

Active Recombinant Human MMP7 Protein

Cat. No. MMP7-01H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human MMP7 Protein was expressed in mouse myeloma cell line NS0

Species Human

Source NS0

Description

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 proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin 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 on chromosome 11. This gene exhibits elevated expression levels in multiple human cancers.

Bio-activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH₂. The specific activity is >600 pmol/min/g, as measured under the described conditions.

Molecular Mass 28 kDa & 20 kDa (Leu18-T198)

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N-terminal Sequence Analysis	Leu18 & Thr199
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in MES, NaCl and CaCl ₂ .
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.
SDS-PAGE	28 kDa (major) & 20 kDa (minor), reducing conditions
Structure / Form	Pro form

GENE INFORMATION

Gene Name	MMP7 matrix metalloproteinase 7 [Homo sapiens (human)]
Official Symbol	MMP7
Synonyms	MMP-7; MP-1; PUMP-1
Gene ID	4316

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mRNA Refseq	NM_002423.5
Protein Refseq	NP_002414.1
MIM	178990
UniProt ID	P09237

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