

Product datasheet for **TP300720**

MMP2 (NM_004530) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) (MMP2), transcript variant 1, 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA >RC200720 representing NM_004530
Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MEALMARGALTGPLRALCLLGCLLSHAAAAPSPIIKFPGDVAPKTDKELAVQYLNTFYGCPKESC�LFVL
KDTLKKMQKFFGLPQTGDLDQNTIETMRKPRCGNPDVANYNFFPRPKWDKNQITYRIIGYTPDLDPETV
DDAFARAFQVWSDVTPLRFSRIHDGEADIMINFRWEHGDGYPFDGKDGLLAHAFAPGTGVGGDSHFDDD
ELWTLGEGQVVRVKYGNADGEYCKFPFLFNGKEYNSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPHEALF
TMGGNAEGQPCKFPFRFQGTSYDSCTTEGRTDGYRWCGTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCV
FPFTFLGNKYESCTSAGRSKGKMWCCATTANYDDDRKWFPCPDQGYSFLVAAHEFGHAMGLEHSQDPGAL
MAPIYTYTKNFRLSQDDIKGIQELYGASPDIDLGTGPTPTLGPVTPICKQDIVFDGIAQIRGEIFFFKD
RFIWRVTVPKDKPMGPLLVAWFPELPEKIDAVYEAPQEEKAVFFAGNEYWIYSASTLGERGYPKPLTSLG
LPPDVQRVDAAFNWSKNKTYIFAGDKFWRYNEVKKKMDPGFPKLIADAWNAIPDNLDVAVDLQGGGHSY
FFKGAYYKLENQSLKSVKFGSIKSDWLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

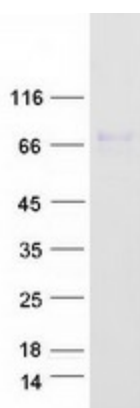
Tag: C-Myc/DDK
Predicted MW: 70.9 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.



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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_004521
Locus ID:	4313
UniProt ID:	P08253 , A0A024R6R4
RefSeq Size:	3069
Cytogenetics:	16q12.2
RefSeq ORF:	1980
Synonyms:	CLG4; CLG4A; MMP-2; MMP-II; MONA; TBE-1
Summary:	This gene is a member of the matrix metalloproteinase (MMP) gene family, that are zinc-dependent enzymes capable of cleaving components of the extracellular matrix and molecules involved in signal transduction. The protein encoded by this gene is a gelatinase A, type IV collagenase, that contains three fibronectin type II repeats in its catalytic site that allow binding of denatured type IV and V collagen and elastin. Unlike most MMP family members, activation of this protein can occur on the cell membrane. This enzyme can be activated extracellularly by proteases, or, intracellularly by its S-glutathiolation with no requirement for proteolytical removal of the pro-domain. This protein is thought to be involved in multiple pathways including roles in the nervous system, endometrial menstrual breakdown, regulation of vascularization, and metastasis. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Bladder cancer, GnRH signaling pathway, Leukocyte transendothelial migration, Pathways in cancer

Product images:



Coomassie blue staining of purified MMP2 protein (Cat# TP300720). The protein was produced from HEK293T cells transfected with MMP2 cDNA clone (Cat# [RC200720]) using MegaTran 2.0 (Cat# [TT210002]).