

MMP-11 active protein

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

CATALOG # AAA77048	HOST E Coli
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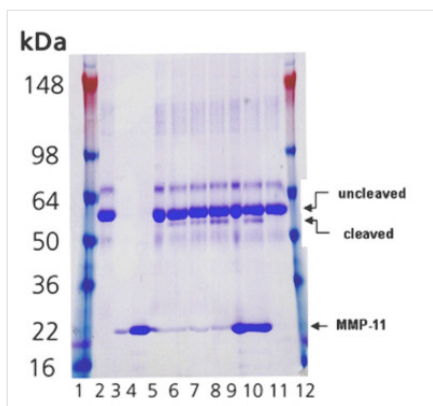
PRODUCT SYNONYMS

MMP-11; MMP-11 (catalytic domain) (human); (recombinant); MMP-11 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% (SDS-PAGE) Purified by multi-step chromatography
Form/Format	Liquid. In 50mM TRIS, 5mM CaCl ₂ , 300mM NaCl, 20uM ZnCl ₂ , 0.5% Brij-35, and 30% glycerol
Source Note	Active Matrix Metalloproteinase-11 (MMP-11, Stromelysin-3) catalytic domain from human cDNA. The enzyme consists of the catalytic domain of human MMP-11 (Phe98-Ser266) 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 extremely slowly (several hours yield very little product). Therefore, the activity of each lot of MMP-11 is verified by digestion of macromolecules
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	For long term storage, store at -80°C Shipping: Shipped on Dry Ice

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for MMP-11 active protein	MMP-11 may be a link between obesity and cancer.
Product Categories/Family for MMP-11 active protein	Cellular Analysis ; Cell Organelles & Structures ; Proteostasis ; Proteolysis & Protein Degradation

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P24347
Molecular Weight	19.3kDa
UniProt Protein Name	Stromelysin-3
UniProt Gene Name	MMP11
UniProt Synonym Gene Names	STMY3; SL-3; ST3; MMP-11
UniProt Entry Name	MMP11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/mmp-11/77048>