

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 \downarrow 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.