

Native Human MMP7

Cat. No. MMP7-28205TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length MMP7 enzyme purified from transfected human kidney cells.
Species	Human
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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Form	Liquid
Storage buffer	The enzyme is supplied as a mixture of the zymogen and active enzyme, in: Preservative: 0.01% Sodium Azide Constituents: 50% Glycerol, 0.025% Brij 35, 5mM Calcium chloride, 250mM Sodium chloride, 10 mM MES, pH 5.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase M10A family.

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Full Length	Full L.
GENE INFORMATION	
Gene Name	MMP7 matrix metalloproteinase 7 (matrilysin, uterine) [Homo sapiens]
Official Symbol	MMP7
Synonyms	MMP7; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine) , MPSL1; matrilysin; PUMP 1;
Gene ID	4316
mRNA Refseq	NM_002423
Protein Refseq	NP_002414
MIM	178990
Uniprot ID	P09237
Chromosome Location	11q21-q22
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; Syndecan-1-mediated signaling events, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem; Wnt signaling pathway, organism-specific biosystem;
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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