

# Recombinant Human MMP7 protein, His-tagged

**Cat. No.** MMP7-47H    **Lot. No.** (See product label)

## SPECIFICATION


<b>Product Overview</b>	Recombinant Human MMP7(95-267aa) fused with His tag was expressed in E. coli.
<b>Description</b>	MMP7 also known as Matrilysin. MMP7 belongs to the matrix metalloproteinase (MMP) family, which 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. MMP7 protein enhanced the phosphorylation of p38 and ERK mitogen-activated protein kinases. MMP7 has directly functional target of miR-148a, participating in cell invasion.
<b>Source</b>	E. coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid. In 20mM Tris 8.0 containing 10% glycerol
<b>Molecular Mass</b>	19.2kDa (174aa)
<b>AA Sequence</b>	<p>MYSLFPNSPK WTSKVVTYRI VSYTRDLPHI TVDRLVSKAL NMWGKEIPLH</p> <p>FRKVWVGTD IMIGFARGAH GDSYPFDGPG NTLAHAFAPGTGLGGDAHFD</p> <p>EDERWTDGSS LGINFLYAAT HELGHSLGMG HSSDPNAVMY PTYGNGDPQN</p> <p>FKLSQDDIKG IQKLYGKRSN SRKK</p>
<b>Purity</b>	> 90% by SDS - PAGE

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<b>Storage</b>	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MMP7 matrix metalloproteinase 7 (matrilysin, uterine) [ Homo sapiens ]
<b>Official Symbol</b>	MMP7
<b>Synonyms</b>	MMP7; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine) , MPSL1; matrilysin; PUMP 1; matrin; pump-1 protease; uterine matrilysin; uterine metalloproteinase; matrix metalloproteinase-7; matrix metalloproteinase 7 (matrilysin, uterine); MMP-7; MPSL1; PUMP-1;
<b>Gene ID</b>	4316
<b>mRNA Refseq</b>	NM_002423
<b>Protein Refseq</b>	NP_002414
<b>MIM</b>	178990
<b>UniProt ID</b>	P09237
<b>Chromosome Location</b>	11q21-q22
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Alpha6-Beta4

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Integrin Signaling Pathway, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; Syndecan-1-mediated signaling events, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;

**Function**

metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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