

Matrix Metalloproteinase-7 Active Protein | MMP 7 active protein

Recombinant Human Matrix Metalloproteinase-7

CATALOG #
AAA38246

HOST
E Coli

PRODUCT SYNONYMS

Matrix Metalloproteinase-7; Recombinant Human Matrix Metalloproteinase-7; MMP 7 Human; Matrix Metalloproteinase-7 Human Recombinant; Matrilysin; EC 3.4.24.23; Pump-1 protease; Uterine metalloproteinase; Matrix metalloproteinase-7; MMP-7; Matrin; MPSL1; PUMP-1; MMP7; MMP 7 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein (2 mg/ml) contains the following additives: 10 mM HEPES (pH 7.4), 5 mM CaCl ₂ and 150 mM NaCl. Sterile clear liquid solution.
Sequence Length	267
Tag type	No tag
Recommended Use	Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure antibody using ECL technique). ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (1:10-50K for neat serum and 0.5-1 ug/ml for affinity pure). Histochemistry & Immunofluorescence: Not tested.
Unit Definition	One unit is defined as the digestion of 1 ug Azocoll/min at 37 degree C.
Biological Activity	The specific activity was found to be 9100 U/mg.
Preparation and Storage	Matrilysin although stable at 4 degrees C for 3 weeks, should be stored desiccated below -18 degrees C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MMP 7 active protein	Description: Matrix Metalloproteinase-7 Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing having a molecular mass of 19.13 kDa. The MMP-7 is purified by proprietary chromatographic techniques. Introduction: Matrix metalloproteinase-7 (MMP-7) also known as matrilysin and PUMP (EC 3.4.24.23) cleaves a number of substrates including collagen types IV and X, elastin, fibronectin, gelatin, laminin and proteoglycans. MMP-7 is closely related to the stromelysin family members but is encoded by a different gene. MMP-7 is the smallest of all the MMPs consisting of a pro-peptide domain and a catalytic domain. It lacks the hemopexin-like domain common to other members of the MMPs. MMP-7 is secreted as a 28 kDa proenzyme and can be activated in vitro by organomercurials and trypsin and in vivo by MMP-3 to a 18 kDa active MMP-7 enzyme. Once activated, MMP-7 can activate pro-MMP-1 and pro-MMP-9 but not pro-MMP-2. MMP-7 is widely expressed having been reported in elevated levels in cycling endometrium as well as in colorectal cancers and adenomas, hepatocellular carcinomas, rectal carcinomas, and approximately 50% of gliomas.
Product Categories/Family for MMP 7 active protein	Enzymes; Matrix Metalloproteinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505219
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NCBI GeneID	4316
NCBI Accession #	NP_002414.1
NCBI GenBank Nucleotide #	NM_002423.3
UniProt Accession #	P09237; Q9BTK9
Molecular Weight	29,677 Da
NCBI Official Full Name	matrilysin preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 7
NCBI Official Symbol	MMP7
NCBI Official Synonym Symbols	MMP-7; MPSL1; PUMP-1
NCBI Protein Information	matrilysin; matrin; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase-7; pump-1 protease; uterine matrilysin; uterine metalloproteinase
UniProt Protein Name	Matrilysin
UniProt Gene Name	MMP7
UniProt Synonym Gene Names	MPSL1; PUMP1; MMP-7
UniProt Entry Name	MMP7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mmp-7-active-protein/matrix-metalloproteinase-7/38246>