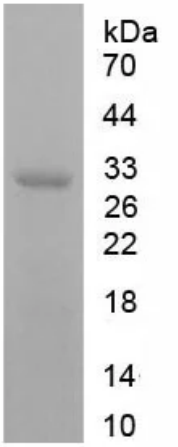
Active Matrix Metalloproteinase 7 (MMP7)

Catalog#:PHH12183

概述（Summary）

别称（Alternative Names）	MPSL1; MAT; PUMP-1; Matrilysin Uterine; Matrilysin; Matrin; Pump-1 Protease; Uterine Metalloproteinase
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Leu18-Lys267】
Accession #	P09237
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	29.5 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in ddH_2O to a concentration of 0.1-0.2 mg/mL. Do not vortex.
背景介绍（References）	Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

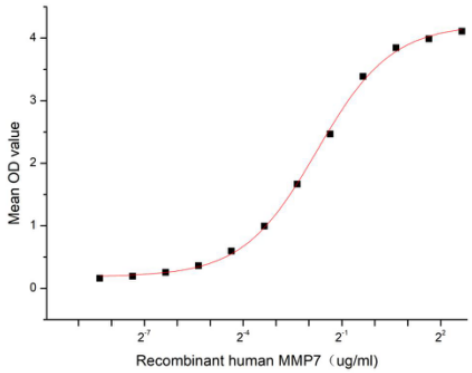


Figure 1. The binding activity of recombinant human MMP7 and recombinant human MMP2

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 incubated for 1h at 37℃. 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℃. Finally, add 50µl stop solution to the wells and read at 450nm immediately. The binding activity of MMP7 and MMP2 was shown in Figure 1, the EC50 for this effect is 0.30ug/mL.

注意事项（Note）

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