

Active Recombinant Human MMP3 protein, His-tagged

Cat. No. MMP3-1334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human MMP3 protein(P09237)(18~267 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	18-267 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Matrix Metalloproteinase 7 (MMP7) is a member of the matrix metalloproteinases (MMPs) family which are zinc and calcium dependent endopeptidases. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site. MMP-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and can degrade a variety of extracellular matrix substrates and other substrates and plays important regulatory roles in many human pathophysiological processes. Besides, Matrix Metalloproteinase 2 (MMP2) has been identified as an interactor of MMP7, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human MMP7 and recombinant human MMP2. Briefly, biotin-linked MMP7 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to MMP2-coated microtiter wells and

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incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µl stop solution to the wells and read at 450nm immediately. The binding activity of MMP7 and MMP2 was shown, the EC50 for this effect is 0.30ug/mL.

Molecular Mass	29.5kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-0.2 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MMP3 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Homo sapiens]
Official Symbol	MMP3
Synonyms	MMP3; matrix metalloproteinase 3 (stromelysin 1, progelatinase); matrix metalloproteinase 3 (stromelysin 1, progelatinase), STMY, STMY1; stromelysin-1; transin-1; proteoglycanase; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, progelatinase); SL-1; STMY; STR1; CHDS6; MMP-3; STMY1; MGC126102; MGC126103; MGC126104;
Gene ID	4314

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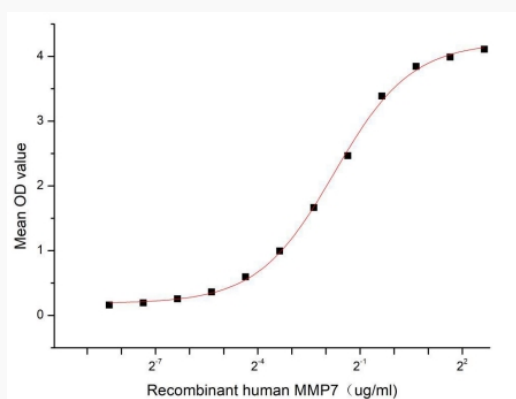
mRNA Refseq [NM_002422](#)

Protein Refseq [NP_002413](#)

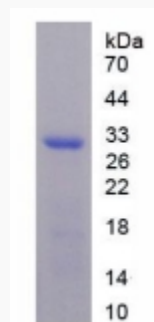
MIM [185250](#)

UniProt ID [P08254](#)

Activity



SDS-PAGE



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