

Recombinant Human MMP7 Protein, His-tagged

Cat. No. MMP7-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP7 Protein (18-267 aa (full-length)) with 6xHis tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	18-267
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.
Molecular Mass	30.6 kDa
Purity	>95% confirmed by 10% SDS-PAGE stained with Coomassie Blue (CB),

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	immunoblotting with anti-6xHis (WB).
Applications	ELISA, Western Blot, Antibody Production, Protein array
Quality Control Test	10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-6xHis (WB) and peptide fingerprinting by MALDI-TOF-TOF mass spectrometry.
Storage	Store working aliquots at 4 centigrade for up to one week. For extended storage, conserve at -80 centigrade.
Expiry	12 months from the date of purchase, if it is properly stored.
Storage Buffer	20mM Tris-HCl, 0.5M NaCl, 1mM 2-mercaptoethanol, 0.2M Imidazole, pH:8.0. No preservatives added.
Shipping	Dry Ice

GENE INFORMATION

Gene Name	MMP7 matrix metalloproteinase 7 [Homo sapiens (human)]
Official Symbol	MMP7
Synonyms	MMP7; matrix metalloproteinase 7; MMP-7; MPSL1; PUMP-1; matrilysin; matrin; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase-7; pump-1 protease; uterine matrilysin; uterine metalloproteinase; EC 3.4.24.23
Gene ID	4316
mRNA Refseq	NM_002423

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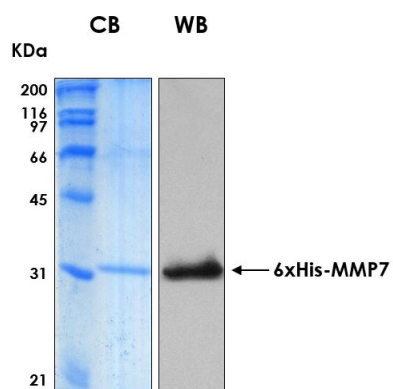
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Protein Refseq NP_002414

MIM 178990

UniProt ID P09237



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