MMP-11 (catalytic domain) (human), (recombinant)

MMP-11 may be a link between obesity and cancer.

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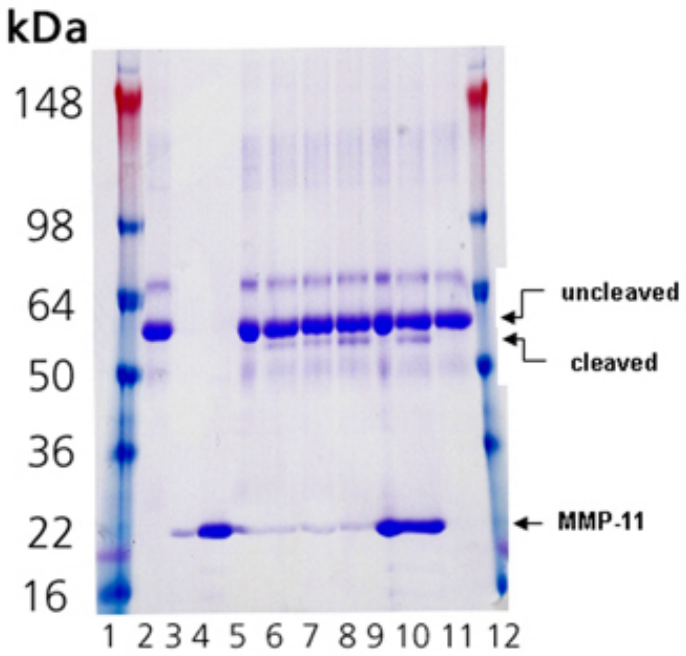
BML-SE282-0010	10µg

Manuals, SDS & CofA View Online »



Coomassie-stained SDS-PAGE showing a timecourse of α1-antitrypsin (3ug) cleavage after incubation at 37°C with or without MMP-11 catalytic domain. Lanes are as follows: 1. Marker; 2. 1.5 µg α1-antitrypsin (0 hours); 3. 50 ng MMP-11, (0 hours); 4. 1 µg MMP-11, (0 hours); 5. 1.5 µg α1-antitrypsin incubated with 50 ng MMP-11 (0 hours); 6. 1.5 µg α1-antitrypsin incubated with 50 ng MMP-11 (3 hours); 7. 1.5 µg α1-antitrypsin incubated with 50 ng MMP-11 (8 hours); 8. 1.5 µg α1-antitrypsin incubated with 50 ng MMP-11 (24 hours); 9. 1.5 µg α1-antitrypsin incubated with 1 µg MMP-11 (0 hours); 10. 1.5 µg α1-antitrypsin incubated with 1 µg MMP-11 (24 hours); 11. 1.5 µg α1-antitrypsin (24 hours); 12. Marker.

Handling & Storage

Long Term Storage -80°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	Matrix metalloproteinase 11, Stromelysin-3
Application Notes	Useful 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	19.3 kDa
Purity	≥95% (SDS-PAGE)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*. Active Matrix Metalloproteinase-11 (MMP-11, Stromelysin-3) catalytic domain from human cDNA. The enzyme consists of the catalytic domain of human MMP-11 (Phe^{98}-Ser^{266}, NM_005940) with a C-terminal purification tag. MMPs lacking this domain cannot cleave native collagens; however, activity toward other targets such as gelatin, casein, or peptide substrates is unaffected. It may be an important link between obesity and cancer.
Specific Activity	Due to its unusual substrate preferences [A(A/Q)(N/A)~(L/Y)(T/V/M/R)(R/K), or G(G/A)E~LR5], MMP-11 cleaves MMP peptide substrates such as Prod. No. BML-P125, BML-P126, and BML-P132 extremely slowly (several hours yield very little product). Therefore, the activity of each lot of MMP-11 is verified by digestion of macromolecules.
UniProt ID	P24347

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