

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	<p>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.</p>
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 KDTLKKMQKFFGLPQTGDLDQNTIETMRKPRCGNPDVANYNFF
 PRKPKWDKNQITYRIIGYTPDLDPETV DDAFARAFQVWSDVTPLRFSRIHDGEADIMI
 NFGRWEHGDGYPFDGKDGLLAHAFAFGTGVGGDSHFDDD ELWTLGEGQVVRVK
 YGNADGEYCKFPFLFNGKEYNSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPHEAL
 F TMGGNAEGQPCKFPFRFQGTSYDSCTTEGRTDGYRWCGTTEDYDRDKKYGFCP
 ETAMSTVGGNSEGAPCV FPFTFLGNKYESCTSAGRSDGKMWCATTANYDDDRKW
 GFCPDQGYSLFLVAAHEFGHAMGLEHSQDPGAL MAPIYTYTKNFRLSQDDIKGIQE
 LYGASPDIDLGTGPTPTLGPVTPEICKQDIVFDGIAQIRGEIFFFKD RFIWRTVTPRDK
 PMGPLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEYWIYSASTLERGYPKPLTSL
 G LPPDVQRVDAAFNWSKNKTYIFAGDKFWRYNEVKKKMDPGFPKLIADAWNAIP
 DNLDVVDLQGGGHSY
 FFKGAYYLKLENQSLKSVKFGSIKSDWLGCTRTRPLEQKLISEEDLAANDILDYKDDD
 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,

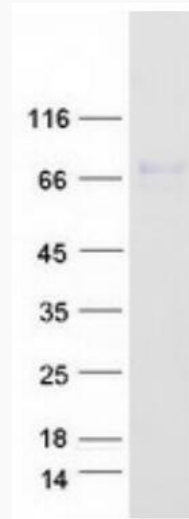
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Pathways in cancer

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 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified MMP2 protein.

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