

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) , MP5L1; 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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