

Recombinant Full Length Human MMP14 Protein, C-Flag-tagged

Cat. No. MMP14-1787HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MMP14 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.8 kDa
AA Sequence	MSPAPRPPRCLLLPLLTGTLASLGSAQSSSFSPAWLQQYGYLPPGDLRTHQTQR SPQSLSAIAAMQK FYGLQVTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKR

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YAIQGLKWQHNEITFCIQNYTPKVG EYAT YEAIRKAFRVWESATPLRFREVPYAYIRE
 GHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIG GDTHFDSAEPWTVRN
 EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQ Q
 LYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVF
 KERWFWRVRNNQVM DGYPMPIGQFWRGLPASINTAYERKDGKFVFFKGDKHWVF
 DEASLEPGYPKHIKELGRGLPTDKIDAALF WMPNGKTYFFRGNKYRFNEELRAVD
 SEYPKNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQK LKVEPGYPKSA
 LRDWMGCPSSGRPDEGTEETEVIIEVDEEGGAVSAAAVLPLVLLLLLVAVGLA
 VF FFRRHGTPRRLLYCQRSLLDKV TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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, Transmembrane
Protein Pathways	GnRH signaling pathway
Full Length	Full L.

GENE INFORMATION

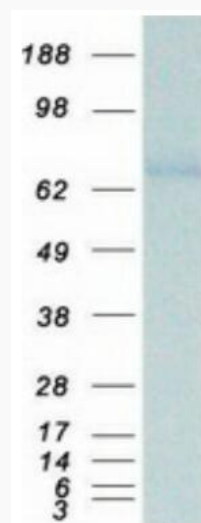
Gene Name [MMP14 matrix metalloproteinase 14 \[Homo sapiens \(human\) \]](#)

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Official Symbol	MMP14
Synonyms	MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1
Gene ID	4323
mRNA Refseq	NM_004995.4
Protein Refseq	NP_004986.1
MIM	600754
UniProt ID	P50281



Coomassie blue staining of purified MMP14 protein.