

## Active Recombinant Human MMP3 protein, His-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Active Recombinant Human MMP3 protein(P09237)(18~267 aa), fused with N-terminal His tag, was expressed in HEK293.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>ProteinLength</b>    | 18-267 aa   |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.  |
| <b>Bio-activity</b>     | <p>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</p> |

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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 50µstop 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.

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

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | MMP3 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [ Homo sapiens ]  |
| <b>Official Symbol</b> | MMP3   |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 4314   |

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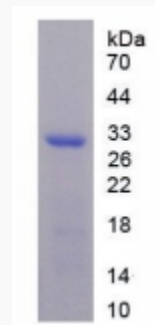
mRNA Refseq [NM\\_002422](#)

Protein Refseq [NP\\_002413](#)

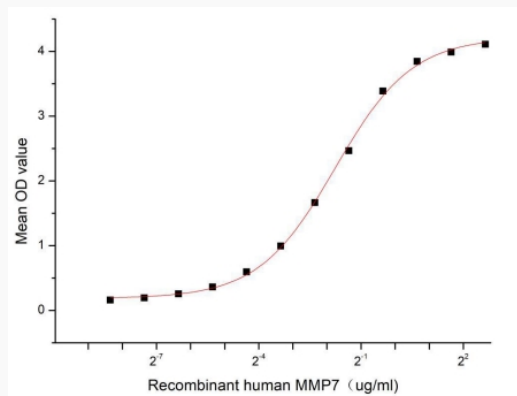
MIM [185250](#)

UniProt ID [P08254](#)

**SDS-PAGE**



**Activity**



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