

Matrix Metalloproteinase-3 from Human, Recombinant

Cat. No. NATE-0861

Lot. No. (See product label)

Introduction

Description

Matrix metalloproteinase-3 (MMP-3) also known as stromelysin-1 and transin (EC 3.4.24.17) cleaves a number of substrates including cartilage proteoglycan, collagen types II, III, IV, V and IX, fibronectin, laminin, and can activate MMP 1. MMP-3 is secreted as 57 and 59 kDa proenzymes and can be activated in vitro by organomercurials (e.g., 4 aminophenylmercuric acetate, APMA) and in vivo by proteases via intermediate forms to a 45 kDa active MMP 3 enzyme. Further autolysis to a 28 kDa form can also occur. MMP-3 is thought to play an important role in pathophysiological degradation processes associated with conditions such as rheumatoid arthritis and cancer cell invasion.

Applications

Immunoblotting; Substrate Cleavage Assay; Zymography

Synonyms

Stromelysin 1; EC 3.4.24.17; matrix metalloproteinase 3; proteoglycanase; collagenase activating protein; procollagenase activator; transin; MMP-3; neutral proteoglycanase; stromelysin; collagen-activating protein

Product Information

Species

Human

Form

Lyophilized from 100 mM NaCl, 50 mM HEPES, pH 7.3.

EC Number

EC 3.4.24.17

CAS No.

79955-99-0

Molecular Weight

57 kDa

Purity

>95% by SDS-PAGE

Storage and Shipping Information

Storage

< -70°C; Avoid freeze/thaw