

## Active Recombinant Human MMP10 Protein

Cat. No. MMP10-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MMP10 Protein was expressed in mouse myeloma cell line NS0
<b>Species</b>	Human
<b>Source</b>	NS0
<b>Description</b>	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11.
<b>Bio-activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> . The specific activity is >190 pmol/min/g, as measured under the described conditions.
<b>Molecular Mass</b>	52 kDa (pro) & 43 kDa (active)
<b>N-terminal Sequence Analysis</b>	Tyr18
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.

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<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.
<b>Storage Buffer</b>	Supplied as a 0.2 µm filtered solution in MES, NaCl, CaCl <sub>2</sub> and Brij-35.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>SDS-PAGE</b>	58 kDa and 48 kDa, reducing conditions
<b>Structure / Form</b>	Pro and active forms

## GENE INFORMATION

<b>Gene Name</b>	MMP10 matrix metalloproteinase 10 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MMP10
<b>Synonyms</b>	EC 3.4.24; EC 3.4.24.22; matrix metalloproteinase 10 (stromelysin 2); matrix metalloproteinase 10; matrix metalloproteinase 10 (stromelysin 2); Matrix metalloproteinase-10; MMP10; MMP-10; SL-2; STMY2stromelysin-2; Stromelysin 2; transin 2; transin-2
<b>Gene ID</b>	4319
<b>mRNA Refseq</b>	NM_002425.3
<b>Protein Refseq</b>	NP_002416.1

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<b>MIM</b>	185260
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<b>UniProt ID</b>	P09238
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