

Recombinant Human MMP7 protein, His-tagged

Cat. No. MMP7-49H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human MMP7 protein (Leu18-Lys267), fused to His-tag at N-terminus, was expressed in 293F cells.

Species Human

Source HEK293

ProteinLength 250

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.

Form Freeze-dried powder. Buffer composition: Phosphate buffer (pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300).

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Molecular Mass	Predicted Molecular Mass: 29.5 kDa. Accurate Molecular Mass: 30/18kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0 EU/g (LAL method)
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user).
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Concentration	Original: 200µg/mL
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MMP7
Official Symbol	MMP7
Synonyms	MMP-7; MP5L1; PUMP-1; MAT; Matrilysin Uterine; Matrilysin; Matrin; Pump-1 Protease; Uterine Metalloproteinase

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Gene ID 4316

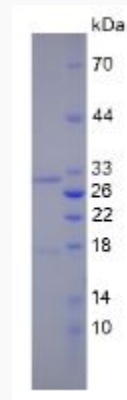
mRNA Refseq NM_002423.5

Protein Refseq NP_002414.1

MIM 178990

UniProt ID P09237

SDS-PAGE of MMP7-49H



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