

## Product datasheet for PH302872

### MMP9 (NM\_004994) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MMP9 MS Standard C13 and N15-labeled recombinant protein (NP_004985)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202872
Predicted MW:	78.3 kDa
Protein Sequence:	>RC202872 representing NM_004994 Red=Cloning site Green=Tags(s)

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLPGLRNTLTDRLAEELYRYGYTRVAEMRGESKSLGPA  
LLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHNITYWIQNYSEDLPRVIDDA  
FARAFALWSAVTPLTFTRVYSRDADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGPGIQGDAHFDDELW  
SLGKGVVVPTRFGNADGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRD  
GNADGKPCQFPFIFQGQSYSACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFP  
FTFLGKEYSTCTSEGRGDGRLWCATTSNFSDKKWGFCDQGYSLFLVAHEFGHALGLDSSVPEALMY  
PMYRFTEGPPLHKDDVNGIRHL YGPRPEPEPRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPS  
AGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIAEIGNQLYLFKDGKYWRFSEGRSRPQGPFLIADKW  
PALPRKLDVFEPLSKKLFFFSGRQVWVYTGASVLGPRRLDKLGLGADVAQVTGALRSGRGMLLFSGR  
RLWRFVKAQMVDPRSASEVDRMFGVPLDTHDVFQYREKAYFCQDRFYRRVSSRSELNQVDQVGYVYTD  
ILQCPED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004985</a>



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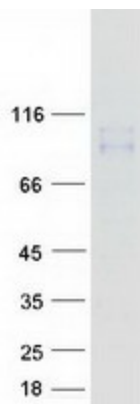
RefSeq Size:	2387
RefSeq ORF:	2121
Synonyms:	CLG4B; GELB; MANDP2; MMP-9
Locus ID:	4318
UniProt ID:	<a href="#">P14780</a>
Cytogenetics:	20q13.12

**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]).