

Recombinant Full Length Human MMP2 Protein, C-Flag-tagged

Cat. No. MMP2-1611HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MMP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	70.9 kDa

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AA Sequence	MEALMARGALTGPLRALCLLGCLLSHAAAAPSPIIKFPGDVAPKTDKELAVQYLNTFY GCPKESC�LFVL KDTLKKMQKFFGLPQTGDLDQNTIETMRKPRCGNPĐVANYNFF PRKPKWDKNQITYRIIGYTPDLDPETV DDAFARAFQVWSDVTPLRFSRIHDGEADIMI NFRWEHGDGYPFĐGKDGLLAHAFAPGTGVGGDSHFĐĐĐ ELWTLGEGQVVRVK YGNADGEYCKFPFLFNGKEYNSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPHEAL F TMGGNAEGQPCKFPFRFQGTSDCTTEGRTDGYRWCGTTEDYDRDKKYGFCP ETAMSTVGGNSEGAPCV FPFTFLGNKYESCTSAGRSDGKMWCATTANYDDDRKW GFCPDQGYSLFLVAAHEFGHAMGLEHSQDPGAL MAPIYTYTKNFRLSQDDIKIGIQE LYGASPDIDLGTGPTPTLGPVTPEICKQDIVFDGIAQIRGEIFFFKD RFIWRTVTPRDK PMGPLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEYWIYSASTLERGYPKPLTSL G LPPDVQRVDAAFNWSKNKITYIFAGDKFWRYNEVKKKMDPGFPKLIADAWNAIP DNLDAVVDLQGGGHSY FFKGAYYKLENQSLKSVKFGSIKSDWLGCTRTRPLEQKLISEEDLAANDILDYKĐĐĐ DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Bladder cancer, GnRH signaling pathway, Leukocyte transendothelial migration,

Pathways in cancer

Full Length

Full L.

GENE INFORMATION

Gene Name

MMP2 matrix metalloproteinase 2 [Homo sapiens (human)]

Official Symbol

MMP2

Synonyms

CLG4; MONA; CLG4A; MMP-2; TBE-1; MMP-II

Gene ID

4313

mRNA Refseq

NM_004530.6

Protein Refseq

NP_004521.1

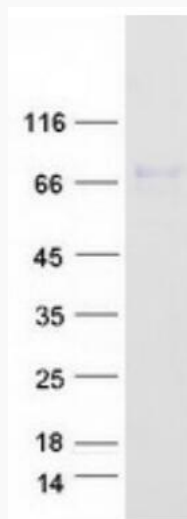
MIM

120360

UniProt ID

P08253

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Coomassie blue staining of purified MMP2 protein.

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