

Recombinant Human MMP7 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human MMP7(95-267aa) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	95-267 a.a.
Description	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.
Form	Liquid. In 20mM Tris 8.0 containing 10% glycerol
Molecular Mass	19.2kDa (174aa)
AA Sequence	<p> MYSLFPNSPK WTSKVVYRI VSYTRDLPHI TVDRLVSKAL NMWGKEIPLH FRKVVWGTAD IMIGFARGAH GDSYPFDGPG NTLAHAFAPGTGLGGDAHFD EDERWTDGSS LGINFLYAAT HELGHSLGMG HSSDPNAVMY PTYGNQDPQN FKLSQDDIKG IQKLYGKRSN SRKK </p>

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Purity	> 90% by SDS - PAGE
Storage	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.
Concentration	1mg/ml (determined by Bradford assay)
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) , 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;
Gene ID	4316
mRNA Refseq	NM_002423
Protein Refseq	NP_002414
MIM	178990
UniProt ID	P09237
Chromosome Location	11q21-q22

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Pathway

Activation of Matrix Metalloproteinases, organism-specific biosystem; Alpha6-Beta4 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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