

Product datasheet for TP302872

MMP9 (NM_004994) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) (MMP9), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202872 representing NM_004994 Red =Cloning site Green =Tags(s)

MSLWQPLVLVLLVVGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEELYRYGYTRVAEMRGESKSLGPA
LLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDA
FARAFALWSAVTPLTFTRVYSRDADIVIQFGVAEHGDPFDGKDGLLAHAFPPGPGIQGDAHFDDELW
SLGKGVVPTFRGNADGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRD
GNADGKPCQFPFIFQGSYSACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVF
P
FTFLGKEYSTCTSEGRGDGRLWCATTSNFDSDKKWGFCPDQGYSFLVAAHEFGHALGLDHSSVPEALMY
PMYRFTEGPPLHKDDVNGIRHLYGPRPEPEPRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPS
AGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIAEIGNQLYLFKDGKYWRFSEGRGSRPQGPFLLIADKW
PALPRKLDVFEELSKKLFSSGRQVWVYTGASVLGPRRLDKLGLGADVAQVTGALRSRGRKMLLFSGR
RLWRFVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQDRFYRRVSSRSELNQVDQVGYVTY
D
ILQCPED

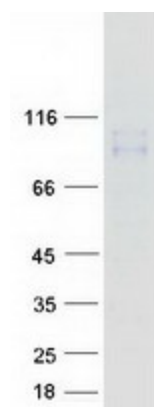
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	78.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004985
Locus ID:	4318
UniProt ID:	P14780
RefSeq Size:	2387
Cytogenetics:	20q13.12
RefSeq ORF:	2121
Synonyms:	CLG4B; GELB; MANDP2; MMP-9
Summary:	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Bladder cancer, Leukocyte transendothelial migration, Pathways in cancer

Product images:

Coomassie blue staining of purified MMP9 protein (Cat# TP302872). The protein was produced from HEK293T cells transfected with MMP9 cDNA clone (Cat# [RC202872]) using MegaTran 2.0 (Cat# [TT210002]).