# MMP-10 (catalytic domain) (human), (recombinant)

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|---|---|
| **BML-SE329-0010** | 10µg |

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## Handling & Storage

**Long Term Storage** -80°C

**Shipping** Dry Ice

## Regulatory Status RUO - Research Use Only

## Product Details

**Activity** Preincubation of MMP-10 catalytic domain at 22nM with the broad-spectrum inhibitor GM6001 (Prod. No. BML-EI300) at 100nM for 1 hour inhibits enzymatic activity by 95%.

**Alternative Name** Matrix metalloproteinase 10, Stromelysin-2

**Application Notes** Useful tool to study of enzyme kinetics, cleave target substrates, and screen for inhibitors.

**Formulation** Liquid. In 50mM TRIS, 5mM $CaCl_2$, 300mM NaCl, 20µM $ZnCl_2$, 0.5% Brij-35, and 30% glycerol.

**MW** 19.4 kDa

**Purity Detail** Partially purified by single-step affinity chromatography and gel filtration.

**Source** Produced in *E. coli*. Active Matrix Metalloproteinase-10 (MMP-10, stromelysin-2, transin-2) catalytic domain from human cDNA. The enzyme consists of the catalytic domain of human MMP-10 ($Phe^{99}$-$Glu^{271}$, NM_2425) with a C-terminal purification tag. This comprises an active form of MMP-10 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.

**Specific Activity** ≥200 pmol/min/µg at 37°C using the colorimetric thiopeptolide Ac-Pro-Leu-Gly-S-Leu-Leu-Gly-OEt (100 µM; Prod. No. BML-P125) as substrate.

**UniProt ID** P09238

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