
	Y S A C T T K G R S	DGYRWCATTA	NYDQDKLYGF	CPTRADVTVT	
	GGNSAGEMCV	FPFVFLGKQY	STCTGEGRSD	GRLWCATTSN	
	FDADKKWGFC	P D Q G Y S L F L V	AAHEFGHALG	LDHSSVPEAL	
	МҮРМҮНҮНЕD	SPLHEDDIKG	IQHLYGRGSK	PDPRPPATTA	
	АЕРQPTAPPT	МСРТАРРМАҮ	ΡΤGGΡΤVΑΡΤ	GAPSPGPTGP	
	РТАСРЅЕАРТ	ESSTPVDNPC	NVDVFDAIAD	IQGALHFFKD	
	GRYWKFSNHG	GSQLQGPFLI	ARTWPALPAK	L N S A F E D P Q S	
	KKIFFFSGRK	MWVYTGQSVL	G P R S L D K L G L	GSEVTLVTGL	
	LPRRGGKALL	ISRERIWKFD	LKSQKVDPQS	VTRLDNEFSG	
	VPWNSHNVFH	YQDKAYFCHD	K Y F W R V S F H N	RVNQVDHVAY	
	VTYDLLQCP				
Biological Activity	Measured by its ability to	cleave a fluorogenic pentide	substrate Mca-PI GI -Dna-AF	R-NH2 and the specific activity is >1000	
Diotogical Activity	nmoles/min/ug (Activatio	n description. The proenzym	e needs to be activated by A	APMA for an activated form)	
	μποτεσ, ππη, μ.β.ι, τετινατισ		ie needs to be derivated by f		
Appearance	Lyophilized powder.				
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Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM MES, 100 mM NaCl, 1 mM CaCl ₂ , 10% Glycerol. pH 7.4 (Normally 5 % - 8				
	% trehalose, mannitol and	d 0.01% Tween 80 are added	as protectants before lyoph	ilization.) or 50 mM MES, 100 mM NaCl, 1	
	mM CaCL ₂ , pH 7.4.				
Endotoxin Level	<1 EU/µg, determined by I	LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	

BackgroundMatrix metalloproteinase-9 (Mmp9) is a member of the matrix metalloproteinase (MMP) family, which are involved in the
breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction,
wound repair, and tissue remodeling, as well as in disease processes, such as arthritis, progression of atherosclerosis and
tumor invasion. Mmp9 is secreted as inactive proproteins which are activated when cleaved by extracellular proteinases to
generate a mature, zinc-dependent endopeptidase enzyme that degrades collagens of type IV, V and XI, and elastin. Mmp9 is
also involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow. Mmp9 implicates in several
diseases, including Down syndrome; anodontia; artery disease; autoimmune disease; and chronic obstructive pulmonary
disease^{[1][2]}.

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

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