Creative Enzymes®

# 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