

Active Recombinant Human MMP14

Cat. No. MMP14-162H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MMP14 was produced in mammalian cells, 59 kDa.
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.
Concentration	10 µg/25 µl
Purity	>95%
Activity	Pro-form activated by incubation with Furin.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Formulation	Liquid. In 50 mM HEPES, pH 7.5, containing 400 mM sodium chloride, 5 mM calcium chloride, 20 μ M zinc chloride and 20% glycerol.
Stability	Stable at least 6 months when stored at -20°C.
Storage	Shortterm, -20°C; Long term -80°C. Avoid freeze/thaw cycles.
Official Symbol	MMP14
GENE INFORMATION	
Gene Name	MMP14 matrix metalloproteinase 14(membrane-inserted) [Homo sapiens]
Synonyms	MMP14; matrix metalloproteinase14 (membrane-inserted); 1; MMP-X1; MT-MMP; MT1MMP; MTMMP1; MT1-MMP; MT-MMP 1; matrix metalloproteinase-14; membrane type 1 metalloproteinase; membrane-type matrix metalloproteinase 1; membrane-type-1 matrix metalloproteinase; MMP-14; EC 3.4.24.80; OTTHUMP00000027917; EC 3.4.24
Gene ID	4323
mRNA Refseq	NM_004995
Protein Refseq	NP_004986
MIM	600754
UniProt ID	P50281
Chromosome Location	14q11-q12
Pathway	Activation of Matrix Metalloproteinases; Extracellular matrix organization; GnRH

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signaling pathway

Function

calcium ion binding; integrin binding; metalloendopeptidase activity

PDB rendering based
on 1bqq.



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