MMP-13 (catalytic domain) (human), (recombinant)

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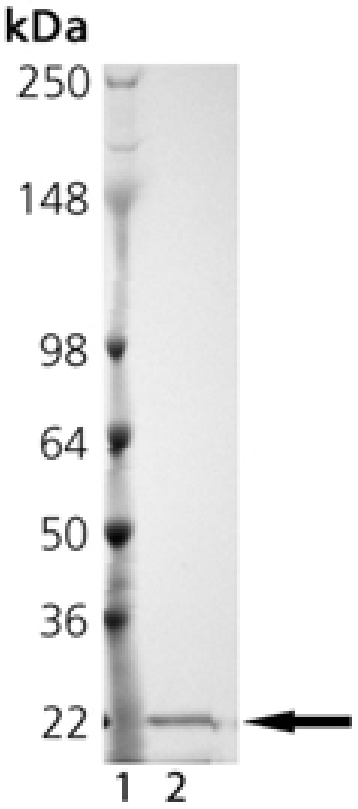
BML-SE246-0010	10µg

Manuals, SDS & CofA View Online »



SDS-PAGE Analysis: Lane1: MW Marker; Lane 2: 2µg of purified MMP-13 (catalytic domain) (human), (recombinant).

Handling & Storage

Long Term Storage -80°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Activity Preincubation of MMP-13 catalytic domain at 13nM with the broad-spectrum inhibitor GM6001 (Prod. No. BML-EI300) at 20nM for 1 hour completely inhibits enzymatic activity.

Alternative Name Matrix metalloproteinase 13, Collagenase-3

Application Notes Useful tool to study 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 20.4 kDa

Purity ≥95% (SDS-PAGE)

Purity Detail Purified by multi-step chromatography.

Source Produced in *E. coli*. Active Matrix Metalloproteinase-13 (MMP-13, collagenase-3) catalytic domain from human cDNA. The enzyme consists of the catalytic domain of human MMP-13 (Tyr^{104}-Asn^{274}, NM_002427) with a C-terminal purification tag. This represents a naturally-occurring active form of MMP-13 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 ≥2000 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 P45452

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