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

Citations: 3 View Online »

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BML-SE329-0010	10µg

Manuals, SDS & CofA View Online »

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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