Creative Enzymes®

# microbial collagenase

*Cat. No. EXWM-4311*

*Lot. No.* (See product label)

## Introduction

***Description***

Six species of metalloendopeptidase acting on native collagen can be isolated from the medium of Clostridium histolyticum. Class I has forms α (68 kDa), β (115 kDa) and γ (79 kDa); class II has Δ (100 kDa), ε (110 kDa) and ζ (125 kDa). The two classes are immunologically crossreactive, but have significantly different sequences, and different specificities such that their actions on collagen are complementary. The enzymes also act as peptidyl-tripeptidases. Variants of the enzyme have been purified from Bacillus cereus, Empedobacter collagenolyticum, Pseudomonas marinoglutinosa, and species of Vibrio, Vibrio B-30 (ATCC 21250) and V. alginolyticus (previously Achromobacter iophagus). Also known from Streptomyces sp.. The Vibrio enzyme is the type example of peptidase family M9.

***Synonyms***

Clostridium histolyticum collagenase; clostridiopeptidase A; collagenase A; collagenase I; Achromobacter iophagus collagenase; collagenase; aspergillopeptidase C; nucleolysin; azocollase; metallocollagenase; soycollagestin; Clostridium histolyticum proteinase A; clostridiopeptidase II; MMP-8; clostridiopeptidase I; collagen peptidase; collagen protease; collagenase MMP-1; metalloproteinase-1; kollaza; matrix metalloproteinase-1; MMP-1; matrix metalloproteinase-8; matirx metalloproteinase-18; interstitial collagenase

## Product Information

***Form***

Liquid or lyophilized powder

***EC Number***

EC 3.4.24.3

***CAS No.***

9001-12-1

***Reaction***

Digestion of native collagen in the triple helical region at ┼Gly bonds. With synthetic peptides, a preference is shown for Gly at P3 and P1', Pro and Ala at P2 and P2', and hydroxyproline, Ala or Arg at P3'

***Notes***

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

## Storage and Shipping Information

***Storage***

Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.