

MMP-14 active protein

MMP-14 (catalytic domain) (human), (recombinant)

CATALOG #
AAA77047

HOST
E Coli

PRODUCT SYNONYMS

MMP-14; MMP-14 (catalytic domain) (human); (recombinant); MMP-14 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Partially purified by single-step affinity chromatography and gel filtration
Form/Format	Liquid. In 50mM TRIS, pH7.5, containing 5mM calcium chloride, 300mM sodium chloride, 20uM zinc chloride, 0.5% Brij-35, and 30% glycerol
Source Note	Active Matrix Metalloproteinase-14 (MMP-14, Membrane-Type Matrix Metalloproteinase 1, MT1-MMP) catalytic domain from human cDNA. The enzyme consists of the catalytic domain of human MMP-14 (Tyr112-Arg298, NM_004995) with a C-terminal purification tag. This represents a naturally-occurring active form of MMP-14 which lacks the C-terminal hemopexin domain. MMPs lacking this domain cannot cleave native collagens; however, activity toward other targets such as gelatin, casein, or peptide substrates is unaffected
Activity	Preincubation of MMP-14 catalytic domain at 13.6nM with the broad-spectrum inhibitor GM6001 at 20nM for 1 hour completely inhibits enzymatic activity
Specific Activity	>=70U/ug. One U=100 pmol/min at 37 degree C using the colorimetric thiopeptolide Ac-Pro-Leu-Gly-S-Leu-Leu-Gly-OEt (100uM) as substrate
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Long Term Storage -80°C The enzyme is stable on ice for at least several hours. However, it is recommended that thawing and dilution of the enzyme be done within as short a time as possible before start of the assay. NOTE: When stored at -70°C, this enzyme is stable at the concentration supplied, in its current storage buffer. Procedures such as dilution of the enzyme followed by refreezing could lead to loss of activity. Handling After opening, prepare aliquots and store at -70°C. Avoid freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for MMP-14 active protein	Cellular Analysis; Cell Organelles & Structures; Proteostasis; Proteolysis & Protein Degradation
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P50281
Molecular Weight	22.5kDa
UniProt Protein Name	Matrix metalloproteinase-14
UniProt Gene Name	MMP14
UniProt Synonym Gene Names	MMP-14; MT-MMP 1; MTMMP1; MT1-MMP; MT1MMP
UniProt Entry Name	MMP14_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-active-protein/mmp-14/77047>